

AMENDMENT No. 4

to the Tender Documents

ref: Tendering No. RSP/2014/OT/W8/01-02

ROAD SECTOR PROGRAM

Rehabilitation Works under one Contract

- **Contract RSP/W8/01-02:**

Lot 1: RSP/W8/01: “Rehabilitation of R34 Hincesti-Leova-Cahul Road, km 0+000–km 42+200“

Lot 2: RSP/W8/02: “Rehabilitation of R34 Hincesti-Leova-Cahul Road, km 42+200-km 83+000“

Issued on August 12, 2015

General

The following amendment articles are applicable to Contracts:

RSP/W8/01

Rehabilitation of R34 Hincesti-Leova-Cahul Road,
km 0+000 -km 42+200;

RSP/W8/02

Rehabilitation of R34 Hincesti-Leova-Cahul Road,
km 42+200 -km 83+000.

1. Article

Tender Documents, Part 1: Instructions to Tenderers, Section III: Evaluation and Qualification Criteria, Art. 32 Qualification of the Tenderer; Table 2.4. Experience has been revised as follows:

Lot 1

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 25 million** 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: **75,000 tonnes/year**;
- Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than: **90,000 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: **170,000 tonnes/year** in at least one year.

Lot 2

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 20 million** 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: **52,000 tonnes/year**;
- Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than: **65,000 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: **165,000 tonnes/year** in at least one year.

Lot 1 & Lot 2

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 45 million** equivalent,

Or alternatively:

- 2 No projects each of the value at least **20,000,000 Eur**
Plus
- 2 No projects each of the value at least **25,000,000 Eur**
All four projects to have been implemented more or less concurrently

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:**127,000 tonnes/year**;
- Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than: **155,000 tonnes/year** in at least one year;

Or alternatively:

- 1 Contract with at least **90,000 tonnes/year** in at least one year;
Plus
- 1 Contract with at least **65,000 tonnes/year** in at least one year.

Both contracts to have been implemented more or less concurrently
- Cold recycling of asphalt pavement on a single contract executed within the last three (3) years at a rate not less than: **335,000 tonnes/year** in at least one year;

Or alternatively:

- 1 Contract with at least **170,000 tonnes/year** in at least one year;
Plus
- 1 Contract with at least **165,000 tonnes/year** in at least one year.

Both contracts to have been implemented more or less concurrently

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:

Lot 1

b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities:

- B. Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than **90,000tonnes/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 **170,000 tonnes/year** in at least one year.*

Lot 2

b) For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities:

- B. Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than **65,000tonnes/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 **165,000 tonnes/year** in at least one year.*

Lot 1and Lot 2

For the above or other contracts executed during the period stipulated in 2.4.2(a) above, a minimum experience in the following key activities:

- B. Production and laying asphalt concrete on a single contract executed within the last three (3) years at a rate not less than **155,000tonnes/year** in at least one year*

Or alternatively:

- 1 Contract with at least **90,000 tonnes/year** in at least one year;*
Plus
*➤ 1 Contract with at least **65,000 tonnes/year** in at least one year.*

Both contracts to have been implemented more or less concurrently.

- C. Cold recycling of asphalt pavement on a single contract executed within the last three (3) years at a rate not less than **335,000 tonnes/year** in at least one year*

Or alternatively:

- 1 Contract with at least **170,000 tonnes/year** in at least one year;*
Plus
*➤ 1 Contract with at least **165,000 tonnes/year** in at least one year.*

Both contracts to have been implemented more or less concurrently.

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], Chapter 014.03 [GEOTEXTILE] has been revised as follows:

“Geotextiles shall be in accordance with Chapter 902.”

7. Article

Tender Documents, Part 2 – Requirements, Technical Specification CHAPTER 016. [COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT PLAN REQUIREMENTS], Measurement and Payment have been revised as follows:

Measurement

Not applicable. Measures to ensure compliance with the Environmental Management Plan Requirements of all kinds as outlined above or as necessitated by any other requirement of the Contract will be measured as a Lump Sum.

Payment

Payment for the requirements set out in Chapter 016 [Compliance with Environmental Management Plan requirements] shall be deemed to be included elsewhere within the cost items of the Bill of Quantities.”

8. 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

9. 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”.

10. 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

11. Article

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

12. 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.”

13. Article

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

14. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201 [THE EXECUTION OF THE EARTHWORKS], Paragraph 201.10 [CONSTRUCTION OF EMBANKMENTS], the following paragraph has been added:

“Construction procedures for reinforced embankments on soft foundations require special attention to the difficulties that can arise from site access, site clearance and fill placement. Improper fill placement can lead to geosynthetic damage, non-uniform settlements and embankment failure. Construction rate should be slow enough to ensure that there is enough dissipation of excess pore pressure. Reinforcement at the base of the embankment generally comprises a geogrid reinforcing element placed in a granular fill layer along with a geotextile separation layer at the interface of soft subsoil and the granular fill layer.”

15. 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”.

16. 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.”

17. Article

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

18. 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

and Item 20107 has been replaced by Item 90202 as follows:

90202	Geotextile Type 1	Square Metre
-------	-------------------	--------------

and New Item No.20109 has been added as follows:

20109	Ballast granular fill	Cubic Metre
-------	-----------------------	-------------

19. 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”.

20. 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”.

21. 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”.

22. 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”.

23. 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

24. 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.”

25. 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.”

26. 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.”

27. 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.”

28. 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 have 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

29. 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.”

30. 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”.

31. 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.”

32. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303 [WIDENING AND RECONSTRUCTION OF THE EXISTING CARRIAGEWAY AND PROVISION OF NEW PAVEMENT], Paragraph 303.05.[WORK ACCEPTANCE], Measurements and Payment Items 30301, 30302 and 30303 have been revised as follows:

Measurements

The whole work of new pavement construction shall be measured under the items below in cubic meters. Tonnes of asphaltic concrete shall be derived from the net volume converted to tons on the basis of the compacted density.

30301	Capping layer	Cubic Metre
30302	Subbase courses	Cubic Metre
30303	Base course of crushed stone	Cubic Metre

33. 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”.

34. 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”.

35. 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.

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”.

36. Article

Tender Documents, Part 2 – Requirements, Technical Specification Chapter 305.17. [ACCEPTANCE PROCEDURES], Payment Items have been revised as follows:

No.	Item	Unit of Measure
30501	Wearing course of stone mastic asphalt concrete (Type and Thickness specified in the Drawings and in the BoQ).	Square Metre

30502	Binder course of asphalt concrete (Type and Thickness specified in the Drawings and in the BoQ).	Square Metre
30503	Wearing course of asphalt concrete (Type and Thickness specified in the Drawings and in the BoQ).	Square Metre
90201	Geocomposite Type 1 (SAMI)	Square Metre

37. 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:

• Select fill	• Select fill with PI <17 and CBR > 15%
Crushed stone, gravel, sand mixture for the shoulder surface	SM GOST 25607 - 2010

38. 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.

39. 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.

40. 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.

41. 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”.

42. 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
-------	----------------------------	--------------

43. Article

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

44. Article

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

- C 8/10 to B10
- C 10/15 to B15
- C 20/25 to B25
- C 25/30 to B30
- C 30/37 to B40

45. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 408.02 [Materials], the text “*Rolls of reinforced waterproofing membrane 6 mm thick*” has been revised to “*Rolls of reinforced waterproofing membrane 5 mm thick.*”

46. 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
-------	-------------------	--------------

47. 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”.

48. 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.

49. Article

Tender Documents, Part 2 – Requirements, Technical Specification Chapter 703 [SIDEWALKS] has been revised to Chapter 703 [ENTRANCES TO PROPERTIES AND SIDE WALKS] and the following changes have been made in the text:

Introduction

This type of works consists of constructing new entrances to properties, new sidewalks and/or surfacing the existing entrances to properties and existing sidewalks with new asphalt concrete or cement concrete as directed by the Engineer.

Materials

Materials, items, and structures used for the works under this Section should meet the following requirements.

Fine grained asphalt concrete mix SM STB 1033:2008

Aggregate for foundations SM GOST 8267 - 93

Sand GOST 8736-93

Stairway structures according to the project

Cement-sand mixture according to the project

Concrete Paving Blocks according to the project

Material for concrete in accordance with Chapter 504.

kerbs shall be in compliance with Chapter 505.

Construction

The works are to be performed at the same time as pavements of the main roadways are being installed. When kerbs are required between the sidewalk and the roadways, placing kerbs should be performed before constructing the upper pavement layers and sidewalks.

Earth works should be in accordance with Chapter 201.

New pavement consisting of macadam foundation and fine grained asphalt concrete mix surface should be carried out in accordance with Chapter 306 for the macadam base and Chapter 307 for the asphalt surface. The contractor's equipment should be capable of constructing the pavement of design width as shown in the Drawings.

Repair

Where directed by the Engineer the Contractor shall repair existing entrances to properties and existing sidewalks by removing loose asphalt material and resurfacing with a 40mm layer of new fine grained asphalt mix.

Works Acceptance

The works under this Section are accepted in accordance with Clause 002 and providing that they are carried out according to the Project requirements, Drawings and Specifications and receive the Engineer's approval.

Measurement

Works 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

Payment

The works measured as indicated above and confirmed by the Engineer will be paid at the rates provided in the contract against those items that are shown in the bid schedule.

The payment under these items shall be the whole of the payment due for the completion of all.

No.	Item	Unit of Measure
70301	Repair of existing entrances to properties and/or existing sidewalk with asphalt concrete	Square Metre
70302	Construction of new entrances to properties and/or existing sidewalk with asphalt concrete surface	Square Metre
70303	Construction of new entrances to properties and/or existing sidewalk with cement concrete surface	Square Metre
70304	Construction of new entrances to properties and/or existing sidewalk with concrete Paving Blocks	Square Metre

50. 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.”

51. 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.”

52. 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:

53. 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

54. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902 [GEOTEXTILE FABRICS], Paragraph 902.02 [MATERIALS], new requirement for “*Embankment Reinforcement Geogrid*” has been added as follows:

Embankment Reinforcement Geogrid

Characteristics	Values admissible
Ultimate tensile strength	min. 10 KN/m
Strain at break	<70%
Coefficient of cross permeability	1x 10 ⁻² cm/s
Piercing with CBR	> 1000 N

55. Article

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902 [GEOTEXTILE FABRICS], Paragraph 902.04 [ACCEPTANCE OF WORKS], payment items 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
90206	Geogrid	Square meter

56. 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”.

57. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 100 [EARTHWORKS], New Item No. 10501, has been added as follows:

10501	Provide diversion road	Linear Metre	281
-------	------------------------	--------------	-----

58. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], Item No. 20101, description has been revised 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).	Cubic Metre	57260
-------	--	-------------	-------

59. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], New Item No. 20109, has been added as follows:

20109	Ballast granular fill	Cubic Metre	2 820
-------	-----------------------	-------------	-------

60. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], New Item No. 20103, has been added as follows:

20103	Select Fill to Shoulders (Shoulder fill)	Cubic Metre	21100
-------	--	-------------	-------

61. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], New Items No. 90202 and 90206, have been added as follows:

90202	Geotextile Type 1	Square Metre	14 400
90206	Geogrid	Square Metre	14 400

62. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], quantities for Items No. 20401 and 20402 have been revised as follows:

20401	Loading of stockpiled topsoil. spread on embankment slopes of min 150 mm thickness. light compaction	Cubic Metre	3 960
-------	--	-------------	-------

20402	Provide top soil. spread on embankment slopes and road sides of min 150 mm thickness. light compaction	Cubic Metre	20 000
-------	--	-------------	--------

63. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Item No. 30103 description 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.	Cubic Metre	89 680
-------	---	-------------	--------

64. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Items No. 30301 and 30301.2 have been deleted.

65. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Item No.30302 description has been revised and New Items Nos. 30302,1 and 30302,2 has been added as follows:

30302	Subbase course		
30302.1	Subbase course of ballast	Cubic Metre	12 150
30302.2	Subbase course of crushed limestone	Cubic Metre	25 360

66. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Items No. 30301 and 30301.2 have been deleted.

67. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill 300 [PAVEMENT], Items 30501 and 30508 have been replaced by Items 30501.1 and 30502.5 as follows:

30501.1	Wearing course of stone mastic asphalt concrete Thickness 40 mm	Square Metre	341 050
30502.5	Binder course of asphalt concrete SKBg-II - Thickness 100 mm	Square Metre	344 461

68. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill 300 [PAVEMENT], Bill Item No. 30802,6 has been replaced by Item No. 30801.1 as follows:

30801.1	Cement-stabilized base (poor concrete). Thickness 230 mm	Square Metre	6395
---------	--	--------------	------

69. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE

STRUCTURES], New Item No. 50103.8 has been added as follows:

New Item 50103.8 has been added in the Bill of Quantities as follows:

50103.8	to Pipe culverts Ø 1500	Number	4
---------	-------------------------	--------	---

70. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], New Item No. 30602.1 has been added as follows:

30602.1	Shoulder surfacing material Thickness 150 mm	Square Metre	121 590
---------	--	--------------	---------

71. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE STRUCTURES], New Item No. 50602B has been added as follows:

50602B	Rip-rap on culvert in- and outlets with stones 1000mm < D50 < 1500mm	Square Metre	924
--------	---	--------------	-----

72. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE STRUCTURES], New Items No. 50901 and 50901.1 have been added as follows:

50901	Construction of transversal drains	Linear Metre	3 370
50901.1	Construction of transversal drains(slope)	Linear Metre	330

73. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], Item No. 20101A description has been revised as follows:

20101A	Provide suitable material for fill in embankment and access roads adjustments. incl haulage and compaction Executarea rambleului	Cubic Metre	3 350
--------	---	-------------	-------

74. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], Item No. 30103 description 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.	Cubic Metre	500
-------	---	-------------	-----

75. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], Item No. 30301.2 has been replaced by Item 30302.1 as follows:

30302.1	Subbase course of ballast	Cubic Metre	270
---------	---------------------------	-------------	-----

76. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill 600 [INCIDENTAL CONSTRUCTION], Minor intersections and Bus Stations, Items 30501, 30504A and 30503 have been replaced by Items 30501.1 and 30502.1 as follows:

	Minor intersections:		
30501.1	Wearing course of stone mastic asphalt concrete Thickness 40 mm	Square Metre	22 550
30502.1	Binder course of asphalt concrete SKBg-II Thickness 60 mm	Square Metre	22 550
	Bus station		
30501.1	Wearing course of stone mastic asphalt concrete Thickness 40 mm	Square Metre	3 940
30502.1	Binder course of asphalt concrete SKBg-II - Thickness 60 mm	Square Metre	3 940

77. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], New Item No. 50802 has been added as follows:

50802	Concrete kerbs Precast concrete kerbing and backing-type-2(100x20x8) Bordura din beton 100x20x8	linear meter	19 946
-------	--	--------------	--------

78. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], New Items No. 60401, 60401.1, 60401.2, 60401.3, 60401.4, 40303A, 40303B, 60402 and 60403 have been added as follows:

60401	Construct retaining wall in reinforced concrete.		
-------	--	--	--

60401.1	Construct retaining wall in reinforced concrete,h=1,0m.	Cubic Metre	344
60401.2	Construct retaining wall in reinforced concrete,h=2,0m.	Cubic Metre	861
60401.3	Construct retaining wall in reinforced concrete,h=3,0m.	Cubic Metre	1560
60401.4	Construct retaining wall in reinforced concrete,h=5,0m.	Cubic Metre	860
40303A	Piles foundation Cast-in-situ Bored Piles for Abutments, diameter 1.08 m, length up to 15 m, , including drilling of borehole and piping, structural steel as spacer rings and pile point bracing, concrete class B25, reinforcement steel, disposal of drill cuttings and earthy material, and all ancillary works and materials.	Linear meter	825
40303B	Piles foundation Cast-in-situ Bored Piles for Abutments, diameter 1.08 m, length up to 12 m, , including drilling of borehole and piping, structural steel as spacer rings and pile point bracing, concrete class B25, reinforcement steel, disposal of drill cuttings and earthy material, and all ancillary works and materials.	Linear meter	625
60402	Gravel drain behind structures	Linear Metre	1360
60403	Pipe drain behind structures	Linear Metre	180

79. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 700 [ROAD MARKING AND SIGNING], Item No. 70302 description has been revised as follows:

70302	Construction of new entrances to properties and/or existing sidewalk with asphalt concrete surface	Square Metre	30 515
-------	--	--------------	--------

80. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Items Nos. 9.9L, 9.9M and 9.9E has been replaced by Items Nos 9.10L, 9.10M and 9.10E as follows:

9.10L	Skilled Labour	hr.	1 600
9.10M	Formwork	Sq.m.	200
9.10E	Concrete Mixers (500l)	hr	100

81. Article

Lot 1, Tender Documents, Part 2 – Requirements, Bill of Quantities, the following deletions have been made.

Bill 000 [GENERAL REQUIREMENTS] Subtitle has been deleted:

	COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT PLAN REQUIREMENTS		
--	---	--	--

Bill 200 [EARTHWORKS] Subtitle has been deleted:

	THE EXECUTION OF DITCHES		
--	---------------------------------	--	--

Bill 300 [PAVEMENT] Subtitle has been deleted:

	VARIOUS ASPHALT WORKS		
--	------------------------------	--	--

Bill 300 [PAVEMENT]

Item heading 30801 Unit of Measure has been deleted:

30801	<u>Cement-stabilized base</u>		
-------	--------------------------------------	--	--

Bill [Bridge/ Pod R34-1N-B, km 0+113] Subtitles have been deleted:

	Technical Support/ Suport tehnic		
	Pile Load Tests/ Testarea Pilotilor prin Incarcare cu Sarcina		
	Dynamic and Static Load Test on Bridges Testarea Statica si Dinamica a Podurilor		

Bill [Bridge/ Pod R34-1N-B, km 0+113] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-1N-B, km 0+113] Wording "n/a" has been deleted:

	Concrete class C25/30; including formwork (install and remove), cast, com-pact, cure, protect, provide and install reinforcing steel, all ancillary works and materials Beton clasa C25/30; incluzind cofrajul (instalarea si demontare), turnarea, vibrarea, pregatirea suprafetei, protejarea precum si furnizarea si montarea a armaturii, toate lucrarile si materialele aditionale.		
--	--	--	--

Bill [Bridge/ Pod R34-1-B, km 6+240] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-2-B, km 15+393] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-3-B, km 15+416] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-4-B, km 29+605] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-5-B, km 30+662] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-6-B, km 31+374] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-7-B, km 32+312] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-8-B, km 34+342] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-9-B, km 38+351] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-10-B, km 39+469] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
-----	--	--	--

Bill [Bridge/ Pod R34-10-B, km 39+469] Subtitle 404 has been deleted:

404	Superstructure/ Suprastructura		
-----	---	--	--

Bill [Bridge/ Pod R34-11-B, km 40+918] Subtitle 403, Unit of measure has been deleted:

403	Construction of Bridge Substructure Constructia Infrastructurii Podului		
------------	--	--	--

Bill 500 [DRAINAGE STRUCTURES] Item headings 50103, 50104, 50105, 50301 and 50302 Units of measure have been deleted:

50103	<u>Construction of culvert inlets and outlets in concrete to pipe culverts</u>		
50104	<u>Construction of culvert inlets and outlets in concrete to box culverts</u>		
50105	<u>Construction of new concrete pipe culverts</u>		
50301	<u>Spillway on embankment slope</u>		
50302	<u>Lined side drain or waterway Type with precast concrete units or cast in situ</u>		

Bill 600 [INCIDENTAL CONSTRUCTION] Item headings 30301, 50103 and 50105, Units of measure have been deleted:

30301	Capping layer		
50103	<u>Construction of culvert inlets and outlets in concrete to pipe culverts</u>		
50105	<u>Construction of new concrete pipe culverts</u>		

Bill 700 [ROAD MARKING AND SIGNING] Item headings 70105 and 70106, Units of measure have been deleted:

70105	<u>Install new signs on new supports. including installation of posts</u>		
70106	<u>Install new Direction signs on new supports. including installation of posts</u>		

82. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, the following deletions have been made.

Bill 000 [GENERAL REQUIREMENTS] Subtitle has been deleted:

	COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT PLAN REQUIREMENTS		
--	---	--	--

Bill 500 [DRAINAGE STRUCTURES] Item headings 50103, 50104, and 50302 Units of measure have been deleted:

50103	<u>Construction of culvert inlets and outlets in concrete to pipe culverts</u>		
50104	<u>Construction of culvert inlets and outlets in concrete to box culverts</u>		
50302	<u>Lined side drain or waterway Type with precast concrete units or cast in situ</u>		

Bill 600 [INCIDENTAL CONSTRUCTION] Item headings 50103 and 50105, Units of measure have been deleted:

50103	<u>Construction of culvert inlets and outlets in concrete to pipe culverts</u>		
50105	<u>Construction of new concrete pipe culverts</u>		

Bill 700 [ROAD MARKING AND SIGNING] Item headings 70105 and 70106, Units of measure have been deleted:

70105	<u>Install new signs on new supports. including installation of posts</u>		
70106	<u>Install new Direction signs on new supports. including installation of posts</u>		

83. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 000, subtitle “COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT PLAN REQUIREMENTS” has been deleted.

84. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 100 [EARTHWORKS], New Item No. 10501, has been added as follows:

10501	Provide diversion road	Linear Metre	220
-------	------------------------	--------------	-----

85. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [PREPARATORY WORKS], Item No. 20101, has been revised 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).	Cubic Metre	31710
-------	--	-------------	-------

86. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], New Item No. 20103, has been added as follows:

20103	Select Fill to Shoulders (Shoulder fill)	Cubic Metre	20400
-------	--	-------------	-------

87. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], New Item No. 90202, has been added as follows:

90202	Geotextile Type 1	Square Metre	3 706
-------	-------------------	--------------	-------

88. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 200 [EARTHWORKS], quantities for Items No. 20401 and 20402 have been revised as follows:

20401	Loading of stockpiled topsoil. spread on embankment slopes of min 150 mm thickness. light compaction	Cubic Metre	1 150
20402	Provide top soil. spread on embankment slopes and road sides of min 150 mm thickness. light compaction	Cubic Metre	11 700

89. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Item No. 30103 description 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.	Cubic Metre	8 6288
-------	---	-------------	--------

90. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Items No. 30301 and 30301.2 have been deleted

91. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Item No. 30302 description has been revised and New Items Nos. 30302.1 and 30302.2 has been added as follows:

30302	Subbase courses		
30302.1	Subbase course of ballast	Cubic Metre	20100
30302.2	Subbase course of crushed limestone	Cubic	35870

		Metre	
--	--	-------	--

92. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], Items No. 30303 and 30303.2 have been deleted.

93. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill 300 [PAVEMENT], Items 30501 and 30508 have been replaced by Items 30501.1, 30502.1 and New Item 30502.5 has been added as follows:

30501.1	Wearing course of stone mastic asphalt concrete Thickness 40 mm	Square Metre	327 750
30502.1	Binder course of asphalt concrete SKBg-II - Thickness 60 mm	Square Metre	193 651
30502.5	Binder course of asphalt concrete SKBg-II - Thickness 100 mm	Square Metre	137 377

94. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], New Item No. 30602.1 has been added as follows:

30602.1	Shoulder surfacing material Thickness 150 mm	Square Metre	122450
---------	--	--------------	--------

95. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill 300 [PAVEMENT], Bill Item No. 30802,6 has been replaced by Item No. 30801.1 as follows:

30801.1	Cement-stabilized base (poor concrete). Thickness 230 mm	Square Metre	6522
---------	--	--------------	------

96. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE STRUCTURES], New Item No. 50103.8 has been added as follows:

New Item 50103.8 has been added in the Bill of Quantities as follows:

50103.8	to Pipe culverts Ø 1500	Number	2
---------	-------------------------	--------	---

97. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE STRUCTURES], New Item No. 50602B has been added as follows:

50602B	Rip-rap on culvert in- and outlets with stones 1000mm < D50 < 1500mmm	Square Metre	3 360
--------	---	--------------	-------

98. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 500 [DRAINAGE STRUCTURES], New Items No. 50901 and 50901.1 have been added as follows:

50901	Construction of transversal drains	Linear Metre	7 566
50901,1	Construction of transversal drains(slope)	Linear Metre	335

99. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], Item No. 20101A description has been revised as follows:

20101A	Provide suitable material for fill in embankment and access roads adjustments. incl haulage and compaction Executare a rampleului	Cubic Metre	2 100
--------	--	-------------	-------

100. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], Item No. 30103 description 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.	Cubic Metre	1310
-------	---	-------------	------

101. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], Item No. 30301,2 has been replaced by Item 30302.1 as follows:

30302.1	Subbase course of ballast	Cubic Metre	390
---------	---------------------------	-------------	-----

102. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill 600 [INCIDENTAL CONSTRUCTION], Minor intersections and Bus Stations, Items 30501, 30504A and 30503 have been replaced by Items 30501.1 and 30502.1 as follows:

Minor intersections			
30501.1	Wearing course of stone mastic asphalt concrete Thickness 40 mm	Square Metre	16 200
30502.1	Binder course of asphalt concrete SKBg-II Thickness 60 mm	Square Metre	16 200

Bus station			
30501.1	Wearing course of stone mastic asphalt concrete Thickness 40 mm	Square Metre	8 500
30502.1	Binder course of asphalt concrete SKBg-II - Thickness 60 mm	Square Metre	8 500

103. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], New Item No. 50802 has been added as follows:

50802	Concrete kerbs Precast concrete kerbing and backing - type 2 (100x20x8) Bordura din beton 100x20x8	linear meter	16 096
-------	--	--------------	--------

104. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 600 [INCIDENTAL CONSTRUCTION], New Items No. 60401, 60401.1, 60401.2, 60401.3, 60402 and 60403 have been added as follows:

60401	Construct retaining wall in reinforced concrete.	Cubic Metre	
60401.1	Construct retaining wall in reinforced concrete,h=1,0m.	Cubic Metre	580
60401.2	Construct retaining wall in reinforced concrete,h=2,0m.	Cubic Metre	1035
60401.3	Construct retaining wall in reinforced concrete,h=3,0m.	Cubic Metre	332
60402	Gravel drain behind structures	Linear Metre	1000
60403	Pipe drain behind structures	Linear Metre	129

105. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 700 [ROAD MARKING AND SIGNING], Item No. 70302 description has been revised as follows:

70302	Construction of new entrances to properties and/or existing sidewalk with asphalt concrete surface	Square Metre	15 100
-------	--	--------------	--------

106. Article

Lot 2, Tender Documents, Part 2 – Requirements, Bill of Quantities, Bill No. 300 [PAVEMENT], New Items Nos. 9.9L, 9.9M and 9.9E has been replaced by Items Nos 9.10L, 9.10M and 9.10E as follows:

9.10L	Skilled Labour	hr.	1 600
9.10M	Formwork	Sq.m.	200
9.10E	Concrete Mixers (500l)	hr	100

107. Article

Lot 1 and Lot 2, Tender Documents, Part 2 – Requirements, ENVIRONMENTAL MANAGEMENT PLAN, the following have been deleted:

Section 7, Table 4 and summary references to these.

108. Article

Lot 1, Tender Documents, Part 2 – Requirements, Drawings:

A. The following Drawings have been revised:

- CST - - Typical Cross Sections;
- CST-3 - Typical Cross Sections;
- CST-2 - Typical Cross Sections;
- SD – 005 – Minor Intersections Detail;
- SD-021-1 - Pipe culverts construction 2.0x2.0m with suction sump;
- CSD – 01 - Mattress with granular fill reinforced by geogrids;
- CSD-02-1 - Surface drainage of slopes in cuttings;
- CSD-02-2 - Surface drainage of slopes in cuttings;
- CSD-03 - Slope protection with rockfill;
- CSD-04 to CSD-11 - Reinforced concrete retaining structure for cutting;

B. The following Drawings have been added:

- LD–17 – Temporary bypass
- LD–16 – Temporary bypass
- LD–20 – Rectangular manhole intersections to drainage concrete ditch in settled areas
- LD-18– Pipe Culvert
- LD-19– Pipe Culvert
- LA001A to LA064A - Plan + Longitudinal Profil
- SD -006 - Entry to yard
- Bridge No. R34-1N-B, Bridge No. R34-1-B, Bridge No. R34-2-B, Bridge No. R34-3-B, Bridge No. R34-4-B, Bridge No. R34-5-B, Bridge No. R34-6-B, Bridge No. R34-7-B, Bridge No. R34-8-B, Bridge No. R34-9-B, Bridge No. R34-10-B and Bridge No. R34-11.

C. The following Drawings have been deleted :

- SD -006-1 - Entry to yard
- SD -006-2 - Entry to yard

Lot 2, Tender Documents, Part 2 – Requirements, Drawings:

A. The following Drawings have been revised:

- CST-1- Typical Cross Sections
- CST-3 - Typical Cross Sections
- CST-2 - Typical Cross Sections
- SD – 004 – Minor Intersections Detail
- SD -005-1 - Entry to yard
- SD -005-2 - Entry to yard
- CSD-01-1 – Surface drainage of slopes in cuttings
- CSD-01-2 – Surface drainage of slopes in cuttings
- CSD-03 to CSD-05 - Reinforced concrete retaining structure for embankment

B. The following Drawings have been added:

- LD–37 – Temporary bypass
- LD–20 – Rectangular manhole intersections to drainage concrete ditch in settled areas
- SD-23 - Pipe Culvert
- SD-24 - Pipe Culvert
- Bridge No. R34-12-B, Bridge No. R34-13-B, Bridge No. R34-14-B, Bridge No. R34-15-B, Bridge No. R34-16-B, Bridge No. R34-17-B and Bridge No. R34-18-B