Republic of Bulgaria
Executive Agency
Bulgarian Accreditation Service

Signatory to the EA Multilateral Agreement in this fied

ORDER

No A 489

Sofia, 31.10.2019

Pursuant to Art. 10, paragraph 1, item 2a of the Law for the National Accreditation of Conformity Assessment Bodies in connection with the change of an element of the contents of the certificate according to item 4.3.8 of the Accreditation Procedure BAS QR 2 , with respect to the open procedure reg. № 13/29 ЛИ/ПА/РО/22.02.2019, Assessment Report Reg. № 13/29 ЛИ/ПА/РО/7/В/15.07.2019, Declaration Ref. № 13/29 ЛИ/9/Р/29.07.2019 of the Conformity Assessment Body, annex to report ref. № 13/29 ЛИ/11/Р/26.08.2019 and Statement of the Accreditation Commission, ref. № 13/29 ЛИ/14/В/17.10.2019, I hereby

RE-ACCREDIT AND EXTEND THE ACCREDITATION SCOPE
of
ROAD CONSTRUCTION LABORATORY
AT PATNA KOMPANIYA EAD

Management address: 9, Lyulin Planina St, 1606 Sofia
Laboratory address - fixed and mobile office: 2140 44, Tsar Ivan Shishman St, 2140 Botevgrad

To perform testing of:

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
fixed office			
1.	Coarse aggregate for concrete	1.1. Resistance to fragmentation - Los Angeles Index	БДС EN 1097-2
		1.2. Particle size distribution	БДС EN 933-1
		1.3. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		1.4. Resistance to fragmentation	БДС EN 206/NA Annex NA.Q
		1.5. Shape index	БДС EN 933-4
		1.6. Loose bulk density	БДС EN 1097-3
		1.7. Percentage of voids	БДС EN 1097-3
		1.8. Resistance to freezing and thawing	БДС EN 1367-1
		1.9. Magnesium sulfate value (loss of mass in the Magnesium sulfate test - resistance to freezing and thawing)	БДС EN 1367-2
		1.10. Particle density: - apparent particle density - dry particle density	БДС EN 1097-6

52 A "Dr. G. M. Dimitrov" Blvd. 1797 Sofia Bulgaria
phone: +359 9766 401; fax: (+3592) 9766 415
e-mail: office@nab-bas.bg

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		- water-saturated-surface dry particle density	
		1.11. Water absorption.	БДС EN 1097-6
		1.12. Water content	БДС EN 1097-5
		1.13. Flakiness index	БДС EN 933-3
		1.14. Resistance to wear (micro-Deval)	БДС EN 1097-1
2.	Sand/fine aggregate/ for concrete	2.1. Particle size distribution	БДС EN 933-1
		2.2. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		2.3. Particle density: - apparent particle density - dry particle density - water-saturated-surface dry particle density	БДС EN 1097-6
		2.4. Water absorption	БДС EN 1097-6
		2.5. Water content	БДС EN 1097-5
		2.6. Sand equivalent	БДС EN 933-8
		2.7. Loose bulk density	БДС EN 1097-3
		2.8. Percentage of voids	БДС EN 1097-3
		2.9. Assessment of fines - Methylene blue test	БДС EN 933-9
3.	Fresh concrete	3.1. Slump-test	БДС EN 12350-2
		3.2. Density	БДС EN 12350-6
4.	Hardened concrete	4.1. Compressive strength	БДС EN 12390-3
		4.2. Resistance to direct freezing and thawing -loss of mass; -loss of compressive strength	БДС EN 206/NA Annex NA.0 T.1
		4.3. Density	БДС EN 12390-7
		4.4. In-situ compressive strength	БДС EN 13791/NA
		4.5. Rebound number	БДС EN 12504-2
	Coarse aggregates for bitumen mixes and pavements of road, airstrip and other traffic areas	5.1. Resistance to fragmentation - Los Angeles Index	БДС EN 1097-2
		5.2. Shape index	БДС EN 933-4
		5.3. Resistance to fragmentation	БДС EN 206/NA Annex NA.Q
		5.4. Resistance to freezing and thawing	БДС EN 1367-1
		5.5. Magnesium sulfate value (loss of mass in the Magnesium sulfate test - resistance to freezing and thawing)	БДС EN 1367-2
		5.6. Particle size distribution	БДС EN 933-1
		5.7. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		5.8. Determination of percentage of particles with: -crushed and broken surfaces -rounded surfaces -fully crushed and broken surfaces -fully rounded surfaces	БДС EN 933-5
		5.9. Particle density: - apparent particle density - dry particle density - particle density water-saturated -surface dry	БДС EN 1097-6
		5.10. Water absorption	БДС EN 1097-6

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		5.11. Resistance to wear (micro-Deval)	БДС EN 1097-1
		5.12. Affinity between aggregate and bitumen	БДС 11685
		5.13. Loose bulk density	БДС EN 1097-3
		5.14. Percentage of voids	БДС EN 1097-3
		5.15. Affinity between aggregate and bitumen - boiling water stripping test method	БДС EN 12697-11
		5.16. Flakiness index	БДС EN 933-3
6.	Fine aggregate for bitumen mixes and pavements of road, airstrip and other traffic areas	6.1. Sand equivalent	БДС EN 933-8
		6.2. Particle size distribution.	БДС EN 933-1
		6.3. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		6.4. Particle density: - apparent particle density - dry particle density - water-saturated - surface dry particle density	БДС EN 1097-6
		6.5. Water absorption	БДС EN 1097-6
		6.6. Assessment of fines - Methylene blue test	БДС EN 933-9
		6.7. Loose bulk density	БДС EN 1097-3
		6.8. Percentage of voids	БДС EN 1097-3
		6.9. Magnesium sulfate value (loss of mass in the Magnesium sulfate test -resistance to freezing and thawing)	БДС EN 1367-2
7.	Mineral flour for asphalt additives	7.1. Assessment of fines - Methylene blue test	БДС EN 933-9
		7.2. Particle size distribution	БДС EN 933-1
		7.3. Water content	БДС EN 1097-5
		7.4. Fine filler particle density	БДС EN 1097-7
8.	Viscous bitumen for road pavements	8.1. Penetration.	БДС EN 1426
		8.2. Softening point - Ring and Ball method	БДС EN 1427
		8.3. Solubility	БДС EN 12592
		8.4. Fraass breaking point	БДС EN 12593
		8.5. Flash point	БДС EN ISO 2592
		8.6. Resistance to hardening at 163°C: change of mass	БДС EN 12607-1
		8.7. Resistance to hardening at 163°C: retained penetration	БДС EN 12607-1 БДС EN 1426
		8.8. Resistance to hardening at 163°C: change of softening point	БДС EN 12607-1 БДС EN 1427
		8.9. Density	БДС EN 15326
9.	Asphalt paste for road-pavement joint sealing	9.1. Penetration	БДС 4551
		9.2. Ductility	БДС 4551
		9.3. Softening point.	БДС 4551
		9.4. Resistance to freezing and thawing at minus 10°C.	БДС 4551
		9.5. Thermal resistance index.	БДС 4551
		9.6. Bitumen content	БДС 4551
10.	Polymer modified bitumen	10.1. Penetration	БДС EN 1426
		10.2. Softening point - Ring and Ball method.	БДС EN 1427

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		10.3. Elastic recovery	БДС EN 13398
		10.4. Storage stability. Penetration difference between the upper and lower layer	БДС EN 13399 БДС EN 1426
		10.5. Storage stability. Softening point difference between the upper and lower layer	БДС EN 13399 БДС EN 1427
		10.6. Fraass breaking point	БДС EN 12593
		10.7. Resistance to hardening at 163°C: change of mass	БДС EN 12607-1
		10.8. Resistance to hardening at 163°C: retained penetration	БДС EN 12607-1 БДС EN 1426
		10.9. Resistance to hardening at 163°C: change of softening point	БДС EN 12607-1 БДС EN 1427
		10.10. Elastic recovery of the residue after loss of mass	БДС EN 12607-1 БДС EN 13398
		10.11. Flash point	БДС EN ISO 2592
		10.12. Density	БДС EN 15326
11	Construction soils	11.1. Resistance to fragmentation- Los Angeles Index	БДС EN 1097-2
		11.2. Magnesium sulfate value (loss of mass in the Magnesium sulfate test - resistance to freezing and thawing)	БДС EN 1367-2
		11.3. Elasticity modulus in round-plate loading.	БДС 15130
		11.4. Deformation modulus in round-plate loading	БДС 15130
		11.5. E2/E1 deformation modulus ratio in round-plate loading	БДС 15130
		11.6. Maximum density of the frame and optimum water content of the soils, according to the PROCTOR method - maximum density - optimum water content	БДС 17146
		11.7. In-situ soil density according to the sand replacement method	AASHTO T 191
		11.8. Sand equivalent	БДС EN 933-8
		11.9. Resistance to fragmentation	БДС EN 206/NA Annex NA.Q
		11.10. Particle size distribution	БДС EN 933-1
		11.11. Loose bulk density	БДС EN 1097-3
		11.12. Percentage of voids	БДС EN 1097-3
		11.13. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		11.14. Shape index	БДС EN 933-4
		11.15. Flakiness index	БДС EN 933-3
		11.16. Resistance to wear (micro-Deval)	БДС EN 1097-1
		11.17. Maximum bulk density of the frame at optimum water content: - maximum bulk density - optimum water content	БДС EN 13286-2
		11.18. California bearing ratio - CBR	БДС EN 13286-47
		11.19. Water content	AASHTO T 191
		11.20. Compaction level	AASHTO T 191

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		11.21. Determination of percentage of particles with: -crushed and broken surfaces - rounded surfaces -fully crushed and broken surfaces -fully rounded surfaces	БДС EN 933-5
		11.22. Particle density: - apparent particle density - dry particle density - particle density water-saturated-surface dry	БДС EN 1097-6
		11.23. Water absorption	БДС EN 1097-6
		11.24. Yield strength	* Ordinance No. РД-02-20-2 Annex No.15
		11.25. Plastic limit	*Ordinance No. РД-02-20-2. Annex No. 16
		11.26. Plasticity indicator	* Ordinance No. РД-02-20-2 Annex No. 16
		11.27. California bearing ratio (CBR) of the soil	* Ordinance No. РД-02-20-2. Annex No. 17
		11.28. Compressive strength	БДС EN 13286-41
		11.29. Water content	БДС EN ISO 17892-1
		11.30. Particle density	БДС EN ISO 17892-3 т. 5.1
		11.31. Inequigranularity index	БДС EN 13242+A1/NA
12.	Bitumen emulsion	12.1. Appearance	БДС EN 1425
		12.2. Particle polarity	БДС EN 1430
		12.3. Binder residue after distillation	БДС EN 1431
		12.4. Efflux time /viscosity/	БДС EN 12846-1
		12.5. Residue on 0,5 mm sieve	БДС EN 1429
		12.6. Storage stability	БДС EN 1429
		12.7. Adhesity with limestone material	БДС EN 13614
		12.8. pH	БДС EN 12850
		12.9. Properties of the residue after evaporation/distillation: - penetration; - softening point - Ring and Ball method; - elastic recovery.	БДС EN 1426; БДС EN 1427; БДС EN 13398
		12.10 Mixing stability with cement	БДС EN 12848
13.	Concrete chutes for road embankment draining	13.1. Geometrical characteristics.	БДС 11483
14.	Bituminous mixtures	14.1. Particle size distribution	БДС EN 12697-2
		14.2. Soluble binder content	БДС EN 12697-1
		14.3. Maximum density	БДС EN 12697-5
		14.4. Void characteristics	БДС EN 12697-8
		14.5. Water sensitivity of bituminous specimens - indirect tensile strength	БДС EN 12697-12
		14.6. Bulk density of bituminous specimens	БДС EN 12697-6
		14.7. Dimensions of a bituminous specimen	БДС EN 12697-29
		14.8. Binder drainage - glass-vessel method	БДС EN 12697-18

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		14.9. Marshal stability (test)	БДС EN 12697-34
		14.10. Marshall flow	БДС EN 12697-34
		14.11. Indirect tensile strength	БДС EN 12697-23
15.	Compacted bituminous layers	15.1. Thickness of a bituminous pavement	БДС EN 12697-36
		15.2. Level of compaction	БДС EN 12697-9
		15.3. Irregularity of pavement courses	БДС EN 13036-7
		15.4. Bulk density of bituminous specimens (core)	БДС EN 12697-6
16.	Cut-back and fluxed bituminous binders	16.1. Efflux time /viscosity/	БДС EN 12846-2
		16.2. Solubility	БДС EN 12592
		16.3. Distillation characteristics: - general cut at 360°C - % of the general cut, distillation fraction at 225°C - % of the general cut, distillation fraction at 260°C - % of the general cut, distillation fraction at 315°C	БДС EN 13358
		16.4. Penetration of the reconstructed and stabilized binder	БДС EN 13074-1 БДС EN 13074-2 БДС EN 1426
		16.5. Point of softening of the reconstructed and stabilized binder	БДС EN 13074-1 БДС EN 13074-2 БДС EN 1427
17.	Waterproofing of concrete bridge decks and other concrete surfaces trafficable by vehicles	17.1. Bond strength	БДС EN 13596
18.	Crushed stone for railway lines	18.1. Particle size distribution	БДС EN 933-1
		18.2. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		18.3 Flakiness index	БДС EN 933-3
		18.4. Shape index	БДС EN 933-4
		18.5. Resistance to wear (micro-Deval)	БДС EN 1097-1
		18.6. Resistance to fragmentation - Los Angeles Index	БДС EN 1097-2
		18.7. Particle density of coarse aggregate, saturated to permanent mass	БДС EN 1097-6, Annex B
		18.8. Water absorption of coarse aggregate, saturated to permanent mass	БДС EN 1097-6, Annex B
		18.9. Resistance to freezing and thawing	БДС EN 1367-1; БДС EN 13450, Annex F
		18.10 Loss of strength after determination of the resistance to freezing and thawing	БДС EN 1367-1, Annex B
		18.11. Magnesium sulfate value (loss of mass in the Magnesium sulfate test - resistance to freezing and thawing)	БДС EN 1367-2; БДС EN 13450, Annex G
mobile office			
1.	Concrete additives	1.1. Particle size distribution	БДС EN 933-1
		1.2. Content of fine fraction, passing through	БДС EN 933-1

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		a 0,063 mm sieve	
		1.3. Water content	БДС EN 1097-5
		1.4 Flakiness index	БДС EN 933-3
		1.5. Shape index	БДС EN 933-4
		1.6. Sand equivalent	БДС EN 933-8
2.	Aggregates and bitumen mixes and pavements of road, airstrip and other traffic areas	2.1. Particle size distribution	БДС EN 933-1
		2.2. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		2.3. Water content	БДС EN 1097-5
		2.4 Flakiness index	БДС EN 933-3
		2.5. Shape index	БДС EN 933-4
		2.6. Sand equivalent	БДС EN 933-8
3.	Mineral flour for asphalt additives	3.1. Particle size distribution	БДС EN 933-1
		3.2. Assessment of fines - Methylene blue test	БДС EN 933-9
4.	Bitumen for road pavements	4.1. Penetration	БДС EN 1426
		4.2. Softening point - Ring and Ball method.	БДС EN 1427
		4.3. Elastic recovery	БДС EN 13398
		4.4. Tensile properties of modified bitumen by the force ductility method	БДС EN 13589
5.	Bituminous mixtures	5.1. Soluble binder content	БДС EN 12697-1
		5.2. Particle size distribution	БДС EN 12697-2
		5.3. Maximum density	БДС EN 12697-5
		5.4. Bulk density of bituminous specimens	БДС EN 12697-6
		5.5. Void characteristics	БДС EN 12697-8
		5.6. dimensions of a bituminous specimen	БДС EN 12697-29
		5.7. Marshal stability (test)	БДС EN 12697-34
		5.8. Marshall flow	БДС EN 12697-34
6.	Compacted bituminous layers	6.1. Bulk density of bituminous specimens(core)	БДС EN 12697-6
		6.2. Level of compaction	БДС EN 12697-9
		6.3. Thickness of a bituminous pavement	БДС EN 12697-36
7.	Fresh concrete	7.1. Slump-test	БДС EN 12350-2
8.	Construction soils	8.1. Elasticity modulus in round-plate loading.	БДС 15130
		8.2. Deformation modulus in round-plate loading.	БДС 15130
		8.3. E2/E1 deformation modulus ratio in round-plate loading	БДС 15130
		8.4. In-situ soil density according to the sand replacement method.	AASHTO T 191
		8.5. Water content	AASHTO T 191
		8.6. Compaction level	AASHTO T 191
		8.7. Maximum bulk density of the frame at optimum water content: - maximum bulk density - optimum water content	БДС EN 13286-2 БДС 17146
		8.8. Particle size distribution	БДС EN 933-1
		8.9. Content of fine fraction, passing through a 0,063 mm sieve	БДС EN 933-1
		8.10. Flakiness index	БДС EN 933-3
		8.11. Shape index	БДС EN 933-4

№	Tested Products	Type of test/Characteristic	Test methods (standardized / validated)
1	2	3	4
		8.12. Sand equivalent	БДС EN 933-8
		8.13. Determination of percentage of particles with: -crushed and broken surfaces - rounded surfaces -fully crushed and broken surfaces -fully rounded surfaces	БДС EN 933-5
		8.14. Yield strength	* Ordinance No. РД-02-20-2. Annex No. 15
		8.15. Plastic limit	* Ordinance No. РД-02-20-2 Annex No. 16
		8.16. Plasticity indicator	* Ordinance No. РД-02-20-2. Annex No. 16
		8.17. California bearing ratio - CBR	БДС EN 13286-47
		8.18. Particle density: -apparent particle density -dry particle density -water-saturated-surface dry particle density	БДС EN 1097-6
		8.19. Water content	БДС EN 1097-5
		8.20. Water content	БДС EN ISO 17892-1
		8.21. Inequigranularity index	БДС EN 13242+ A1/NA

To perform sampling of:

No.	Product name	Sampling methods (standardized/ validated)
1	2	3
	fixed office	
1.	Coarse aggregate for concrete; Sand /fine aggregate/ for concrete; Coarse aggregates for bitumen mixes and pavements of road, airstrip and other traffic areas; Fine aggregate for bitumen mixes and pavements of road, airstrip and other traffic areas; Mineral flour for asphalt additives; Construction soils and Crushed stone for railway lines.	БДС EN 932-1
2.	Viscous bitumen for road pavements, polymer modified bitumen, bitumen emulsion; Cut-back and fluxed bituminous binders.	БДС EN 58
3.	Bituminous mixtures and Compacted bituminous layers.	БДС EN 12697-27
4.	Fresh concrete.	БДС EN 12350-1
	mobile office	
1.	Concrete additives; Aggregates and bitumen mixes and pavements of road, airstrip and other traffic areas; Mineral flour for asphalt additives; Construction soils	БДС EN 932-1
2.	Bitumen for road pavements.	БДС EN 58
3.	Bituminous mixtures and Compacted bituminous layers.	БДС EN 12697-27
4.	Fresh concrete.	БДС EN 12350-1

Reference:
ORDINANCE NO. РД-02-20-2 of 28 August 2018 for road design

I HEREBY ORDER

The issuance of Certificate of accreditation reg. № 29 ЛИ/31.10.2019, valid until 31.10.2023 accompanied by this Order, as an enclosure, forming integral part thereof.

The accreditation certificate with its enclosure to be received by the General Manager of Patna Kompaniya EAD, the head of the Road Construction Laboratory or his authorized representative at the office of the EA BAS.

Upon receiving the issued certificate and the enclosure, the accredited body shall return to the EA BAS the original Certificate of accreditation per. № 29 ЛИ/13.06.2018, expiry date: 30.10.2019 and enclosure - accreditation order № А 206/13.06.2018, forming an integral part thereof.

This Order to be notified to Patna Kompaniya EAD within 3 (three) days of its issuance.

Eng. Irena Borislavova

Executive Director of
Executive Agency "Bulgarian Accreditation Service"