



REPUBLIC OF MOLDOVA
ROAD SECTOR PROGRAM
STATE ROAD ADMINISTRATION

ADDENDUM No.3

to the Tender Documents

ref: Tendering No. RSP/2013/OT/W6

Road Rehabilitation & Construction Works under two Lots

- **Lot 1: RSP/W6/01:**
"Rehabilitation of R14 Bălți - Sărăteni Road km 26+600 - km 38+300"
- **Lot 2: RSP/W6/02:**
*"Rehabilitation of R14 Bălți - Sărăteni Road km 43+000 - km 61+000 and
Bridge at km bridge at km 64 + 756"*

Issued on 14 July 2014

General:

Each of the following amendment articles specifies whether it is applicable to all two (2) lots, or to a specific lot, respectively.

Article 1

Tender Documents, Part 1 – Tendering Procedures, Title Page the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

In addition all references of Lot 2 being “*km 43+000-km 61+000 with km 64+370-km 66+657*” shall be replaced with “*km 43+000 - km 61+000 with bridge at km 64 + 756*” throughout all the clauses of the tender documents including, but not necessarily limited to, Articles 2, 3, 5, 9, 10, 11, 12, 13, 97, 98, 99, 100, 101 and 102 below.

Article 2

Tender Documents, Part 1 – Tendering Procedures, Invitation to Tenderers, page title, the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

Article 3

Tender Documents, Part 1 – Tendering Procedures, Invitation to Tenderers, second paragraph, the description of Lot 2 is changed to “*RSP/W6/02:km 43+000 to km 61+000 and Bridge at km 64 + 756.*”

Article 4

Tender Documents, Part 1 – Tendering Procedures, Invitation to Tenderers, page 2, first paragraph, September 2014 is replaced by January 2015

Article 5

Tender Documents, Part 1 – Tendering Procedures, Invitation to Tenderers, page 2, first paragraph of Lot 2 description is changed to “*Lot 2: Starting after Copaceni village at km 43+000 and extending to km 61+000 but also including the bridge at km 64 + 756*”

Article 6

Tender Documents, Part 1 – Tendering Procedures, Invitation to Tenderers, page 2, second paragraph of Lot 2 “*September 2014*” is replaced by “*January 2015*”

Article 7

Tender Documents, Part 1 - Section III: Evaluation and Qualification Criteria, Table 2.3 Financial Situation, 2.3.2 Average Annual Turnover, Joint Venture, Consortium, Association, Each Partner “*Must meet Twenty five percent (30%) of the requirement*” is corrected to “*Must meet Thirty percent (30%) of the requirement*”

Article 8

Tender Documents, Part 1 - Section III: Evaluation and Qualification Criteria, Table 2.3 Financial Situation, 2.3.3 Financial Resources, Joint Venture, Consortium, Association, Each Partner “*Must meet Twenty five percent (30%) of the requirement*” is corrected to “*Must meet Thirty percent (30%) of the requirement*”

Article 9

Tender Documents, Part 1 – Section II, Tender Data Sheet, 1 Scope of Tender, 1.1, Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and Bridge at km 64 + 756.*”

Article 10

Tender Documents, Part 1 - Section IV: Tender Forms, Contract Data, Sections, 1.1.5.6, Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and Bridge at km 64 + 756.*”

Article 11

Tender Documents, Part 1 - Section IV: Tender Forms, Scope of Works, Title Page, the text “*km 64+370 – km 66+657*” is deleted and replaced by “*Bridge at km 64 + 756.*”

Article 12

Tender Documents, Part 1 - Section IV: Tender Forms, Scope of Works, first paragraph of Lot 2 description is changed to “*Lot 2: Starting after Copaceni village at km 43+000 and extending to km 61+000 but also including the bridge at km 64 + 756*”

Article 13

Tender Documents, Part 2 – Requirements, Technical Specifications, Title Page, the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

Article 14

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 014.03, heading is revised to “*Geotextiles / Geosynthetics*” and reference to “*AASHTO M288*” is replaced by “*EN 13249*”

Article 15

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 101.03, Works Description, Construction Drawings, the text “*The Designer’s Representative shall Review and agree, or provide comments upon, the conformity of the Draft Construction Drawings with the intentions of the Design and verify the Contractor’s quantity and cost analysis.*” is deleted and the following paragraph is added “*The time period for Engineer’s review and submission to the Employer is 14 days*”.

Article 16

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201.16., heading is revised to “*Geotextiles / Geosynthetics*” and reference to “*AASHTO M288*” is replaced by “*EN 13249*”

Article 17

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201.17.03, General requirements, the text “*as shown in the Geotechnical drawing GDXX*” is deleted

Article 18

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201.17.04. Protection Layers Construction, the text “*Shaped the existing slope and the road embankment slope as shown in the Drawings GDxx.*” is deleted

Article 19

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 204.10, Works Acceptance, following Item is added:

No.	Item	Unit of Measure
20404	Consolidation of new trapezoidal side ditch with grass seeding	Square Meter

Article 20

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302, heading is changed to “*Regulating Courses and Milling*”

Article 21

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302.01, Introduction, the previous text is deleted and replace by “*This type of works includes the execution of the regulating course and the milling of high areas, to correct the original asphalt surface before the new courses are laid.*”

Article 22

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302.03, the previous text is deleted and replaced by the following:

“302.03 General

The Contractor shall, in conjunction with the Engineer, carry out a detailed level survey of the existing pavement surface prior to the commencement of regulating course and milling work. Finished road levels will be confirmed after the results of the survey have been analysed.

The survey will be used to determine the extent of milling and regulating course work and any areas needing more than one regulating layer. The aim shall be to strike a balance between low areas to be regulated and high areas to be milled such that the overall cost of regulating/milling shall be minimised. The balance will depend on a final analysis of surface irregularity and on the accepted bid prices for regulating asphalt and for milling. A minimum practical thickness of regulating course shall be determined based on the approved job mix formula and laying and compaction conditions.

Milling

Milling shall be carried out with purpose designed asphalt milling equipment capable of milling a minimum of 1 metre width in a single pass. Milling equipment shall be equipped with automatic line and level control. All trucks containing milled material shall be weighed before leaving the site and weight certificates of a design approved by the Engineer shall be signed by Contractor and Engineer staff. These weight certificates shall be the basis for payment for milling and without approved certificates no payment will be made.

Milled material shall be disposed of by the Contractor either by recycling as asphalt regulating to the satisfaction of the Engineer or at road maintenance locations to be advised by the Engineer. All requirements of this Specification and of the competent local authorities are to be met.

Regulating Courses

The mix design, placing, and the equipment used will meet requirements of Chapter 305. Smoothness of the levelling layer after compaction should meet Subsection 305.16 requirements. However if the Engineer approves, regulated sections with deviations of more than 5mm (between any two contacts of the 3m metal straightedge and surface) or which fail to comply with the +5mm/-15mm level tolerances can be accepted as satisfactory with no correction being required provided that the thickness of overlay remaining to be applied is considered by the Engineer to be sufficient to allow this correction to be applied in the overlay course(s). The Engineer's decision on whether to allow such derogation from the specified requirements shall be absolute.

Within the limits of the indicated total overlay thicknesses, every effort shall be made to minimise the total volume of asphalt surfacing materials required and where extensive regulating is needed to restore road shape, particularly in raising low areas and in providing superelevation, finished surface levels shall be adjusted where possible to take advantage of the thickness of regulating to reduce the required thickness of overlay.”

Article 23

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302.04, Acceptance, the words “and regulating” are added after “The acceptance of the asphalt milling”

Article 24

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302.04, Measurement, the text “Regulating courses made from hot asphaltic mixture or coated materials are measured in tonnes.” is added to the end of the paragraph.

Article 25

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303.02, Materials the final row of the table is revised as follows:

<i>Geotextile / Geosynthetics</i>	<i>EN 13249</i>
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Article 26

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303.04, Construction Procedure, the text “98% of Marshall Density (AASHTO T230)” is deleted and replaced with “as specified in Chapter 305”

Article 27

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303.05, Work Acceptance, Payment, Item 30302 is revised as follows:

No.	Item	Unit of Measure
30302	<i>Subbase courses of ballast or crushed limestone M 600</i>	<i>Cubic Metre</i>

Article 28

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 304.07, Works Acceptance, Payment, Items 30401 and 30402 are revised as follows:

No.	Item	Unit of Measure
30401	Tack Coat using cutback bitumen, 0.3 l/sq. m.	Litre
30402	Prime-coat using cutback bitumen or bituminous emulsion, 0.6 l/sq. m.	Litre

Article 29

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.03, General Requirements, the text *“and shall be either fine grained dense or coarse grained dense. Porous mixes are not accepted for the works”* is deleted

Article 30

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.08, Asphalt Mix Design and Testing, the text *“Porous asphalt shall not be used”* is deleted, the text *“of at least 98% Marshall Density”* is deleted and replaced by *“in accordance with chapter 305.14”*, and the text *“In case of discrepancy use SM STB 1033-2008”* is added to the end of the section.

Article 31

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.14, Compaction, the text *“98% of Marshall Density”* is deleted and replaced by *“0,99 of SNiP 306.06-85”*

Article 32

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.17, Acceptance Procedures, the reference to *“SNiP 3.06.03-85”* is corrected to *“SNiP 3.06.06-85”*

Article 33

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.17, Acceptance Procedures, Payment, Items 30505 and 90202 are revised as follows:

No.	Item	Unit of Measure
30505	Base course made of coarse grained porous asphalt concrete M1 Thickness 70mm	Square Metre
90202	Geocomposite Type 1 for road pavement as SAMI	Square Metre

Article 34

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 306.03, The Removal and Reconstruction of Shoulders, sixth paragraph the text *“(M400)”* is deleted and replaced by *“(M300)”*.

Article 35

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 307.09, Works Acceptance, the text “tonnes” is deleted and replaced by “square metres” and the unit of measure for Item 30701 is changed to “square metres”

Article 36

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 311.02, Materials, Asphalt concrete, the reference to “Chapter 308” is deleted and replaced by reference to “Chapter 305”

Article 37

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 312.01, Introduction, the text “to finely cracked areas” is deleted.

Article 38

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 312.02, Materials, Geotextile for SAMI, reference to “Section 602” is deleted and replaced by reference to “Section 902”.

Article 39

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 312.04, Cleaning and sealing of major cracks, the text “if required,” and “on subsequent overlay layers” is deleted.

Article 40

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 312.07, Application of SAMI layer, the text “Type 3 requirements of chapter 602” is deleted and replaced with “Geocomposite Type 1 requirements of chapter 902”.

Article 41

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 312.09, Works Acceptance, Payment, Item 31202 is deleted and replaced by Item 90202, as follows:

90202	<i>Geocomposite Type 1 for road pavement as SAMI (Stress Absorbed Membrane Interlayer)</i>	<i>Square metre.</i>
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Article 42

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 401.01, Introduction, an additional bullet is added as follows:

“ - *repair concrete surface (abutment, piers, deck beams, ..), thickness 2-3 cm with PCC material (cement with polymers)*”

and the text “ *reinforced concrete, concrete and mortar to comply with*” is added in the final paragraph.

Article 43

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 401.07, Work Acceptance, Payment, Items 40108, 40110 40111 and 40112 are deleted and Item 40109 is added as follows:

40109	<i>Piles factory manufacture, transporting and installation on the site</i>	<i>cubic meter</i>
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Article 44

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 404, the title is changed to “*SUPERSTRUCTURE: SPANS, 4,80, 8,66, 11,36, 18.00 M*”

Article 45

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 404.01, Introduction, the text is revised as follows:

“The works consist of manufacturing of new girders/beams and repairing of existing girders, transportation, handling, erection of deck girders/beams and their jointing. The work of demolishing bridge elements and dismantling of the existing reinforced concrete slab decks of, 4,80, 8,66, 11,36, 18.00 m span do not form part of this chapter and are included in chapter 418. The work of waterproofing new bridge decks is covered in chapter 408.”

Article 46

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 404.06, Works Acceptance, Payment, Item 40401 is revised and Items 40402 and 40403 are added as follows:

	Item	Unit of measure
40401	<i>Execution of bridge deck of, 4,80, 8,66, 11,36, 18.00 m span and bearing platform</i>	<i>Cubic metre</i>
40402	<i>Hand drilling in reinforced concrete</i>	<i>Lin meter</i>
40403	<i>Production and installation of steel parts and armature</i>	<i>Kg</i>

Article 47

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 409.03, Working Requirements, the text “*or welded to embedded base plates*” is added in the second paragraph.

Article 48

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 412.07, Acceptance of Works, Payment, new Item 41205 is added, as follows:

	Item	Unit of measure
41205	<i>Concrete spur</i>	<i>linear metre</i>

Article 49

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 418.01, Introduction, Dismantling of bridges decks slabs of reinforced concrete; lengths “3,90” and “4,80” are deletes and length “6,00” is added.

Article 50

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 418.04, Works Acceptance, Payment, Items 41801 and 41807 are revised as follows:

41801	<i>Demolishing of reinforced concrete safety parapets of the bridge or embankment</i>	<i>cubic metre</i>
41807	<i>Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length</i>	<i>cubic metre</i>

Article 51

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 501.11, Works Acceptance, Payment, Items 50103A, 50104A, 50105A, 50106A, 50107A, 50108A are revised as follows:

No.	Item	Unit of Measure
50103A	<i>Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1000mm)</i>	<i>Number</i>
50104A	<i>Construction of culvert inlets and outlets to box culverts</i>	<i>Number</i>
50105A	<i>Construction of new pipe culverts (pipe diameter 1600mm)</i>	<i>Linear Metre</i>
50106A	<i>Construction of new box culverts</i>	<i>Linear Metre</i>
50107A	<i>Extension of pipe culverts (pipe diameter 1000m)</i>	<i>Linear Metre</i>
50108A	<i>Extension of box culverts</i>	<i>Linear Metre</i>

And new Items 50103C and 50112 are added as follows:

No.	Item	Unit of Measure
50103C	<i>Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1600mm)</i>	<i>Number</i>
50112	<i>300x96x20 slabs spanning the lined side drains to property entrances and pedestrian accesses to bus station</i>	<i>Number</i>

Article 52

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 503.02, Materials, the text “*and a minimum compressive strength of 25 N/mm² at 28 days*” is deleted and is replaced by “*B20 concrete*”.

Article 53

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 503.06, Works Acceptance, Payment, the unit of measure for Items 50304 and 50308 are changed as follows:

<i>No.</i>	<i>Item</i>	<i>Unit of Measure</i>
50304	<i>Construct chute entry gully, double sided entry</i>	<i>Number</i>
50308	<i>New construction of Lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular 0.60 x 0.60.</i>	<i>Linear Metre</i>

Article 54

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 508.06, Works Acceptance, Payment, Item 50801 description is revised and a new Item 50802 is added as follows:

<i>No.</i>	<i>Item</i>	<i>Unit of Measure</i>
50801	<i>Type 1, Precast concrete kerbing and backing</i>	<i>Linear Metre</i>
50802	<i>Type 2, Precast concrete kerbing and backing</i>	<i>Linear Metre</i>

Article 55

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 703.05, Works Acceptance, Payment, a new Item 70305 is added, as follows:

<i>No.</i>	<i>Item</i>	<i>Unit of Measure</i>
70305	<i>Walkways kerb</i>	<i>Linear Metre</i>

Article 56

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 901.07, title is changes to “*Geocomposites and Geotextiles*”

Article 57

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 901.010, Subgrade, Item 90104 description is revised as follows:

<i>No.</i>	<i>Item</i>	<i>Unit of Measure</i>
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90104	Construct road embankments with material from common excavation and borrow including working with geotextile layers	Cubic meter
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Article 58

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902.02, Materials, GEOTEXTILE Type 1 Geotextile for transverse subsurface drainage, the properties table is revised as follows:

<i>Properties</i>	<i>[Standard]</i>	<i>UM</i>	<i>Parameters</i>
<i>Tensile strength, MD/CD</i>	<i>[EN ISO 10319]</i>	<i>kN/m</i>	<i>20/20 minimum</i>
<i>Elongation at max.load, MD/CD</i>	<i>[EN ISO 1031]</i>	<i>%</i>	<i>100/40 minimum</i>
<i>Static puncture strength (CBR- test)</i>	<i>[EN ISO 12236]</i>	<i>N</i>	<i>2.900 minimum</i>
<i>Cone drop test (hole-Ø)</i>	<i>[EN ISO 13433]</i>	<i>Mm</i>	<i>19 maximum.</i>
<i>Permeability vertical</i>	<i>[EN ISO 11058 - Δh = 50 mm]</i>	<i>l/m²s (mm/s)</i>	<i>80 maximum</i>
<i>Characteristic opening O₉₀</i>	<i>[EN ISO 12956]</i>	<i>Mμ</i>	<i>95 maximum</i>

Article 59

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902.02, Materials, Geocomposite Type 1 for road pavement as SAMI (Stress Absorbed Membrane Interlayer), the reference to “ISO” is deleted and replaced by reference to “EN ISO 15381”. In addition the properties table is revised as follows:

<i>Properties</i>	<i>[Standard]</i>	<i>Unit</i>	<i>Parameters</i>
<i>Tensile Strength</i>	<i>EN ISO 10319</i>	<i>kN/m</i>	<i>100 / 100</i>
<i>Strength at 2% strain</i>	<i>EN ISO 10319</i>	<i>kN/m</i>	<i>90 / 90</i>
<i>Elongation at break</i>	<i>EN ISO 10319</i>	<i>%</i>	<i>3</i>
<i>Bitumen retention</i>	<i>EN ISO 1538</i>	<i>kg/m²</i>	<i>0.6</i>
<i>E-Modulus of the glass filaments</i>		<i>MPa</i>	<i>81 000</i>
<i>Mesh width of the glass filaments</i>		<i>Mm</i>	<i>40x40</i>
<i>Melting point</i>	<i>ASTM D 276</i>	<i>oC</i>	<i>up to 400°C</i>

Article 60

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902.02, a new Geocomposite Type 4 for reinforcement of soil structures is added, with description and

properties as follows:

“This must be a biaxial highly strong geocomposite material of continuous filaments non woven geotextile, reinforced by high tenacity polyester yarns and manufactured by a specialized producer of geosynthetical products as per ISO.

The products used for road embankment must be compliant with the following requirements related to physical and mechanical properties:

Properties	[Standard]	Unit	Parameters
<i>Tensile Strength</i>	<i>EN ISO 10319</i>	<i>kN/m</i>	<i>100 / 100</i>
<i>Tensile Strength at MD&CD 2% strain</i>	<i>EN ISO 10319</i>	<i>kN/m</i>	<i>20</i>
<i>Elongation at nominal strength MD&CD</i>	<i>EN ISO 10319</i>	<i>kN/m</i>	<i>10x10</i>
<i>Permeability vertical</i>	<i>[EN ISO 11058 - $\Delta h = 50 \text{ mm}$]</i>	<i>l/m^2s (mm/s)</i>	<i>55</i>
<i>Characteristic opening O_{90}</i>	<i>[EN ISO 12956]</i>	<i>$M\mu$</i>	<i>95</i>

The products to be used for road embankment, supplied by the producer, must be accompanied by a Quality Certificate and Method Statement, which must be submitted to the Engineer. The products must be supplied in protective packages against UV rays, abrasion and moisture.

Before the products are procured or supplied to the site to be used for reinforcement and stabilization of soil structures, the Engineer must be submitted for approval the patterns of material and the test results for the proposed patterns.”

Article 61

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902.03, Handling and Installation, a new paragraph is added as follows:

“Geocomposite Type 4 is used for reinforcement and stabilization of soil structures. A soil layer not more 1000mm thickness of soil shall be compacted as is described in Chapter 201.”

Article 62

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 902.04, Acceptance of Works, Payment, Items 90201 and 90202 are revised and new Items 90203, 90204, 90205 and 90206 are added as follows:

No.	Item	Unit of Measure
90201	Geotextile Type 1 for transverse subsurface drainage	Square meter
90202	Geocomposite Type 1 for road pavement as SAMI (Stress Absorbed Membrane Interlayer)	Square meter
90203	Geocomposite Type 4 for reinforcement of soil structures	Square meter

90204	Geotextile Type 2 for protection membrane for embankments and a filter membrane	Square meter
90205	Geocomposite Type 2 used for protection of banks, embankment slopes against erosion	Square meter
90206	Geocomposite Type 3 used for draining trenches, retaining walls, reinforced areas	Square meter

Article 63

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 904.02, Materials, the following bullet points are deleted

- *The strength of the concrete shall exceed 110% of design strength.*
- *The cement proportion shall be 1.5-2 times more than design requirement.*

Article 64

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 905.02, Materials shall be in accordance with: the flexible draining pipes diameter is changed from “120-200” to “100”,

Article 65

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 905.04, Acceptance of Works, Payment, the unit of measure for Item 90503 is changed as follows:

No.	Item	Unit of Measure
90503	Construction of the manhole	Number

Article 66

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 1 - General Items, “*Item 01601, Compliance with Environmental Management Plan Requirements*” is deleted

Article 67

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 2 - Site Clearing Off, Items 10201, 10203 and 10306 are revised, new Item 10202 is added and Item 10501 is deleted, as follows:

Specification Code	Description	Unit	Quantity
10201	Clearing brush, undergrowth and vegetation	Ha	1.05
10202	Removal of topsoil - stripping, loaded, transported and stockpiled for re-use	Cu.m	4200
10203	Trees clearance and dispose	No	40
10306	Removal of existing kerbs and dispose	Lin.m	303

Article 68

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 3 - Earthworks, Item 20102 is revised and new Items 20201 and 20402 are added as follows:

Specification Code	Description	Unit	Quantity
20102	Embankment construction using materials supplied from Common Excavation or Borrow	Cu.m	53573
20201	Excavation of Channels and drains outside the road cross section	Cu.m	540
20402	Planting with approved grasses and bushes	Sq.m	99300

Article 69

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 4 - Road Pavement, Items 30202, 30401, 30402, 30505, 90201, 90202 are revised and a new Item 30601 is added, as follows:

Specification Code	Description	Unit	Quantity
30202	Milling of existing asphalt pavement	Tonnes	2000
30401	Tack Coat using cutback bitumen	Litres	89400
30402	Prime-coat using cutback bitumen or bituminous emulsion	Litres	41200
30505	Base course made of coarse grained porous asphalt concrete M1 thickness 70mm	Sq.m	3996
30601	Strengthening of the shoulders with crushed stone M300 shoulder thickness 150mm	Sq.m	27600
90201	Geotextile Type 1 for transverse subsurface drainage	Sq.m	76410
90202	Geocomposite Type 1 for road pavement as SAMI	Sq.m	133807

Article 70

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 5 – Drainage, Items 50103A, 50105A, 50107A, 50301, 50302 and 50308 are revised, Item 20402 is renumbered as 20404, new Items 50103C, 50109, 50304, 50305, 50307, 50401, 50802, and 90501 are added and Items 30601, and 50801 are deleted, as follows:

Specification Code	Description	Unit	Quantity
50103A	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1000mm)	Number	6
50103C	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1600mm)	Number	2

50105A	Construction of new pipe culverts (pipe diameter 1600mm)	Lin.m	55
50107A	Extension of pipe culverts (pipe diameter 1000mm)	Lin. Metre	7
50109	Additional protection works at inlets and outlets	Sq.m	20
50301	New construction of Triangular section chute or spillway on embankment slope 0,6 wide x0.3 deep or other approved section made of precast concrete units or cast in situ	Lin.m	520
50302	New construction of Lined side drain or waterway Type 1 with precast concrete units and/or concrete cast in situ.	Lin.m	3893
50304	Construct chute entry gully, double sided entry	Number	30
50305	Construct chute entry gully, single sided entry	Number	20
50307	Construct basin to embankment chute. Waterway	Number	32
50308	New construction of Lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular 0.60 x 0.60.	Lin.m	971
50401	Miscellaneous minor concrete structures	Cu.m	10
20404	Consolidation of new trapezoidal side ditch with grass seeding	Sq.m	4250
50802	Type 2, Precast concrete kerb and backing	Lin.m	2676
90501	Construction of the filter drain	Lin.m	135

Article 71

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 6.10. Bridge Repairs km 26 + 906, Items 40204 and 40702 are renumbered 40402, 40701, Items 40802, 40901, 40903, 41201 and 41302 are revised, new Items 40401, 40601, 40602, 40803, 41101, 41205, 41303, 41402, 41403, 41807, 50802, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40401	Execution of bridge deck of 4,80, 8,66, 11,36, 18.00 m span and bearing platform	Cu.m	103.9
40402	Hand drilling in reinforced concrete	Lin.m	96.6
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	10
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	10

40701	Construction of expansion joints to new decks.	Lin.m	307.64
40802	Waterproofing to existing bridge decks	Sq.m	417
40803	Waterproofing to walkways	Sq.m	83
40901	Execution of metal safety parapets on the bridge deck	Lin.m	60.24
40903	Execution of metal safety parapets on the embankment	Lin.m	72
41101	Construction of new slope access stairs	Lin.m	12.2
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq.m	246.6
41205	Concrete spur	Lin.m	68.68
41302	Laying of 40 mm of fine asphalt Type A, M-I, on the carriageway of the bridge deck in two layers	Sq. m	81.76
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	24
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	67.76
41403	Painting of metallic pedestrian parapets	Lin.m	67.76
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	68.18
50802	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	80
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	16
50307	Construct basin to embankment chute. Waterway	Number	2

Article 72

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 6.11. Bridge Repairs km 30+091, Items 40110, 40801 and 41203 are deleted, Items 40108 and 40204 are renumbered 40107 and Items 40402, 40107, 40402, 40901, 40903, 40904, 41201 and 41205 are revised and new Items 40401, 40601, 40602, 40701, 40803, 41101, 41303, 41402, 41403, 41807, 50802, 50305, 41001 and 50307 are added as follows:

Specn. Ref	Description	Units	Quantity
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40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	125
40401	Execution of bridge deck of 4,80, 8,66, 11,36, 18.00 m span and bearing platform	Cu.m	121.08
40402	Hand drilling in reinforced concrete	Lin.m	91
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	12
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	12
40701	Construction of expansion joints to new decks.	Lin.m	479.44
40803	Waterproofing to walkways	Sq.m	98
40901	Execution of metal safety parapets on the bridge deck	Lin.m	68.36
40903	Execution of metal safety parapets on the approach embankment	Lin.m	69.28
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41101	Construction of new slope access stairs	Lin.m	16.4
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	506
41205	Concrete spur	Lin.m	68.54
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	24
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	78.56
41403	Painting of metallic pedestrian parapets	Lin.m	78.56
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	84.12
50802	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	90
50305	Construct chute entry gully, single sided entry	Number	2

41001	Construction of chutes on the slope	Lin.m	20
50307	Construct basin to embankment chute. Waterway	Number	2

Article 73

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 6.12. Bridge Repairs km 33+339, Items 40110, and 41203 are deleted, Items 40108, 40204 and 40702 are renumbered 40107, 40402 and 40802, Items 40107, 40402, 40502, 40901 and 40903 are revised and new Items 40401, 40601, 40602, 40803, 41101, 41201, 41205, 41303, 41402, 41403, 41807, 50802, 50305, 41001 and 50307 are added as follows:

Specn. Ref	Description	Units	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	123.8
40401	Execution of bridge deck of 4,80, 8,66, 11,36, 18.00 m span and bearing platform	Cu.m	102.97
40402	Hand drilling in reinforced concrete	Lin.m	92.4
40502	Provision of approach slabs at existing bridges,length 4 meters.	Sq. m	79.3
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	10
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	10
40701	Construction of expansion joints to new decks	Lin.m	390.64
40802	Waterproofing to new bridge decks	Sq.m	400
40803	Waterproofing to walkways	Sq.m	83
40901	Execution of metal safety parapets on the bridge deck	Lin.m	57.56
40903	Execution of metal safety parapets on the approach embankment	Lin.m	74.68
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41101	Construction of new slope access stairs	Lin.m	15.2
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10cm thickness	Sq.m	373.9
41205	Concrete spur	Lin.m	77.4

41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	24
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	67.76
41403	Painting of metallic pedestrian parapets	Lin.m	67.76
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	68.18
50802	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	80
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	16
50307	Construct basin to embankment chute. Waterway	Number	2

Article 74

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 6.13. Bridge Repairs km 36+893, Item 40204 is renumbered 40402, Items 40801 and 41203 are deleted, Items 40502, 40601, 40602, 40701, 40802, 40901, 40903 and 41201 are revised and new Items 40401, 40601, 40602, 40803, 41205, 41303, 41402, 41403, 41807, 50802, 50305, 41001 and 50307 are added, as follows

Specn. Ref	Description	Units	Quantity
40402	Hand drilling in reinforced concrete	Lin.m	76.5
40401	Execution of bridge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	21.76
40502	Provision of approach slabs at existing bridges, length 4,0 metres, where there is no existing approach slab	Sq. m	73.9
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	4
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	4
40701	Construction of expansion joints to new decks	Lin.m	175.52
40802	Waterproofing to new bridge decks	Sq.m	67
40803	Waterproofing to walkways	Sq.m	15
40901	Execution of metal safety parapets on the	Lin.m	70.4

	bridge deck		
40903	Execution of metal safety parapets on the approach embankment	Lin.m	9.6
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	158.7
41205	Concrete spur	Lin.m	61.88
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	8
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	11.88
41403	Painting of metallic pedestrian parapets	Lin.m	11.88
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	14.11
50802	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	20
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	16
50307	Construct basin to embankment chute. Waterway	Number	2

Article 75

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 7 - Slip Remedial Works, Items 90103, 90503 and 90504 are revised and new Items 90104, 90203, 90403 and 90502 are added as follows:

Specn. Ref	Description	Units	Quantity
90103	Provide material for new road embankment from borrow pits with soaked CBR > 6%	Cu.m	20590
90104	Construct road embankments with material from common excavation and borrow Including working with geotextile layers	Cu.m	22000
90203	Geocomposite Type 4 for reinforcement of soil structures	Sq.m	45000
90403	Construction of Connecting Slab	Cu.m	970.2
90502	Construction of the silt trap	Number	1
90503	Construction of the manhole	Number	3

90504	Manhole cover of cast iron	Number	3
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Article 76

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 8 - Signs, Markings and Guardrail, Items 70103 and 60102 are revised and New Items 70202 and 70203 are added, as follows:

Specn. Ref	Description	Units	Quantity
70103	Installation of Kilometer posts	Number	24
60102	Install new galvanised steel single-sided guardrail, type 11 DOMJ	Lin.m.	5378
70202	Anti-skid surface treatments	Sq.m.	2630
70203	Transverse Rumble Strips	Sq.m.	100

Article 77A

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 9A - Side Roads, Junctions, Bus Laybys, etc, Items 30201, 30401 and 30402 are revised as follows:

Specn. Ref	Description	Units	Quantity
30201	Regulating course of asphalt mixture	Tonnes	844
30401	Tack Coat using cutback bitumen	Litres	10139
30402	Prime-coat using cutback bitumen or bituminous emulsion	Litres	9371
50112	300x96x20 slabs spanning the lined side drains to property entrances and pedestrian accesses to bus stations	Number	2

Article 77B

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 9B, Property accesses, Items 30401, 30402 and 50112 are revised as follows:

Specn. Ref	Description	Units	Quantity
30401	Tack Coat using cutback bitumen	Litres	48
30402	Prime-coat using cutback bitumen or bituminous emulsion	Litres	2882
50112	300x96x20 slabs spanning the lined side drains to property entrances and pedestrian accesses to bus stations	Number	116

Article 77C

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 9C – Walkway, new Item 70305 is added as follows:

Item No.	Description	Unit	Quantity
70305	Walkways kerb	Lin.m	1546

Article 78

Tender Documents, Part 2 – Requirements, BoQ Lot 1, new Sub-Bill 9 - 9D, Upgrade of Singerei Road is added as follows:

Item No.	Description	Unit	Quantity
31101	Pothole patching with asphalt	Tonnes	418
30401	Tack Coat using cutback bitumen	Litres	28600
31201	Cleaning and grouting of cracks	Lin.m	5500
30504	Base course made of fine grained porous asphalt concrete M1 Thickness 60mm	Sq.m	71500
30401	Tack Coat using cutback bitumen	Litres	28600
30501	Wearing course of asphalt concrete from fine grained dense asphalt Type A M1 thickness 40mm	Sq.m	71500

Article 79

Tender Documents, Part 2 – Requirements, BoQ Lot 1, Bill 10. Schedule of Daywork Rates, Materials, Items 10.11M, 10.12M, 10.13M, 10.14M and 10.15M are revised as follows:

Item No.	Description	Unit	Quantity
10.11M	Concrete class B10	Cu.m.	10
10.12M	Concrete class B15	Cu.m.	10
10.13M	Concrete class B20	Cu.m.	10
10.14M	Concrete class B25	Cu.m.	10
10.15M	Concrete class B30	Cu.m.	10

Article 80

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 1 - General Items, “*Item 01601, Compliance with Environmental Management Plan Requirements*” is deleted

Article 81

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 2. Site Clearing Off, Items 10101, 10201, 10203, 10305 and 10307 are revised and new Item 10202 is added as follows:

Specification Code	Description	Unit	Quantity
10101	Surveying and setting out works	km	18
10201	Clearing brush, undergrowth and vegetation	Ha	0.5
10202	Removal of topsoil - stripping, loaded, transported and stockpiled for re-use	Cu.m	2000
10203	Trees clearance	No	40
10305	Remove cable type Guard Rail	Lin.m	2952
10307	Removal of kilometre posts and dispose	No	18

Article 82

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 3 - Earthworks, Items 20101, 20104, 20104A, 20106, 20401, 20403 are revised and new Items 20102 and 20402 are added as follows:

Specification Code	Description	Unit	Quantity
20101	Regrade Shoulders	Sq.m	68960
20102	Embankment construction using materials supplied from Common Excavation or Borrow	Cu.m	40400
20104	Any type of excavations, including slipped soil and benches with material transported to embankment or to spoil.	Cu.m	94936
20104A	Excavation of waste concrete of culvert demolition and transported to embankment or to spoil.	Cu.m	224.9
20106	Shape and compact subgrade	Sq.m	421354
20401	Placing of topsoil in nominal 150mm layer	Cu.m	47208
20402	Planting with approved grasses and bushes	Sq.m	314700

20403	Trimming and shaping of slopes	Sq.m	70320
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Article 83

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 4 - Road Pavement, Items 31101, 31201, 30201, 30202, 30401, 30402, 30501, 30503, 30505, 30601, 90201 and 90202 are revised as follows:

Specification Code	Description	Unit	Quantity
31101	Pothole patching with asphalt	Tonnes	100
31201	Cleaning and grouting of cracks	Lin.m	50,000
30201	Regulating course of asphalt mixture	Tonnes	26,008
30202	Milling of existing asphalt pavement	Tonnes	60,002
30401	Tack Coat using cutback bitumen	Litres	126,100
30402	Prime-coat using cutback bitumen or bituminous emulsion	Litres	23,800
30501	Wearing course of asphalt concrete from fine grained dense asphalt Type A M1 thickness 40mm	Sq.m	206,198
30503	Base course made of fine grained porous asphalt concrete M1, thickness 40mm	Sq.m	6,308
30505	Base course made of coarse grained porous asphalt concrete M1 thickness 70mm	Sq.m	1,669
30601	Strengthening of the shoulders with crushed stone M300 shoulder thickness 150mm	Sq.m	35,990
90201	Geotextile Type 1 for transverse subsurface drainage	Sq.m	32,408
90202	Geocomposite Type 1 for road pavement as SAMI	Sq.m	206,198

Article 84

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 5. Drainage, Items 50103A, 50105A, 50107A, 50107B, 50109, 50302 and 20404 are revised and New Items 50103B, 50103C, 50304, 50307, 50308, 50801, 50802 and 90501 are added as follows:

Specification Code	Description	Unit	Quantity
50103A	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1000 mm)	Number	7
50103B	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1500mm)	Number	1
50103C	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1600mm)	Number	10

50105A	Construction of new pipe culverts (pipe diameter 1600 mm)	Lin.m	105
50107A	Extension of pipe culverts (pipe diameter 1000mm)	Lin.m.	26
50107B	Extension of pipe culverts (pipe diameter 1500mm)	Lin.m.	2
50109	Additional protection works at inlets and outlets	Sq.m	40
50302	New construction of Lined side drain or waterway Type 1 with precast concrete units and/or concrete cast in situ.	Lin.m	375
50304	Construct chute entry gully, double sided entry	Number	21
50307	Construct basin to embankment chute. Waterway	Number	18
50308	New construction of Lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular 0.60 x 0.60.	Lin.m	3115
20404	Consolidation of new trapezoidal side ditch with grass seeding	Sq.m	11631
50801	Type 1, Precast concrete kerb and backing	Lin.m	109
50802	Type 2, Precast concrete kerb and backing	Lin.m	1460
90501	Construction of the filter drain	Lin.m	160.0

Article 85

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.10. Structure at km 44 + 744, Items 40107, 40402, 40701, 40901, 40903, 40904 and 41201 are revised and new Items 40401, 40601, 40602, 40802, 40803, 41205, 41303, 41402, 41403, 41807, 41004, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	318.80
40401	Execution of brdge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	39.92
40402	Hand drilling in reinforced concrete	Lin.m	98.3
40601	Filling the gaps behind the abutment with	Cu.m	5

	free draining soil		
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	5
40701	Construction of expansion joints to new decks	Lin.m	122.46
40802	Waterproofing to new bridge decks	Sq.m	149.00
40803	Waterproofing to walkways	Sq.m	35.00
40901	Execution of metal safety parapets on the bridge deck	Lin.m	28
40903	Execution of metal safety parapets on the approach embankment	Lin.m	64.00
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	128.30
41205	Concrete spur	Lin.m	32.52
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	10
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	26
41403	Painting of metallic pedestrian parapets	Lin.m	26
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	15.84
41004	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	30
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	10
50307	Construct basin to embankment chute. Waterway	Number	2

Article 86

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.11. Structure at km 46 + 863, Items 40107, 40402, 40701, 40901, 40903, 40904 and 41201 are revised and new Items 40401, 40601, 40602, 40802, 40803, 41205, 41303, 41402, 41403, 41807, 41004, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	318.8
40401	Execution of brdge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	39.92
40402	Hand drilling in reinforced concrete	Lin.m	99
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	4
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	4
40701	Construction of expansion joints to new decks	Lin.m	102.5
40802	Waterproofing to new bridge decks	Sq.m	128
40803	Waterproofing to walkways	Sq.m	50
40901	Execution of metal safety parapets on the bridge deck	Lin.m	28
40903	Execution of metal safety parapets on the approach embankment	Lin.m	64
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	146.75
41205	Concrete spur	Lin.m	6
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	10
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	24.72
41403	Painting of metallic pedestrian parapets	Lin.m	24.72
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	15.84
41004	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	30

50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	10
50307	Construct basin to embankment chute. Waterway	Number	2

Article 87

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.12. Structure at km 49 + 330, Items 40107, 40402, 40701, 40901, 40903, 40904 and 41201 are revised and new Items 40401, 40601, 40602, 40802, 41205, 41303, 41402, 41403, 41807, 41004, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	227.3
40401	Execution of brdge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	28.3
40402	Hand drilling in reinforced concrete	Lin.m	88
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	4
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	4
40701	Construction of expansion joints to new decks	Lin.m	382.08
40802	Waterproofing to new bridge decks	Sq.m	162
40803	Waterproofing to walkways	Sq.m	33
40901	Execution of metal safety parapets on the bridge deck	Lin.m	28
40903	Execution of metal safety parapets on the approach embankment	Lin.m	64
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	406.3
41205	Concrete spur	Lin.m	6

41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	10
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	24.72
41403	Painting of metallic pedestrian parapets	Lin.m	24.72
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	15.84
41004	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	30
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	10
50307	Construct basin to embankment chute. Waterway	Number	2

Article 88

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.13. Structure at km 52 + 012, Items 40107, 40109, 40402, 40701, 40901, 40903, 40904 and 41201 are revised and new Items 40401, 40601, 40602, 40802 40803, 41101, 41205, 41303, 41402, 41403, 41807, 41004, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	318.8
40109	Piles factory manufacture, transporting and installation on the site	Cu.m	41.56
40401	Execution of brdge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	39.92
40402	Hand drilling in reinforced concrete	Lin.m	98.3
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	4
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	4
40701	Construction of expansion joints to new decks	Lin.m	123.28
40802	Waterproofing to new bridge decks	Sq.m	134

40803	Waterproofing to walkways	Sq.m	50
40901	Execution of metal safety parapets on the bridge deck	Lin.m	28
40903	Execution of metal safety parapets on the approach embankment	Lin.m	64
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41101	Construction of new slope access stairs	Lin.m	8.7
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	36.6
41205	Concrete spur	Lin.m	32.3
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	10
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	24.72
41403	Painting of metallic pedestrian parapets	Lin.m	24.72
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	15.84
41004	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	30
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	10
50307	Construct basin to embankment chute. Waterway	Number	2

Article 89

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.14. Structure at km 53 + 969, Items 40107, 40402, 40701, 40901, 40903, 40904 and 41201 are revised and new Items 40401, 40601, 40602, 40802, 40803, 41101, 41205, 41303, 41402, 41403, 41807, 41004, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	227.3

40401	Execution of brdge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	28.3
40402	Hand drilling in reinforced concrete	Lin.m	88
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	4
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	4
40701	Construction of expansion joints to new decks	Lin.m	395.58
40802	Waterproofing to new bridge decks	Sq.m	133
40803	Waterproofing to walkways	Sq.m	33
40901	Execution of metal safety parapets on the bridge deck	Lin.m	28
40903	Execution of metal safety parapets on the approach embankment	Lin.m	64
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41101	Construction of new slope access stairs	Lin.m	11.4
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	425.5
41205	Concrete spur	Lin.m	36.8
41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	14
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	24
41403	Painting of metallic pedestrian parapets	Lin.m	24
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	15.84
41004	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	30
50305	Construct chute entry gully, single sided entry	Number	2
41001	Construction of chutes on the slope	Lin.m	10
50307	Construct basin to embankment chute. Waterway	Number	2

Article 90

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.14 Structure at km 59 + 233, the bill is deleted as the bridge is replaced by a culvert as shown on Drawings No. CP-DA-1

Article 91

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 6.16. Structure at km 64 + 756, Items 40107, 40402, 40701, 40801, 40802, 40901, 40903, 40904 and 41201 are revised and new Items 40401, 40601, 40602, 40803, 41205, 41303, 41402, 41403, 41807, 41004, 50305, 41001 and 50307 are added as follows:

Specification Code	Description	Unit	Quantity
40107	Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers	Sq.m	674
40401	Execution of bridge deck of 3,90, 4,80, 8,66, 11,36 m span and bearing platform	Cu.m	6.61
40402	Hand drilling in reinforced concrete	Lin.m	651.6
40601	Filling the gaps behind the abutment with free draining soil	Cu.m	15
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m	15
40701	Construction of expansion joints to new decks	Lin.m	628.98
40801	Waterproofing to existing bridge decks	Sq.m	2310
40802	Waterproofing to new bridge decks	Sq.m	18.0
40803	Waterproofing to walkways	Sq.m	465
40901	Execution of metal safety parapets on the bridge deck	Lin.m	202.68
40903	Execution of metal safety parapets on the approach embankment	Lin.m	72
40904	Painting of the poles of metal safety parapets	Lin.m	n/a
41201	Protection of the semicone slopes with reinforced concrete of 8 cm thickness over a layer of crushed stone of 10 cm thickness	Sq. m	241.5
41205	Concrete spur	Lin.m	100

41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m	18
41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m	214.8
41403	Painting of metallic pedestrian parapets	Lin.m	214.8
41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m	6.61
41004	Installation of road kerbs on the bridge decks and approach slabs	Lin.m	120
50305	Construct chute entry gully, single sided entry	Number	1
41001	Construction of chutes on the slope	Lin.m	10
50307	Construct basin to embankment chute. Waterway	Number	1

Article 92

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 8 - Signs, Markings and Guardrail, Items 70105, 70105, 70105, 70105, 70105, 70105, 70105, 70105, 70105, 70105, 70103, 70104, 70201, 70201, 70201, 70201, 70201, 70201, 70201 and 70201 are revised as follows:

Specification Code	Description	Unit	Quantity
70105	Installation of road signs Type B - 700	Number	83
70105	Installation of road signs Type D - 700	Number	6
70105	Installation of road signs Type A- 900	Number	121
70105	Installation of road signs 700x350	Number	4
70105	Installation of road signs 600x900	Number	19
70105	Installation of road signs 2250x500	Number	2
70105	Installation of road signs 2200x500	Number	26
70105	Installation of road signs 2100x1100	Number	4
70105	Installation of road signs 2600x1500	Number	3
70103	Installation of Kilometer posts	Number	42
70104	Installation of marker posts	Number	760
70201	Road marking Type 1.1.1; a continuous line of width 0.1 m	Sq.m.	4990
70201	Road marking Type 1.5; a discontinuous line with the ratio of segments and intervals 1:3, width 0.1 m	Sq.m.	1188
70201	Road marking Type 1.6; a discontinuous	Sq.m.	4

	line with the ratio of segments and intervals 3:1, width 0.1 m		
70201	Road marking Type 1.7 a discontinuous line with the ratio of segments and intervals 1:1, width 0.1 m	Sq.m.	119
70201	Road marking Type 1.8;		75
70201	1.13 road marking	Sq.m.	17
70201	1.14.1 road marking	Sq.m.	108
70201	1.16.1 road marking	Sq.m.	64
70201	1.16.2 road marking	Sq.m.	40
70201	1.16.3 road marking	Sq.m.	43
70201	1.18 road marking	Sq.m.	88
70201	1.19 road marking	Sq.m.	18
70201	1.20 road marking	Sq.m.	20
70201	1.23 road marking	Sq.m.	21
60102	Install new galvanised steel single-sided guardrail, type 11 DOMJ	Lin.m.	1778
70202	Anti-skid surface treatments	Sq.m.	2360
70203	Transverse Rumble Strips	Sq.m.	200

Article 93

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 9A, Side Roads, Junctions, Bus Laybys, etc, Items 20104, 20106, 30201, 30301, 30302, 30303, 30401, 30402, 30501, 30504 and 30506 are revised as follows:

Specification Code	Description	Unit	Quantity
20104	Excavation in all materials including slipped soil and benches with material transported to embankment or to spoil	Cu.m	2,267
20106	Shape and compact subgrade	Sq.m	4,658
30201	Regulating course of asphalt mixture	Tonnes	618
30301	Sand drainage layer	Cu.m	1,412
30302	Subbase courses of ballast or crushed limestone	Cu.m	1,936
30303	Base courses of crushed granite	Cu.m	819
30401	Tack Coat using cutback bitumen	Litres	8,908
30402	Prime-coat using cutback bitumen or bituminous emulsion	Litres	6,150
30501	Wearing course of asphalt concrete from fine grained dense asphalt Type A M1	Sq.m	18,449

	thickness 40mm		
30504	Base course made of fine grained porous asphalt concrete M1 Thickness 60mm	Sq.m	10,848
30506	Base course made of coarse grained porous asphalt concrete e M1 thickness 85mm	Sq.m	3,640
50112	300x96x20 slabs spanning the lined side drains the to property entrances and prdestrian accesses to bus stations	Number	14

Article 94

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 9B, Property Accesses, Items 30402, and 50112 are revised as follows:

Specification Code	Description	Unit	Quantity
30402	Prime-coat using cutback bitumen or bituminous emulsion	Litres	3060
50112	300x96x20 slabs spanning the lined side drains the to property entrances and prdestrian accesses to bus stations	Number	86

Article 95

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 9C, Walkways, Item 70301 is revised and a new Item 70305 is added as follows:

Specification Code	Description	Unit	Quantity
70301	Repair of existing sidewalk with asphalt concrete	Sq.m	8169
70305	Walkways kerb	Lin.m	2465

Article 96

Tender Documents, Part 2 – Requirements, BoQ Lot 2, Bill 10. Schedule of Daywork Rates, Materials, Items 10.11M, 10.12M, 10.13M, 10.14M and 10.15M are revised as follows:

Item No.	Description	Unit	Quantity
10.11M	Concrete class B10	Cu.m.	10
10.12M	Concrete class B15	Cu.m.	10
10.13M	Concrete class B20	Cu.m.	10

10.14M	Concrete class B25	Cu.m.	10
10.15M	Concrete class B30	Cu.m.	10

Article 97

Tender Documents, Part 2 – Requirements - Preamble to the Bills` of Quantities, Title Page the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

Article 98

Tender Documents, Part 2 – Requirements - Environment Management Plan, Title Page the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

Article 99

Tender Documents, Part 2 – Requirements - Road Safety Audit Findings, Title Page the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

Article 100

Tender Documents, Part 2 – Requirements - Lot 2 Diversion Roads Drawings, Title Page the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*”

Article 101

Tender Documents, Part 2 – Requirements – Lot 1 Drawings , Title Page the description of Lot 2 is changed to “*RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.*” In addition:

(a) The following Drawings have been deleted

- PDO-AT-1 Plan of the diversion road - PC 278+00 - PC284+60
- PA-AT-1 Entrance plan to the site - PC 294+76 -PC 295+89

(b) The following Drawings have been revised

- PD-DA-1 Road plan - PC 266+00-269+00
- PD-DA-3 Road plan - PC 276+00-283+00
- PD-DA-12 Road plan - PC 354+00-364+50
- PL-DA-1 Longitudinal Profile - PC 266+00 - PC 279+00
- PL-DA-2 Longitudinal Profile - PC 279+00 - PC 292+80
- PL-DA-6 Longitudinal Profile - PC 339+60 - PC 355+20
- PTT-DA-1 Typical cross sections I, II
- PTT-DA-2 Typical cross sections III, IV
- PTT-DA-3 Typical cross sections V
- CSR-DA-1 Pavement construction
- PT-DA-2 Cross Section of Earthwork - PC 276+00 - PC 278+00
- PT-DA-3 Cross Section of Earthwork - PC 278+60 - PC 279+40
- PT-DA-4 Cross Section of Earthwork - PC 280+00
- PT-DA-5 Cross Section of Earthwork - PC 280+40

- PT-DA-6 Cross Section of Earthwork - PC 281+00
- PT-DA-7 Cross Section of Earthwork - PC 281+40
- PT-DA-8 Cross Section of Earthwork - PC 282+00
- PT-DA-9 Cross Section of Earthwork - PC 282+40 - PC 283+60
- PT-DA-10 Cross Section of Earthwork - PC 284+00 - PC 286+00
- PT-DA-12 Cross Section of Earthwork - PC 295+55 - PC 295+80
- PT-DA-20 Cross Section of Earthwork - PC 330+00 - PC 330+60
- PT-DA-21 Cross Section of Earthwork - PC 331+00 - PC 331+60
- PT-DA-22 Cross Section of Earthwork - PC 332+00 - PC 332+60
- PT-DA-23 Cross Section of Earthwork - PC 333+00
- SLT-DA-1, < 5% Side drains reinforced with monolithic concrete B20 i<5%
- SLT-DA-1, > 5% Side drains reinforced with monolithic concrete B20 i>5%
- CCA-DA-1 Drainage chutes construction on shoulder
- AC-DA-1 Entrance to properties, typical
- POCR-DA-1 Plan of road - PC 266+00 - PC269+50
- RP-P-1, for all bridges. Approach to bridge at abutment 1 and 4
- PT-AT-1 Cross section PC 276+60
- PT-AT-1 Cross Section of Earthwork - PC 278+60 - PC 279+40
- PT-AT-2 Cross Section of Earthwork - PC PC 280+00
- PT-AT-3 Cross Section of Earthwork - PC 280+40
- PT-AT-4 Cross Section of Earthwork - PC 281+00
- PT-AT-5 Cross Section of Earthwork - PC 281+40
- PT-AT-6 Cross Section of Earthwork - PC 282+00-PC 282+40
- PT-AT-7 Cross Section of Earthwork - PC 283+00 - PC 284+60
- PL-AT-1 Longitudinal profile of construction - PC279+32 - PC282+01
- PT-AT-1 Road plan PC 295+00-PC 296+80
- PT-AT-1 Cross Section of Earthwork - PC 295+55- PC 295+80
- PT-AT-2 Cross Section of Earthwork - PC 296+00 - PC 296+60
- PT-AT-3 Cross Section of Earthwork - PC 297+00 - PC 297+60
- PT-AT-4 Cross Section of Earthwork - PC 298+00 - PC 298+60

(c) The following new Drawings have been added

- SLC-DA-1 Side drains reinforced, topsoil and grass seeding
- SAB-DA-1 Scheme of kerb's location type1 and type 2
- C-P-1, for all bridges, except km 36 893. RC Girders
- C-P-2, for all bridges, except km 36+893. RC Girders

Article 102

Tender Documents, Part 2 – Requirements – Lot 2 Drawings , Title Page the description of Lot 2 is changed to “RSP/W6/02: km 43+000 to km 61+000 and bridge at km 64 + 756.” In addition:

(a) The following Drawings have been deleted

- PD-DA-20 Road plan PC 642+50-649+50
- PD-DA-21 Road plan PC 649+50-656+50
- PD-DA-22 Road plan PC 656+50-666+65.7
- PL-DA-14 Longitudinal Profile - PC 639+40 - PC 655+20
- PL-DA-15 Longitudinal Profile - PC 655+20 - PC 666+65.7
- PT-DA-21 Cross Section of Earthwork- PC 644+00 - PC 654+00
- PT-DA-22 Cross Section of Earthwork PC 656+00 - PC 666+00

- POCR-DA-23 Plan of road traffic management - PC 641+00 - PC 646+00
- POCR-DA-24 Plan of road traffic management - PC 646+00 - PC 653+50
- POCR-DA-25 Plan of road traffic management - PC 653+50 - PC 660+50
- POCR-DA-26 Plan of road traffic management - PC 660+50 - PC 666+67
- IRI-DA-19 Nonstandard road sign 5.65.1, 5.64 – PC 648+63: PC 657+81
- IRI-DA-20 Nonstandard road sign 5.61.2 - PC 665+77
- IRI-DA-21 Nonstandard road sign 5.61.2 - PC 666+40
- IRI-DA-22 Nonstandard road sign 5.61.2 - PC 666+67
- P-P-6, km 59+233 Bridge, km 59+233

(b) The following Drawings have been revised

- PD-DA-2 Road plan PC 438+00445+00
- PD-DA-4 Road plan PC 455+50-466+00
- PD-DA-5 Road plan PC 466+00-476+50
- PD-DA-11 Road plan PC 525+50-536+00
- PD-DA-14 Road plan PC 557+00-567+50
- PD-DA-17 Road plan PC 581 +50-592+00
- PD-DA-18 Road plan PC 592+00-602+50
- PD-DA-19 Road plan PC 602+50-611+00
- PL-DA-1 Longitudinal Profile - PC 430+00 - PC445+00
- PL-DA-2 Longitudinal Profile - PC 445+00 -PC 460+00
- PL-DA-4 Longitudinal Profile - PC 474+00 - PC 488+00
- PL-DA-5 Longitudinal Profile - PC 488+00 - PC 502+00
- PL-DA-6 Longitudinal Profile - PC 502+00 - PC 516+00
- PL-DA-9 Longitudinal Profile - PC 544+60 - PC 560+40
- PL-DA-10 Longitudinal Profile - PC 560+40 - PC 576+20
- PL-DA-11 Longitudinal Profile - PC 576+20 .. PC 592+00
- PL-DA-12 Longitudinal Profile - PC 592+00 - PC 607+80
- PTT-DA-1 Typical cross sections I, II
- PTT-DA-2 Typical cross sections III, IV
- PTT-DA-3 Typical cross sections V, VI
- PTT-DA-4 Typical cross sections VII
- AP-DA-1 Culvert lengthening - 474+06
- SLT-DA-1 Lined drainage channel rectangular, monolithic concrete $i < 5\%$
- PD-DA-1, Lined drainage channel rectangular, monolithic concrete $i > 5\%$
- CCA-DA-1 Drainage chutes construction on shoulder
- POCR-DA-21 Plan of road traffic management - PC 599+50 - PC 606+00
- RP-P-1 Proprietary expansion joint with elastomer elements

(c) The following new Drawings have been added

- SLC-DA-1 Side drains reinforced, topsoil and grass seeding
- SAB-DA-1 Scheme of kerb's location type 1 and type 2

Article 103

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 410.01; Introduction, the following text is added “*Kerbs will be installed at the edge of the carriageway on all bridges to prevent the direct discharge of surface water over the edge of the bridge*”

Article 104

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 410.06, Acceptance of the Work, Payment the following new Item 41004 is added.

<i>No.</i>	<i>Item</i>	<i>Unit of Measure</i>
41004	<i>Installation of road kerbs on the bridge decks and approach slabs</i>	<i>Linear metre</i>

Article 105

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 702.03, Materials, the following paragraphs are added:

“e) Anti-skid surface treatments

Anti-skid surface treatments shall consist of high-friction calcined bauxite aggregate applied to surfaces in a hot thermoplastic resin screed.

Anti-skid aggregates will comply with the requirements of EN 1423.

f) Transverse Rumble Strips

Transverse rumble strips shall consist of thermoplastic markings immediately adjacent to village name plates

The rumble strips shall comply with the requirements of SM SR 1848-7, 2013 and be formed in white colour.”

Article 106

Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 702.08, Works Acceptance, Payment, a new Items 70202 and 70203 are added, as follows:

<i>No.</i>	<i>Item</i>	<i>Unit of Measure</i>
70202	Anti-skid surface treatments	Square Metre
70203	Transverse Rumble Strip	Square Metre