

AMENDMENT No. 4

to the Tender Documents

ref: Tendering No. RSP/2014/OT/W8/03

ROAD SECTOR PROGRAM

Road Rehabilitation Works under one Contract

- **Contract RSPSP/W8/03:**

Rehabilitation of R9 Soroca - Arionesti Road, km 0+000-km 39+950”

Issued on August 12, 2015

General

The following amendment articles are applicable to Contract: “Rehabilitation of R9 Soroca - Arionesti Road:

- **RSP/W8/03:**
“Rehabilitation of R9 Soroca - Arionesti Road, km 0+000 - km 39+950”

1. Article

Tender Documents, Part 1: Instructions to Tenderers, Section III: Evaluation and Qualification Criteria, Art. 32 Qualification of the Tenderer; Table 2.4.1. Experience has been revised as follows:

“The Tenderer shall demonstrate that it has successful experience as prime contractor in the execution of at least **2 (two) projects** of a nature and complexity comparable to the proposed contract within the last **5 (five) years**, each of the projects should have a value of:

- at least **EUR 14million** equivalent,

in addition, the following specific experience:

- Average annual production and laying asphalt concrete over the last five (5) years at a rate not less than: **40 000 tonnes/year**;
- Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than: **50000 tonnes/year in at least one year**;
- Cold recycling of asphalt pavement on a single contract executed within the last three (3) years at a rate not less than: **58000 tonnes/year in at least one year;**”

2. Article

Tender Documents, Part 1: Instructions to Tenderers, Section III: Evaluation and Qualification Criteria, 2. QUALIFICATION TABLES, 2.4 Experience, Point B and C have been revised as follows:

- B. *Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than **50000 tonnes/year year in at least one year***
- C. *Cold recycling of asphalt pavement on a single contract executed within the last three (3) years at a rate not less than **58000 tonnes/year in at least one year***

3. Article

Tender Documents, Part 1: Instructions to Tenderers, Section IV: Tender Forms, the text in Form Fin II has been revised as follows:

“The information supplied should be the Annual Turnover of the Tenderer or each member of a JVCA in terms of the amounts billed to clients for each year for work in progress or completed, converted to EUROS at the rate of exchange at the at the middle of each year reported, as set by the central bank of the country of Currency or similar institution.”

4. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 006 [MISCELLANEOUS REQUIREMENTS], Paragraph 006.03 [PROTECTION AND DIVERSION OF SERVICES], first and second paragraphs have been revised as follows:

“Wherever an existing overhead or underground installation carrying live services (gas, water, electric power, telephone, etc.) is to be diverted in order to perform the Works, the Contractor shall carry out this work in accordance with the prior approvals obtained by the Employer from the owners regarding diversion/removal of services shown on the Drawings. Whenever during the execution of the Works the Contractor locates service installations which require diversion/removal and which are not shown on the drawings, he shall immediately notify the Engineer. The Engineer will liaise with the Employer and owner of the service to obtain the necessary approvals.”

5. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 012 [AGGREGATE, FILLER], Paragraph 012.02 [CRUSHED STONE FOR ROAD BASE, BINDER COURSE AND WEARING COURSE] reference to SM GOST 25607-94 has been revised to SM GOST 25607-2010.

6. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 014 [OTHER MATERIALS], Paragraph 014.03 [GEOTEXTILE] has been revised as follows:

“Geotextiles shall be in accordance with Chapter 902.”

7. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, APPENDIX TO GENERAL REQUIREMENTS SPECIFICATIONS, LIST OF STANDARDS INCORPORATED BY REFERENCE, No. 92, reference to GOST 22733-2002 has been revised to SM GOST 22733 – 2009 and Nos. 177, 178 and 179 have been added as follows:

177	CP.D.02.12 – 2014	Guidelines for rehabilitation of pavement and foundations with cold recycling method
		Recomandari metodice pentru reabilitarea imbracamintilor rutiere si fundatiilor prin metoda de reciclare la rece
178	CP.D.02.17 – 2012	Strengthening road shoulders
		Cosolidarea acostamentelor drumurilor
179	NCM D.02.01:2015	Principles of design. Public road design
		Principii de proiectare. Proiectarea drumurilor publice

8. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 103 [DEMOLITION], Paragraph 103.01 [INTRODUCTION] has been revised as follows:

“This chapter deals with the removal of traffic signs, service poles, fences, kerbs, guard rails, kilometre posts, foundation to paved area and such like items and their storage for future use and/or their burning or disposal by other means”.

9. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 103 [DEMOLITION], Paragraph 103.06 [WORKS ACCEPTANCE], Item No. 10306 has been revised and unit of measurement has been changed for items. Nos. 10309 and 10309A as follows:

10306	Removal and reuse of suitable material in foundation to paved areas	Cubic Metre
10309	Fill existing wells	Provisional Sum
10309A	Drill new wells	Provisional Sum

10. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARHWORKS], Paragraph 201.03 [MATERIAL], has been revised as follows:

“The material shall comply with SNiP 2.05.02-85.

The materials for the embankment construction shall be free from “Unsuitable materials”. Unsuitable material shall include material from swamps, marshes and bogs, peat, logs, stumps, roots and other perishable or combustible material and highly organic clay and silt material having a liquid limit above 65 %, or more than 80 % passing the 75 microns sieves to BS 410 or such other material as the Engineer may decide.

All fill material for embankment construction, except the 300 mm below formation, shall have a CBR of not less than 6% measured after a 4-day soak on a laboratory mix compacted to a dry density of 95 % MDD (AASHTO T180), a swell of less than 1 % and a Plasticity Index of less than 17 and shall be compacted in accordance with NCM D.02.01:2015 Chapter 7.

The fill material in the layer 300 mm below formation (subgrade) in embankments shall have a CBR of not less than 10% measured after a 4-day soak on a laboratory mix compacted to a dry density of 95 % MDD (AASHTO T180), a swell of less than 1 % and a Plasticity Index of less than 17 and shall be compacted in accordance with NCM D.02.01:2015 Chapter 7.

The materials for the embankment construction shall not contain oversize materials larger than 100 mm, and for the 300 mm layer below formation level shall not contain oversize larger than 50 mm.

The selected fill materials for shoulder construction shall have less than 30% passing the 75 micron sieve to BS 410, shall have a Plasticity Index less than 17 and shall have a soaked CBR of not less than 15%, measured after a 4-day soak on a laboratory mix compacted to a dry density of 95 % MDD and shall be compacted to 98% MDD.”

11. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARHWORKS], Paragraph 201.09 [ROADBED PREPARATION], points a) and b) have been revised as follows:

“a) Embankments on existing slopes less than 3:1

The cleared area will be scarified or loosened to a 150 mm depth with a plough or a scarifier and compacted in accordance with NCM D.02.01:2015 Chapter 7 to a minimum depth of 150 mm.

b) Embankment on an existing slope steeper than 3:1

Cut horizontal benches in the existing slope to a sufficient width to accommodate placing and compacting operations and necessary equipment. Bench the slope as the embankment is placed and compacted in layers. Begin each bench at the intersection of the original ground and the vertical cut of the previous bench. Benches need be no deeper than two lifts of fill material; they may be cut as the work of filling proceeds and the material arising from benches may be blended in with the fill material as work progresses. No measurement or payment will be made for the work of benching which shall be considered as an ancillary work to the construction of embankments. The in-situ treatment of the roadbed on which the embankment will be constructed shall be compacted in accordance with NCM D.02.01:2015 Chapter 7 to a minimum depth of 150 mm.”

12. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARTHWORKS], Paragraph 201.10 [CONSTRUCTION OF EMBANKMENTS], third paragraph has been revised as follows:

“In constructing embankments, soil shall be placed and compacted in layers of optimum thicknesses of 150 mm; unless as a result of site compaction trials, the Contractor has satisfied the Engineer that his compaction plant is capable of consistently achieving the specified densities at a greater depth, but in no case shall this depth exceed 250 mm. The embankment construction shall be compacted in accordance with NCM D.02.01:2015 Chapter 7 with a field moisture content +/-2% of the OMC.”

13. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARTHWORKS], Paragraph 201.11 [COMPACTION], reference to “SM GOST 22733-77” has been revised to “SM GOST 22733-2009”.

14. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARTHWORKS], Paragraph 201.13 [FORMATION OF SUBGRADES], second paragraph has been revised as follows:

“The subgrade shall be compacted in two layers in accordance with NCM D.02.01:2015 Chapter 7. The materials for the subgrade layers shall have a CBR of not less than 6% measured after a 4-day soak on a laboratory mix compacted to a dry density of 95 % MDD (AASHTO T180), a swell of less than 1 % and a Plasticity Index of less than 17. Each subgrade layer of pavement shall be finished to a surface profile parallel to the finished surface of the pavement shown on the drawings within the level tolerance of +0 / -35mm. Where the surface is within this tolerance but lower than the design level the Contractor may either raise the level by scarifying, adding extra material, mixing and recompacting, or may make good the defect by the use of extra material in the next course at his own cost. If the surface is out of tolerance it shall be made good by either grading off the excess material or by scarifying, mixing and adding material as appropriate, recompaction shall be carried out in either case.”

15. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARHWORKS], Paragraph 201.17.04 [PROTECTION LAYERS CONSTRUCTION], fifth paragraph has been revised as follows:

“Place slope protection aggregate on the geotextile starting at the toe of the slope and proceed upward. The protection aggregate shall be laid compacted in layers in accordance with NCM D.02.01:2015 Chapter 7.”

16. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARHWORKS],

Paragraph 201.18 [ACCEPTANCE OF WORK], point b) Excavation, the text “*(The removal of paved areas and foundations to paved areas is covered in Chapter 310)*” has been revised to: “*(The removal of paved areas is covered in Chapter 302 and foundations to paved areas is covered in Chapter 103)*”.

And Items Nos. 20101 and 20101A have been revised as follows:

20101	Load, place and compact in road embankment, incl haulage and benching of embankment slope for widen the existing road embankment (material from cut to fill).	Cubic Metre
20101A	Provide suitable material for fill in embankment and access roads adjustments, incl haulage and compaction	Cubic Metre

17. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 202 [THE EXECUTION OF DITCHES], Paragraph 202.03 [GENERAL], reference to “SM GOST 22733-77” has been revised to “SM GOST 22733-2009”.

18. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 203 [EXCAVATION AND BACKFILL FOR STRUCTURES], Paragraph 203.04 [GENERALITIES], reference to “SM GOST 22733-77” has been revised to “SM GOST 22733-2009”.

19. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 203 [EXCAVATION AND BACKFILL FOR STRUCTURES], Paragraph 203.05 [PREPARATION OF FOUNDATION WORKS], reference to “SM GOST 22733-77” has been revised to “SM GOST 22733-2009”.

20. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 301 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.01 [INTRODUCTION], reference to “SM GOST 9128-84” has been revised to “SM GOST 9128-2009”.

21. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 301 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.02 [MATERIALS], reference to Crushed stone has been revised and for bituminous emulsion has been added as follows:

Crushed Stone	SM GOST 8267-93
Bituminous emulsion	GOST 18659-81

22. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 301 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.05 [MILLING OF THE PAVEMENT], the sentence has been added as follows:

“The minimum depth of milling shall be 10cm of the existing pavement.”

23. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 301 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.07 [DISTRIBUTION AND COMPACTION OF THE MIXTURE], point a), the sentences have been added:

“In the event the required thickness is greater than 300mm the mixture shall be placed in two layers. The minimum thickness of the layer is 150mm.”

And point e) has been revised as follows:

“The density of the cold recycling layer must be no less than 98 % of the density obtained during field trial compaction, as approved by the Engineer.”

24. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 300 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.08 [CURING OF THE REGULATING LAYER] has been revised as follows:

“301.08 CURING OF THE COLD RECYCLING LAYER

a) After the evaporation of free moisture content (approximately in 2 hours after completion of compaction) the road may be open for traffic. Speed limit of vehicles prior to placing the next layer shall not exceed 40 km/h.

b) The next layer shall not be placed earlier than 4 - 5 hours after placement of the initial cold recycling layer if during the process of preparation of the cold recycling layer cement was added. Prior to the next cold recycling layer a tack-coat (chapter 3.07) shall be applied.

c) If the next cold recycling layer is postponed for more than 48 hours then the initial cold recycling layer surface shall be treated with bituminous emulsion at a rate of 1.2 – 1.4 l/m², followed by the spreading of fine material of sizes between 3 - 8 mm at a rate of 8 - 12 kg/m², with a further rolling of the surface.”

25. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 300 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.10 [ACCEPTANCE], has been revised as follows:

“Acceptance of the cold recycling layer shall be carried out in compliance with the requirements of SNiP 3.06.03-85 and as instructed by the Engineer. The properties of the cold recycling layer must be compliant with the requirements of SM STB 1033-2008 for porous asphalt concrete. The degree of compaction shall be determined on the basis of core testing. Minimum of 6 cores should be taken from each 5000 m² of laid pavement, but no less than 6 during a working day. For accelerated control, the strength of the samples is checked after 24 hours at a temperature of 20 °C by one-axial compression. The norms for the strength at 24 hours are established during the design of the mix.”

26. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 300 [COLD RECYCLING OF THE ASPHALT CONCRETE PAVEMENTS], Paragraph 301.11 [ADJUSTMENTS FOR DENSITY], has been deleted, measurement has been revised and Items Nos. 30103, 30105 and 30107 has been revised as follows:

“Measurement

The cold recycling layer is measured in cubic meters, cement, bituminous emulsion and additives are included.”

30103	Cold recycling of the asphalt concrete pavement. Mixing in of new aggregates and stabilization with cement. Regulation to required transverse and longitudinal profile. Compaction.	Cubic Metre
	Cement	included
	Bituminous Emulsion	included
	Additives	included

27. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302 [ASPHALT PAVEMENT MILLING], Paragraph 302.04 [ASPHALT PAVEMENT MILLING], Measurement has been revised as follows:

“Measurement

The milling of the existing asphalt pavement shall be measured either in cubic meters to any depth or in square meters to depths as specified in the Bill of Quantities.”

28. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303 [WIDENING AND RECONSTRUCTION OF THE EXISTING CARRIAGEWAY AND PROVISION OF NEW PAVEMENT], Paragraph 303.02 [MATERIALS], reference to “SM GOST 11955-82” for Bituminous primer has been revised to “SM GOST 22245-90” and for Ballast from “SM GOST 8736-93” to “SM GOST 8736-2010”.

29. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303 [WIDENING AND RECONSTRUCTION OF THE EXISTING CARRIAGEWAY AND PROVISION OF NEW PAVEMENT], Paragraph 303.04 [CONSTRUCTION PROCEDURE], reference to “SM GOST 25607-93” has been revised to “SM GOST 25607-2010” and first paragraph has been revised as follows:

“The whole area of new pavement construction shall be excavated to the required subgrade level and the subgrade compacted in accordance with NCM D.02.01:2015 Chapter 7. Subgrade level after compaction shall be correct for level in all areas within a tolerance of +0 to -35 mm.”

30. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 304 [PRIME AND TACK COATS FOR SUPPORTING SURFACE], Paragraph 304.02 [MATERIALS], reference to “SM GOST 11955-82” for Cut-back bitumen has been revised to “SM GOST 22245-90”.

31. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305 [ASPHALT CONCRETE FOR PAVEMENTS], Paragraph 305.08 [ASPHALT PAVEMENT MILLING], has been revised as follows:

“Asphalt mixes to be used in the Works shall be designed by the Contractor in accordance with the requirements and procedures of SM STB 1033-2008. The Contractor shall allow the Engineer to participate in the mix design process and shall keep him fully informed throughout the procedure. When a satisfactory mix design has been prepared it shall be forwarded to the Engineer with all supporting test documentation for approval. Before approving a mix the Engineer shall confer with the Employer’s laboratory that shall be satisfied that the mix is appropriate for conditions in Moldova.

Following approval, the mix as used in the field shall comply with the requirements of SM STB 1033-2008 and with the tolerances given below.

Throughout the course of the Works, asphalt shall be sampled and tested on a regular basis. Samples will be drawn from the mixing plant and/or from the finisher as directed by the Engineer at a frequency of not less than:

- At least one sample for each 400 tons of mixture for regulating and binder course materials and

- At least one sample for each 200 tons of mixture for wearing course materials.

These samples shall be tested in the accordance with the requirements of SM-STB-133-2008.

The percentages of aggregate grading as determined by testing shall not vary from the approved mix design values by more than:

- +/- 2% aggregate sizes > 15 mm
- +/- 1% aggregate sizes > 5 mm
- +/- 0.5% aggregate sizes < 5 mm

Bitumen content as determined by testing shall not vary from the approved design mix in binder courses and regulating asphalt by more than +/-0.3% and in wearing courses by more than +/-0.2%.

If tests show that the mix being produced does not comply with these requirements all asphalt work will cease immediately the problem is noted and no further asphalt will be laid until, either the causes of the fault with the existing mix have been established and rectified or until a new mix design has been prepared and approved following the procedures above.

The thickness and the density of the asphalt course being laid will be checked by coring. At least one 100 mm diameter twin core for each 800 m² of asphalt mix laid shall be tested for density, thickness and voids.

With an absolute minimum of 3 cores being taken for any day's work. Cores will be checked for thickness of layer as the average of three uniformly spaced thickness measurements by caliper round the circumference of the core. The compacted asphalt in the field shall achieve a density in accordance with Chapter 305.14.

The grading and specific gravity of the cold aggregates will be tested as directed by the Engineer but normally not less than once per day”.

32. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305 [ASPHALT CONCRETE FOR PAVEMENTS], Paragraph 305.14 [COMPACTION] has been revised as follows:

“The compaction of the mixture will be done according to SNiP 3.06.03-85.

The Contractor shall provide sufficient rollers of adequate size and weight to achieve the specified compaction. Prior to commencing the laying of bituminous mixes in the permanent works the Contractor shall carry out site trials to demonstrate the adequacy of his plant and to determine the optimum method of use and sequence of operation of the rollers.

Rolling shall be carried out parallel to the axis of the road with transverse movement of rollers being accomplished by gradual diagonal rolls not varying by more than 15 degrees from the axial direction. Sharp turning movements of rollers on fresh asphalt shall not be permitted. The Contractor shall be responsible the repair of any and all damage which may result from the improper or careless use of rollers. The only exception to the use of rollers in an axial direction shall be when the need arises to compact transverse joints. In these cases the rollers shall be turned off the asphalt surface and shall be used at right angles to the axis of the road. All exposed edges of the lane/layer shall be adequately supported by the use of suitable timbers so that the

roller(s) may move onto and off the asphalt without deforming the edges. Rolling shall be commenced before the mix temperature falls below 120 °C and final compaction shall be accomplished before the temperature falls below 80 °C. No further rolling will be allowed if the temperature falls below 80 °C. In general the pattern of rolling shall be started from edge/down side and proceed towards center/upper line. In case of joint rolling should commenced first at the joint.

The compacted asphalt in the field shall achieve a coefficient of compaction in accordance with SNIP 3.06.03-84 and SM STB 1115-2008.e

Coefficient of compaction shall be determined comparing the density of the core with the density of the remolded sample and with the average density of the laboratory samples taken on the same day. If any of the above coefficients of compaction are less than requirement in SNiP 3.06-03-84 and SM-STB 1115-2008 then that area of pavement shall not be accepted”.

33. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305 [ASPHALT CONCRETE FOR PAVEMENTS], Paragraph 305.17 [ACCEPTANCE PROCEDURES], Item No. 30503 has been revised and 30507 has been replaced to No. 90201 as follows:

30503	Binder course of asphalt concrete SKAg-I - Thickness 60 mm	Square Metre
90201	Geocomposite Type 1 (SAMI)	Square Metre

34. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 306 [REMOVING, RESTORING AND REPAIRING THE SHOULDERS], Paragraph 306.02 [MATERIALS], select fill and crushed stone, gravel, sand mixture for the shoulder surface have been revised as follows:

<ul style="list-style-type: none"> Select fill 	<ul style="list-style-type: none"> Select fill with PI <17 and CBR > 15%
Crushed stone, gravel, sand mixture for the shoulder surface	SM GOST 25607 - 2010

35. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 306 [REMOVING, RESTORING AND REPAIRING THE SHOULDERS], Paragraph 306.04 [SURFACING OF THE SHOULDERS WITH ASPHALT CONCRETE], reference to Chapter 306 is revised to Chapter 305.

36. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 306 [REMOVING, RESTORING AND REPAIRING THE SHOULDERS], Paragraph 306.05 [ACCEPTANCE OF WORKS], Payment, reference to Chapter 306 is revised to Chapter 305.

37. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 306 [REMOVING, RESTORING AND REPAIRING THE SHOULDERS], Paragraph 306.05 [ACCEPTANCE OF WORKS], Payment, reference to Chapter 306 is revised to Chapter 305.

38. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 307 [VARIOUS ASPHALT WORKS], Paragraph 307.07 [THE COMPACTION], the description has been revised as follows:

“The compacted asphalt in the field shall achieve a coefficient of compaction in accordance with SNIP 3.06.03-84 and SM STB 1115-2008”.

39. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 307 [VARIOUS ASPHALT WORKS], Paragraph 307.09 [WORKS ACCEPTANCE], the measurement has been revised as follows:

“Measurements

The work is measured in Square meter”.

And Item No. 30701 has been revised as follows:

30701	Fine grained dense asphalt	Square meter
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40. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, new Chapter 310 [MEASUREMENT OF PAVEMENT ROUGHNESS] has been added.

41. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, concrete classes have been revised as follows:

- C 8/10 to B10
- C 20/25 to B25
- C 25/30 to B30
- C 30/37 to B40

42. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 507 [GABIONS AND MATRESSES], Paragraph 507.05 [CLEANING AND MAINTENANCE], Item No. 50704 has been replaced by No. 90202:

90202	Geotextile Type 1	Square Metre
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43. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 509 [DRAINS,

MANHOLES, EXIT GULLY], Paragraph 509.02 [MATERIALS], reference to “SM GOST 25607-92” for Gravel mix with sand has been revised to “SM GOST 25607-2010”.

44. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 703 [SIDE WALKS], Paragraph 703.03 [CONSTRUCTION OF SIDE WALK], reference to Chapter 311 is revised to Chapter 307.

45. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 703 [SIDE WALKS], Paragraph 703.05 [WORKS ACCEPTANCE], reference to Sub – Clause 002.04 is revised to Clause 002. Description of measurement has been revised as follows:

“Measurement

Works relevant to construction of new sidewalks and asphalt concrete surfacing will be measured (at design thickness of pavement courses or by actual thickness accepted, whichever is the lower) by area in accordance with the units designated in the bill item. Works relating to construction of stairways will be measured by length of stairway.”

46. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 901 [EARTHWORK], Paragraph 901.04 [EXCAVATION IN BORROW PITS], has been revised as follows:

“The material required for the construction of replaced road embankment shall be supplied by the Contractor from borrow pits, in accordance with the provisions of Chapter 201.”

47. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 901 [EARTHWORK], Paragraph 901.06 [EMBANKMENT CONSTRUCTION], the text “*New embankment to replace that removed beneath the existing road shall be formed entirely from borrow material with CBR > 6%.*” has been deleted:

48. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 901 [EARTHWORK], Paragraph 901.010 [SUBGRADE], Items Nos. 90103, 90104 and 90105 have been revised as follows:

90103	Provide material for new road embankment	Cubic meter
90104	Construct road embankments with material including geotextile layers	Cubic meter
90105	Compaction of upper surface of road embankment after excavation and prior to placement of material	Square meter

49. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902 [GEOTEXTILE FABRICS], Paragraph 902.04 [ACCEPTANCE OF WORKS], payment items No. 90201, 90202, 90203, 90204 and 90205 have been revised as follows:

No.	Item	Unit of Measure
90201	Geocomposite Type 1 (SAMI)	Square meter
90202	Geotextile Type 1	Square meter
90203	Geotextile Type 2	Square meter
90204	Geocells	Square meter
90205	Polumat Mattress	Square meter

50. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 905 [FILTER DRAIN, MANHOLES, EXIT GULLY], Paragraph 905.02 [MATERIALS], reference to “SM GOST 25607-94” for Gravel mix with sand has been revised to “SM GOST 25607-2010”.

51. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 100 [PREPARATORY WORKS], Items Nos. 10309 and 10309A, unit of measurement and quantity has been revised as follows:

Item No.	Item description	Unit of measure	Quantity	Total cost, €
10309	Fill existing wells	Provisional Sum	1	1 000,00
10309A	Drill new wells	Provisional Sum	1	10 000,00

52. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], Items Nos. 20101, 20101A, 20102A and 20103 have been revised and Item No. 20102 has been added as follows:

20101	Load, place and compact road embankment, incl haulage and benching of embankment slope for widen the existing road embankment (material from cut to fill).	Cu.m. / m ³	98 225,00
20101A	Provide suitable material for fill in embankment and access roads adjustments, incl haulage and compaction	Cu.m. / m ³	2 325,00
20102	Excavate material in road area (cut to fill), incl temporary storage at site for re-use.	Cu.m./ m ³	98 225,00
20102A	Excavate after removal of bituminous surface all type of material in road area and access roads adjustments to any depth as directed by the Engineer (cut to spoil) and dispose in contractors dump site.	Cu.m. / m ³	12 330,00
20103	Select fill to shoulders (shoulder fill)	Cu.m. / m ³	12 330,00

53. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Item No. 30103, the quantity has been revised as follows:

30103	Cold recycling of the asphalt concrete pavement. Mixing in of new aggregates and stabilization with cement. Regulation to required transverse and longitudinal profile. Compaction.	Cu.m. / m ³	32 800,00
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54. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Items Nos. 30204, 30205, 30206 and 30207 have been deleted and Item. No. 30201 has been revised as follows:

30201	Asphalt Concrete Pavement Milling to any depth and re-use or disposal as instructed by the Engineer	Cu.m.	7 500,00
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55. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Item No. 30302 has been renumbered 30303, Item 30302.1 has been renumbered 30303.1, Item 30303 has been renumbered 30302, Item 30303.1 has been renumbered 30302.1, Item 30303.2 has been renumbered 30302.2, Item 30303.3 has been renumbered 30302.3 and Item 30303.4 has been renumbered 30302.4. In addition the unit of measurement and quantities have been revised as follows:

30302	Subbase course of crushed stone: Strat de fundatie din piatra sparta:		
30302.1	Subbase course of crushed stone M 400 Strat de fundatie din piatra sparta M 400, h - 100 mm	Sq.m. / m ²	6 950,00
30302.2	Subbase course of crushed stone M 400 Strat de fundatie din piatra sparta M 400, h - 120 mm	Sq.m. / m ²	4 234,50
30302.3	Subbase course of crushed stone M 400 Strat de fundatie din piatra sparta M 400, h - 150 mm	Sq.m. / m ²	5 569,00
30302.4	Subbase course of crushed stone M 400 Strat de fundatie din piatra sparta M 400, h - 220 mm	Sq.m. / m ²	21 135,10
30303	Base course of crushed stone: Strat de fundatie din piatra sparta:		
30303.1	Base course of crushed stone M 1200, h - 290 mm Strat de fundație din piatra spartă M 1200, h - 290 mm (170 mm + 120 mm)	Sq.m. / m ²	114 128,00

Also Item No. 30503 has been revised as follows:

30503	Binder course of asphalt concrete SKAg-I/2.55 - Thickness 60 mm	Sq.m. / m ²	265 387,10
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Item No. 30507 has been replaced by No. 90201 as follows:

90201	Geocomposite Type 1 (SAMI)	Square Metre	48 814,00
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Also Items Nos. 30701.1, 30701.2 and 30701.3 descriptions have been changed as follows:

30701.1	Fine graind dense asphalt SMVg-III/2,0 Beton asfalt cu granulație fina SMVg-III/2,0, bitum BND 60/90, h - 30 mm
30701.2	Fine graind dense asphalt SMVg-III/2,0 Beton asfalt cu granulație fina SMVg-III/2,0, bitum BND 60/90, h - 40 mm
30701.3	Fine graind dense asphalt SMAg-I/2,55, Beton asfalt cu granulație fina SMAg-I/2,55, bitum BND 60/90, h - 40 mm

56. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE STRUCTURES], Items Nos. 50104, 50105, 50107 and 50110 are subtitles and the quantities have been deleted as follows:

50104	Construction of culvert inlets and outlets in concrete to box culverts:		
50105	Construction of new pipe culverts: Construcția podețelor tubulare noi din beton armat:		
50107	Extension of pipe culverts: Extinderea podețelor tubulare din beton:		
50110	Construction of culverts at side roads: Construcția podețelor la părțile laterale ale drumului:		

Also Item No. 50704 has been replaced by Item No. 90202

90202	Geotextile Type 1	Sq.m. / m ²
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57. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 700 [ROAD MARKING AND SIGNING], Item No. 70203 is a subtitle and the quantity has been deleted as follows:

70203	Broken line (centre line, shoulders), width 0.1 m, ratio 3:1, white or yellow Linie întreruptă (axa drumului, acostamente), lățime 0.1 m, raportul 3:1, albă sau galbenă		
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58. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 800 [ENGINEERING SERVICES], unit of measurement and quantity for Item 80204 has been revised as follows:

80204	Rearrangement of aerial communication lines	L.m.	1 400
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59. Article

Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 900 [Schedule of Daywork Rates], second Items Nos. 9.9L, 9.9M and 9.9E have been revised as follows:

9.10L	Skilled Labour	hr.
9.10M	Formwork	Sq.m.
9.10E	Concrete Mixers (500l)	hr

60. Article

Tender Documents, Part 2 – Requirements, Drawings:

A. The following Drawings have been revised:

- TPS 01 - Typical Pavement Section Type I
- TPS 02 - Typical Pavement Section Type II
- TPS 03 - Typical Pavement Section Type III
- TPS 04 - Typical Pavement Section Type IV
- TPS 05 - Typical Pavement Section Type V
- TCS 01 - Typical Cross Section. Type I
- TCS 02 - Typical Cross Section. Type II
- TCS 03 - Typical Cross Section. Type II
- GD 05 - Drainage and Manhole Structure
- GD 06 - Protection Supporting Structure for Trenches
- SD 15-01 - Pipe Culverts Elongation III 2.00 m. General View
- SD 19 - Types of Minor Intersections
- SD 20 - Types of Entries Into the Yards
- SD 21 - Cover Slab at Entries Into the Yards
- SD 23 - Sheltered Bus-stop Type 1
- LR 01 - Typical Pavement Section + Profile
- R 01 – Roundabout

B. The following Drawings have been added:

- SD 23A - Sheltered Bus-stop Type 1
- SD 23B - Sheltered Bus-stop Type 1
- SD 23C - Sheltered Bus-stop Type 2
- SD 23D - Sheltered Bus-stop Type 2
- SD 23E - Sheltered Bus-stop Type 3
- SD 23F - Sheltered Bus-stop Type 3
- SD 23G - Sheltered Bus-stop Type 3
- SD27 - Slope Chute Structure. Details
- MW 01 – Manual well
- MW 02 – Double Bench B1 Bin U-1
- MW 03 – Cover Slab IIII1.Cover Lid K1
- MW 04 – Jointing Elements ИМ2, ИМ3, ИМ4
- MW 05 – Details 4,5.Section4-4
- MW 06 – Details 2,3.Section2-2,3-3
- MW 07 – Plan of Purlins, Roof, Rafters. Section1-1
- MW 08 – Plan of Foundation. Section 1-1. ФМ-1, М-1
- MW 09 – Plan of Shelter. Facade 1-2, A. Detail 1
- MW 10 – General Data

- SD 17A – Pipe culvert construction d0.6 at minor intersections
- SD 17B - Pipe culvert construction d0.8 at minor intersections