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**REPUBLIC OF MOLDOVA  
ROAD SECTOR PROGRAM**

**STATE ROAD ADMINISTRATION**

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**CLARIFICATION DOCUMENT No.1**

**Answers to the Requests for Clarification received  
from prospective Tenderers**

**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"*

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**Issued on 14 of July 2014**

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## Part 1 - R14 : Requests for Clarification – Design

### Question 1

**BoQ no.5 Drainage. Item No. 5.10 “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”.** Total quantity is 3196 lin. m. but on “List of chutes on the slopes” there is only 520 lin. m and 32 numbers of dissipating basins. Please indicate correct quantities of those elements (chutes and basins).

### Answer 1

BOQ Item 50301 quantity erroneously included the length of the Channel Bloc B1-18-50 in addition to the length of 520 linear meters of triangular section chute.

Bloc B1-18-50 has now been replaced by Kerb Type 2 (bloc B2-18-25), a typical kerb detail Drawing SAB-DA-1 is provided, the Technical Specification Item 50801 is revised and a new Item 50802 is added, as follows:

50801	Type 1, Precast concrete kerbing and backing	Linear Metre
50802	Type 2, Precast concrete kerbing and backing	Linear Metre

The BOQs and List of Associated Data are revised accordingly and in addition Item 50307, is added to BOQ for both Lots

50307	Construct basin to embankment chute. Water way	Number
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### Question 2

**BoQ no.5 Drainage. Drawing No. CCA-DA-1 “Drainage chutes”.** Element **B4-18-50** does not exist on the market. In Our opinion it should be precast block **B2-18-25**. Please confirm.

### Answer 2

Element B4-18-50 is removed from the drawings and is no longer used and Drawing No. CCA-DA- has been revised. The unit of measure for Item 50304 is changed from “Linear Meter” to “Number” in Specification and BOQ and Items 50304 and 50305 have been included in the BOQ for both Lots:

### Question 3

**BoQ no.3 Earthworks. Item No.3.04 “Any type of excavations, including slipped soil and benches with material transported to embankment or to spoil.** Please confirm that this Item includes also quantity of excavation for line side drains (excavation according to Technical Specification 503). If not, please indicate which Item does include those works (excavation).

### Answer 3

Please refer to Technical Specification 201.02 (a) and Item specification code 20104

### Question 4

According to **theBoQ no.6 Bridges. Item 6.10.19 “Dismantling of the metal pedestrian parapets”.** Existing pedestrian parapets on bridge decks are to be dismantled. On the drawings we can see that there are new parapets to be installed. In the BoQ there is no position for installation of new pedestrian parapets. Please provide the BoQ item for installation of new pedestrian parapets.

#### **Answer 4**

The following Items for safety parapets have been added to the BOQ for all bridges

41402	Execution of pedestrian parapets with stub foundation on the bridge deck	Lin.m
41403	Painting of metallic pedestrian parapets	Lin.m

In addition in Lot 2 the Structure at km 59 + 233 is removed from the BOQ as the bridge is replaced by a culvert as shown on Drawings No. CP-DA-1

#### **Question 5**

According to the **BoQ no.6 Bridges. Item 6.11.11- 6.11.13 “Execution of metal safety parapets ...”**. On the drawings there is four types of these element: single-side and double-side metal safety parapets on the approach embankment, single-side and double-side metal safety parapets (with and without stub foundation) on the bridge deck. Please provide us with the quantity of each type of parapets (four types)

#### **Answer 5**

Details of parapets are shown on Drawing PSCV-P-1 and quantities are given in the BOQs under specification codes 40901, 40902 and 40903 for each Lot

40901	Execution of metal safety parapets on the bridge deck	Lin.m
40902	Execution of metal safety parapets with stub foundation on the bridge deck	Lin.m
40903	Execution of metal safety parapets on the embankment	Lin.m

#### **Question 6**

**BoQ 6 Bridge Repairs km 30+091 Item No. 6.11.03 “Piles factory manufacture, transporting and installation on the site”**. The quantity in the BoQ is 21,44 m<sup>3</sup> but according to the drawings is 24,5 m<sup>3</sup> of Piles C10-35T4, 9 m<sup>3</sup> of Piles C12-35T4 and 43 m<sup>3</sup> of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

#### **Answer 6**

The correct quantity for piles is 21.44 m<sup>3</sup> and the pile caps are included in Item 40101

#### **Question 7**

**BoQ 6 Bridge Repairs km 33+339 Item No. 6.12.03 “Piles factory manufacture, transporting and installation on the site”**. The quantity in the BoQ is 59,6 m<sup>3</sup> but according to the drawings is 59 m<sup>3</sup> of Piles C12-35T4 and 43 m<sup>3</sup> of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

#### **Answer 7**

The correct quantity for the piles is 59.6 m<sup>3</sup> and the pile caps are included in Item 40101

### **Question 8**

According to the **BoQ no.6 Bridges. Item 6.10.19 “Dismantling of the metal pedestrian parapets”**. Existing pedestrian parapets on bridge decks are to be dismantled. On the drawings we can see that there are new parapets to be installed. In the BoQ there is no position for installation of new pedestrian parapets. Please provide the BoQ item for installation of new pedestrian parapets.

### **Answer 8**

Please refer to answer to Question No. 4

### **Question 9**

According to the **BoQ no.6 Bridges. Item 6.11.11- 6.11.13 “Execution of metal safety parapets ...”**. On the drawings there is four types of these element: single-side and double-side metal safety parapets on the approach embankment, single-side and double-side metal safety parapets (with and without stub foundation) on the bridge deck. Please provide us with the quantity of each type of parapets (four types).

### **Answer 9**

Please refer to answer to Question No. 5

### **Question 10**

**BoQ 6. Bridge Repairs km 44+744 Item No. 6.10.04 “Piles factory manufacture, transporting and installation on the site”**. The quantity in the BoQ is 27,5 m3 but according to the drawings is 27 m3 of Piles C10-35T4 and 19 m3 of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

### **Answer 10**

The correct quantity for piles is 27.5 m3 and the pile caps are included in Item 40101

### **Question 11**

**BoQ 6. Bridge Repairs km 46+863 Item No. 6.11.04 “Piles factory manufacture, transporting and installation on the site”**. The quantity in the BoQ is 22 m3 but according to the drawings is 22 m3 of Piles C8-35T4 and 19 m3 of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

### **Answer 11**

The quantity is 22 m3 and the pile caps are included in Item 40101

### **Question 12**

**BoQ 6. Bridge Repairs km 49+330 Item No. 6.12.04 “Piles factory manufacture, transporting and installation on the site”**. The quantity in the BoQ is 41,56 m3 but according to the drawings is 34 m3 of Piles C10-35T4, 3,5 m3 of Piles C7-35T4, 3 m3 of Piles C6-35T4 and 24 m3 of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

### **Answer 12**

The quantity is 41.56 m3 and the pile caps are included in Item 40101

### **Question 13**

**BoQ 6. Bridge Repairs km 52+012 Item No. 6.13.04 “Piles factory manufacture, transporting and installation on the site”**. The quantity in the BoQ is **543,56 m3 (!)**but according to the drawings

is 34 m3 of Piles C10-35T4, 3,5 m3 of Piles C7-35T4, 3 m3 of Piles C6-35T4 and 24 m3 of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

**Answer 13**

The correct quantity is 41.56 m3 and the pile caps are included in Item 40101

Lot 2 BOQ has to be amended as follows

40109	Piles factory manufacture, transporting and installation on the site	Cu.m	41.56
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**Question 14**

**BoQ 6. Bridge Repairs km 53+969 Item No. 6.14.04 “Piles factory manufacture, transporting and installation on the site”.** The quantity in the BoQ is 41,56 m3 but according to the drawings is 34 m3 of Piles C10-35T4, 3,5 m3 of Piles C7-35T4, 3 m3 of Piles C6-35T4 and 24 m3 of Concrete for the construction of pile cap. Please clarify what are the correct quantities of piles to be executed and correct the BoQ accordingly.

**Answer 14**

The quantity is 41.56 m3 and the pile caps are included in Item 40101

**Question 15**

**BoQno3. Earthworks, item 3.5 “Excavate materials in Borrow pit and transport to site of embankment”** quantity 33 860 Cu.m specifies material that must be obtained for embankments. Please indicate item for which this material should be used, because in item 3.02 “*Embankment construction using materials supplied from Common Excavation or Borrow*” the quantity is only 19 713 Cu.m.

**Answer 15**

The BOQ Item 20102 has been revised with correct quantities for both Lots:

20102	Embankment construction using materials supplied from Common Excavation or Borrow	Cu.m
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**Question 16**

**BoQ no4. Road Pavement, item 4.09; BQ no9. Miscellaneous works, item 9A.10, 9B.5 30401 “Prime coat using cutback bitumen”.** Technical specification no 30401 refers to “Tack coat using cutback bitumen”. Please correct the BoQ accordingly.

**Answer 16**

The Specification Code in the BOQ has been changed from 30401 to 30402 and the Technical Specification descriptions have been revised to read as follows:

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

**Question 17**

**BoQ no4. Road Pavement, item 4.10; BQ no9. Miscellaneous works, item 9A.11, 9B.6 30402 “Tack coat using cutback bitumen”.** Technical specification no 30402 refers to “Prime coat using cutback bitumen”. Please correct the BoQ accordingly.

### Answer 17

The Specification Code in the BOQ has been changed from 30402 to 30401.

Also please refer to answer to Question No. 16

### Question 18

**Roads. Drawing DTT-DA-2, 3 Typical cross section, profile transversal type IV and V** show the Crushed stone layer 22,5 cm with class of material **M600**. In technical specification no. 30302 we can find “Sub-base courses of ballast or crushed limestone **M300**”. Please clarify which material shall be used for this item.

### Answer 18

The description of Item 30302 in Specification and BOQ’s has been changed to read as follows:

30302	Sub base courses of ballast or crushed limestone M 600	Cubic Metre
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### Question 19

**BoQ no4. Road Pavements, item 4.01 “Pothole patching with asphalt” according to 31101.** In technical specification, point 311.02 the materials to be used will be in accordance to the following specification - asphalt concrete – Chapter 308. But the chapter 308 is not used. Please give the information about type of asphalt concrete to be used in Pothole patching.

### Answer 19

The reference in the Specification in Chapter 311.02 has been changed from 308 to 305

### Question 20

**BoQ no4. Road Pavements, item 4.03 “Regulating course of asphalt mixture” according to 30201.** In the technical specification there is no information about the type of the asphalt mixture to be used in this item. Please provide us with the information about type of asphalt concrete mix to be used for execution of regulating course.

### Answer 20

The Drawings and BoQ for pavement specify that the asphalt mixture shall be fine grained porous M1.

The Technical Specification Chapter 302 has been revised to include for Milling and Regulating and included in BOQ Items

30201	Regulating course of asphalt mixture	Tonne
30202	Milling of existing asphalt pavement	Tonne

### Question 21

**Technical specification Chapter 703 SIDE WALKS.** In point 703.03 there is information that “Earth works relating to sidewalks should be in accordance with chapter 201”. Please confirm that quantities of Earthworks relating to sidewalks are included in bill of quantities no. 3. Earthworks. If this is not the case please provide us with the quantities of earthworks that shall be considered in the sidewalks items and correct the BoQ accordingly.

### Answer 21

The earth works for sidewalks are included in the bill of quantities no. 3. Earthworks:

### **Question 22**

**BoQ no3. Earthworks, item no. 3.07. Placing of topsoil 150mm layer** – quantities 14 896 Cu.m. According to our calculation:  $14\,896\text{m}^3 / 0,15\text{m}$  give  $99\,306\text{m}^2$ . The length of section is 11 700m. Total quantities gave the average width of 5,0m of topsoil layer for one side of the road. It seems too much. Please confirm that the quantities for placing of topsoil are correct.

### **Answer 22**

The quantities for topsoil of 14896 m3 include the quantities for both shoulders and slopes.

### **Question 23**

Taking into consideration that the required quantity of material for topsoil is 14 896 m3 (see previous question) and that acc to **BQ no. 2. Site clearing off**, item 2.02 “**Clearing bush, undergrowth and vegetation and removal of topsoil**” is only 10 500m2 what gives **1 575m3** ( $10\,500\text{m}^2 \times 0,15\text{m}$ ) it will be missing on all section **13 320 m3** of material for Placing of topsoil. Please confirm that the Contractor have to supply the missing quantities of topsoil material.

### **Answer 23**

Two separate items have been included in the BOQ to match the Technical Specification Descriptions as follows:

10201	Clearing brush, undergrowth and vegetation	Ha
10202	Removal of topsoil - stripping, loaded, transported and stockpiled for re-use	Cu.m

### **Question 24**

On the **Drawing PTT-DA-3** is shown the detail of connection of existing pavement to the new pavement. Drawing shows the **Geocompozit PGM-G 50/50**. In the BoQ there is no item with this type of geocomposite. Please indicate the BoQ item in which should be included this material and please provide us with the technical specification with requirements for this geocomposite.

### **Answer 24**

The Technical Specifications Chapter 902 has been revised through the addition of Geocomposite Type 4 for reinforcement of soil structures and revision/addition of the following Items.

#### **902.02 Materials**

##### **GEOTEXTILE Type 1 Geotextile for transverse subsurface drainage**

Table of properties has been revised:

##### **Geocomposite Type 1 for road pavement as SAMI (Stress Absorbed Membrane Interlayer)**

Text and Table of properties has been revised:

##### **Geocomposite Type 4 for reinforcement of soil structures**

Text and Table of properties has been added:

#### **902.03 Handling and Installation**

The following paragraph has been added

**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.

#### 902.04 Acceptance of Works

Payment table has been revised 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

All references to proprietary items to be removed from the Drawings and references throughout the Drawings and BOQ have been corrected to match the Technical Specifications, as follows.

90201	Geotextile Type 1 for transverse subsurface drainage
90202	Geocomposite Type 1 for road pavement as SAMI
90203	Geocomposite Type 4 for reinforcement of soil structures

In addition changes have been made to the following section of the Technical Specifications

#### 312.01. Introduction

#### 312.02. Materials

#### 312.04. Cleaning and sealing of major cracks.

#### 312.07. Application of SAMI layer.

Payment

90202	Geocomposite Type 1 for road pavement as SAMI (Stress Absorbed Membrane Interlayer)	Square metre.
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And the BoQ for both lots have been revised to include:

90201	Geotextile Type 1 for transverse subsurface drainage	Sq.m
90202	Geocomposite Type 1 for road pavement as SAMI	Sq.m

### **Question 25**

On the **Drawings PT-AT-1 - 6 and PL-AT-1** are shown the “slip remedial works” and **geocomposite polyfelt rock PEC 95/95**. In the BoQ no 7 “Slip remedial works” there is no item with this type of geocomposite. Please indicate the BoQ item in which should be included this material and please provide us with the technical specification with requirements for this geocomposite.

### **Answer 25**

Please refer to the answer for Question No. 24

### **Question 26**

On the **Drawings PT-DA-20 – 23** is shown the **geocomposit polyfelt rock PEC 55/50**. In the BoQ there is no item with this type geocomposite. Please indicate the BoQ item in which should be included this material and please provide us with the technical specification with requirements for this geocomposite.

### **Answer 26**

Please refer to the answer for Question No. 24

### **Question 27**

On **Drawings no. RM-AT-1 and RM-AT-2** are shown construction details of In-situ connection of Slab RM-1 and RM-2. Technical specification no. 904 BORED PILES, in the point 904.04.2. *Acceptance of Works; Payments* refers to technical specification no 904.03 Construction of Connection slab per Cu.m. Please clarify in which item of the BoQ the cost of In-situ connection of Slab RM-1 and RM-2 shall be included?

### **Answer 27**

New Item 90403 has been added to BOQ for construction of connecting slab, as follows:

90403	Construction of Connecting Slab	Cu.m
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### **Question 28**

On **Drawing no. PT-AT-1 and PLD-AT-1** is shown the “Silt trap” (on the end of section of drain). Please indicate in which item of BoQ the cost of this “silt trap” should be considered.

### **Answer 28**

New Item 90502 has been added to the BOQ, as follows

90502	<b>Construction of the silt trap</b>	Number
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### **Question 29**

On **Drawing no. PT-AT-1 and PLD-AT-1** are shown **3 pcs** of Manholes -. In the BQ no. 7 ”Slip remedial works”, item 7.06. Construction of Manhole- the quantity is 3 but the Unit is **Lin.m** (linear meter). In our opinion should be “**Number**” or “**Unit**” .Please change the unit in the BoQ accordingly.

### **Answer 29**

Item 90503 unit of measure has been changed to “Number” in both the Technical Specification and BOQs

### **Question 30**

**BoQ no 9, item. 9A.15 and 9B.8 “Mounting of bridge deck slabs of reinforced concrete 6,00 m span”.** We could not find such deck slabs on the drawings provided. Please clarify which drawings refers to this BoQ item or provide the missing drawings.

### **Answer 30**

The dimensions of deck slabs are 300x96x20 and are shown on the drawing AC-DA-1.

A new Item 50112 has been added in the Specification and BOQ

50112	300x96x20 slabs spanning the lined side drains to property entrances and pedestrian accesses to bus stations	Number
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### **Question 31**

On the **Drawing no. PDO-T-1** is shown the Diversion road of length 620,0 m. When in the BoQ no.2 Site Clearing off, item 2.10 “Provide Diversion road” the quantity is “n/a” (not applicable). Please correct the BoQ accordingly.

### **Answer 31**

Drawing PDO-T-1, which was intended for technological purpose only, has been removed.

Traffic will diverted through Singerei town and there is no need for a diversion road around the landslide areas.

### **Question 32**

On the **Drawing no. PDO-T-1** are shown the Entrances to the site L=70,0m – 2 pcs. Please indicate in which item of BoQ the cost of these “Entrances to the site”.

### **Answer 32**

Please refer to answer to Question No. 31

### **Question 33**

On the **Drawing no. PA-AT-1** are shown the Entrances to the site L=34,0m – 1 pcs. Please indicate in which item of BoQ the cost of these “Entrances to the site”

### **Answer 33**

Drawing PA-AT -1, which was intended for technological purpose only, has been removed

### **Question 34**

On the **Drawing no. PDO-T-1** is shown the “Subgrade replacement platform” Please indicate in which item of BoQ the cost of this “Subgrade replacement platform” and please provide us with the the quantities and technical specification for this work.

### **Answer 34**

Please refer to answer to Question No. 31

All the earth works for the landslides are included in Bill 7. Slip Remedial Works.

### Question 35

Drainage. On Drawings PD-DA -3 and POCR-DA-3 there is a pipe culvert fi 1.0 m located in kilometer 281+27, but on Drawing CP-DA-1 there is a pipe culvert fi 1.6 m in the same kilometer. Please indicate correct diameter of this culvert.

### Answer 35

Drawings PD-DA-3 and POCR-DA-3 have been corrected to show new culvert of d=1.6m

### Question 36

BoQ no.5 Drainage. Item No. 5.03 “Construction of culvert inlets and outlets to pipe culverts (pipe diameter to be stated) m” . Please clarify.

- For which culverts refers the above item, new or existing (for extension)?
- the quantity given in this item is 4,0 number. Does it means that there are 4 inlets and 4 outlets or rather 4 number together (e.g. 2 outlets and 2 inlets)?

### Answer 36

This item refers to new culverts.

All Lot 1 and Lot 2 BOQ descriptions for 50103A, 50103B, 50103C, 50105A, 50107A, 50107B and 50111 have been revised to include the pipe diameters, as follows:

50103A	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1000mm)	Number
50103B	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1500mm)	Number
50103C	Construction of culvert inlets and outlets to pipe culverts (pipe diameter 1600mm)	Number
50105A	Construction of new pipe culverts (pipe diameter 1600mm)	Lin.m
50107A	Extension of pipe culverts (pipe diameter 1000mm)	Lin. metre
50107B	Extension of pipe culverts (pipe diameter 1500mm)	Lin.m.
50111	Construction of drop inlets to pipe culverts of diameter 1000mm	Number

In addition the List of associated data for existing bridges and culverts has been updated for both Lot 1 and Lot 2 to include the type of work to be done.

### Question 37

BoQ no.5 Drainage. Item No. 5.04 “Construction of new pipe culverts (pipe diameter to be stated)”. The quantity is 190 l.m. On the drawings provided we found only one culvert located in km 281+27 of 60.93 l.m length. Please provide us with missing drawings if there is more culverts or correct the BoQ accordingly.

### Answer 37

The correct quantity is 55 m.

### **Question 38**

**BoQ no.5 Drainage. Item No. 5.04 “Construction of new pipe culverts (pipe diameter to be stated)”.** Please confirm that this Item includes also inlets and outlets?

### **Answer 38**

Please refer to answer to Question No. 36

### **Question 39**

**BoQ no.5 Drainage. Item No. 5.05 “Extension of pipe culverts (pipe diameter to be stated)m type TN”.** Please clarify.

- Total quantity is 10 l.m., but all three drawings about “lengthening” No. AP-DA-1 show in total about 7m of “lengthening”. Are there any other culverts for extension?
- Does this item include other works shown on the drawings (rectangular concrete ditches, deck slabs etc.)?

### **Answer 39**

Please refer to answer to Question No. 36

### **Question 40**

**Drainage. Technical Specification 501.11** states: “Any additional works required shall be measured in Sq.m. and paid under the item for protection works where such an item is listed in the BoQ”.

Please indicate under which item in BoQ additional protection works should be calculated.

### **Answer 40**

New Item 50109 has been included in the BOQs for both lots as follows:

50109	Additional protection works at inlets and outlets	Sq.m
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### **Question 41**

**Drainage. Drawing SLT-DA-2** with concrete units 0.60x0.60m does not comply with BoQ Item 5.13 “New construction of lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular 0.60x0.45”. Please indicate correct size of those units.

### **Answer 41**

The BOQ description is revised to match the Technical Specification, as follows:

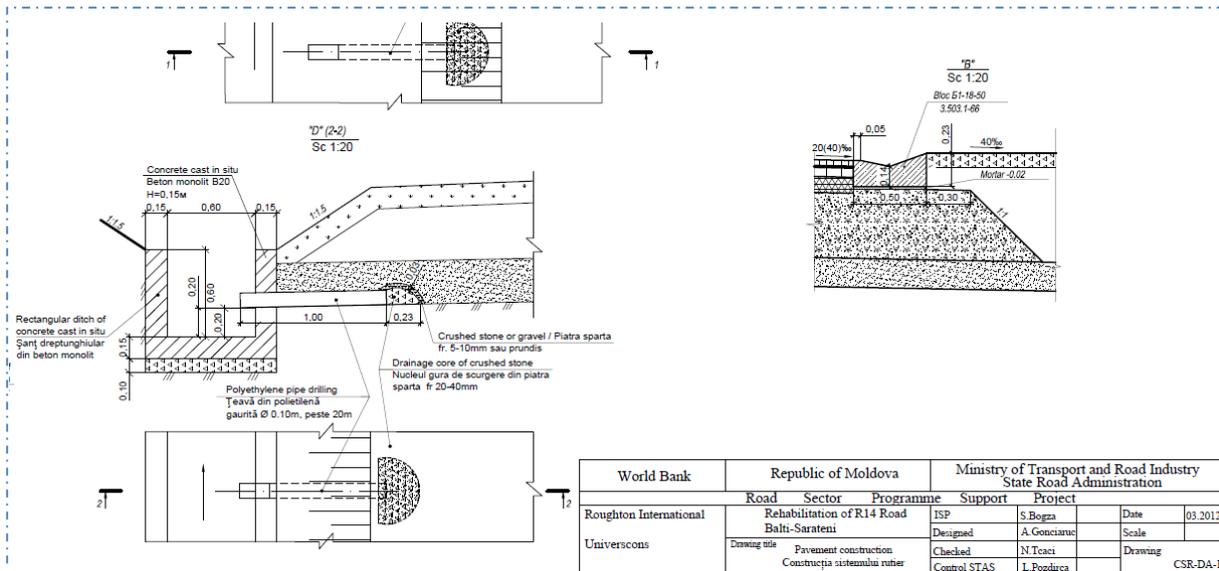
50308	New construction of Lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular 0.60 x 0.60.	Lin.m
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### **Question 42**

**Drawing CSR DA-1.** Please indicate in which item of BoQ the following elements should be priced:

- Polyethylen pipe Ø100mm (detail “D”),
- Concrete block Б1-18-50 (detail “B”). We cannot find also the quantity of those elements.

Please provide us with the missing information.



### Answer 42

Technical Specification Chapter 905.02 the description is changed as follows:

“Flexible draining pipes  $\phi 100$  - Compliance Certificate”

A new Item 90501 is included in BOQ for both lots as follows:

90501	Construction of the filter drain	Lin.m
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For clarification on block B1-18-50 please see answer for Question No. 1.

### Question 43

**BoQ 5. Drainage.** There is no Item concerning construction of chute entry gully, single and double sided which is shown on **Drawing CCA-DA-1** “*Drainage chutes construction on shoulder*”. Please clarify in which BoQ Item should the cost of the above works be included.

### Answer 43

See answer for question 2

### Question 44

**BRIDGES.** In BoQ, there is position about “Minor repair of the infrastructure and superstructure elements with reinforced concrete”. Please break down into more specific items.

6.10.01	40101	Minor repair of the infrastructure and superstructure elements with reinforced concrete	Cu.m
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For example: Repair concrete surface (abutment, piers, deck beams, ..), thickness 2-3 cm with PCC material (cement with polymers), including surface cleaning - 50 m<sup>3</sup>

### Answer 44

The Technical Specification Chapter 401.01 has been revised to read as follows:

The works described in this chapter cover the minor repair and restoration of elements of the infrastructure and superstructures and comprise:

- consolidation of piers with minor deteriorations,
- execution of works on the superstructure beam joints,
- repair works of the infrastructure elevation,
- painting works of the visible surfaces of the infrastructure and superstructures.
- repair concrete surface (abutment, piers, deck beams, ..), thickness 2-3 cm with PCC material (cement with polymers)

The minor repair works include the restoration of sections of the abutments, piers and superstructures to comply with reinforced concrete, concrete and mortar to comply with the design requirements by repairing failures of the concrete, of cracks, of exposed reinforcing bars and of spalling in the concrete, by filling in the cracks and fissures of the elements.

#### **Question 45**

##### **BoQ, 6 Bridgeworks item 6.10.17 Provision and installation of rubber bearing pads**

Please provide the information about type, capacity and displacement for the bearings.

##### **Answer 45**

Please refer to Technical Specification Chapter 415.02: Materials

Reinforced rubber bearings pads VSN 86-83

#### **Question 46**

##### **BoQ, 6 Bridgeworks item 6.10.03 Production and installation of reinforced concrete girders**

In the documentation there is no drawings of girders, or any information about dimension, class of concrete or reinforcement. Please provide the detail drawings and Technical specifications for the reinforced concrete girders.

##### **Answer 46**

Additional drawing Numbers C-P-1 and C-P-2 are included in the set of drawings.

#### **Question 47**

**BRIDGES. In BoQ, 6.10. Bridge Repairs km 26 + 908**, there is two items for laying 70 mm of fine asphalt. In the drawings the first layer is 70 mm and the second 40 mm. Please explain inconsistencies.

6.10.15	41301	Laying of 70 mm of fine asphalt Type A, M-I, on the carriageway of the bridge deck in two layers	Sq.m	423,51
6.10.16	41302	Laying of 70 mm of fine asphalt Type A, M-I, on the carriageway of the bridge deck in two layers	Sq. m	81,76

##### **Answer 47**

The description of Item 41302 in BOQ has been corrected to match the Technical Specifications as follows:

41302	Laying of 40mm of fine asphalt Type A, M-I, on the walkways	Sq. m
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#### **Question 48**

**Earthworks.** In the BoQ there are no items concerning Embankments construction. The drawing shows the detailed elements -cross-sections with construction of embankments. Please clarify.

#### **Answer 48**

Please refer to answer for Question No. 15

#### **Question 49**

**Roads. Drawing DTT-DA-2, 3, 4 Typical cross section, profile transversal type IV and V** show the Crushed stone layer 22,5 cm with class of material **M600**. In technical specification no. 30302 we can find “Subbase courses of ballast or crushed limestone **M300**”. Please clarify which material shall be used for this item.

#### **Answer 49**

Please refer to answer to Question No. 18

#### **Question 50**

**BoQ no4. Road Pavement, item 4.09; BQ no9. Miscellaneous works, item 9A.7 30401 “Prime coat using cutback bitumen 0,3l/sq.m”.** Technical specification no 30401 refers to “Tack coat using cutback bitumen, 0,25 to 0,4 l/sq.m.”. Please correct the BoQ accordingly.

#### **Answer 50**

Please refer to answer to Question No. 16

#### **Question 51**

**BoQ no.4 Road Pavement, item 4.09 “Prime coat using cutback bitumen 0,3l/sq.m”.** In technical specification no. 30402 refers to Prime coat using cutback bitumen or bituminous emulsion 0.8 to 1.0l/sq.m. Please correct the BoQ accordingly.and clarify what shall be the correct usage of material per square meter.

#### **Answer 51**

Please refer to answer to Question No. 16

#### **Question 52**

**BoQ no.4 Road Pavement, item 4.10; BQ no.9 Miscellaneous works, item 9A.8, 9B.6 30402 “Tack coat using cutback bitumen 0,6l/sq.m” .** The technical specification no 30401 refers to “Prime coat using cutback bitumen”. Please correct the BoQ accordingly.

#### **Answer 52**

Please refer to answer to Question No. 16

#### **Question 53**

**BoQ 9B Property Accesses,** In our opinion there is missing item **9B.5 Prime coat**. Please correct the BoQ..

#### **Answer 53**

Please refer to answer to Question No. 16

The revised description is included in BOQ for Lot 2 as follows:

30402	Prime-coat using cutback bitumen or bituminous emulsion, 0.6 l/sq. m.	Litres
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#### **Question 54**

**BoQ no.4 Road Pavement, item 4.10 “Tack coat using cutback bitumen 0,6l/sq.m”**. In technical specification no. 30401 “Tack Coat using cutback bitumen, 0.25 to 0.4 l/sq.m.” . Please correct the BoQ accordingly and clarify what shall be the correct usage of material per square meter.

#### **Answer 54**

Please refer to answer to Question No. 16

#### **Question 55**

**BoQ no.4 Road Pavement, item 4.01 “Pothole patching with asphalt” according to 31101**. In technical specification, point 311.02 Materials to be used will be in accordance to the following specification- asphalt concrete – chapter 308. But the chapter 308 is not used. Please give the information about type of asphalt concrete to be used in Pothole patching.

#### **Answer 55**

Please refer to answer to Question No. 19

#### **Question 56**

**BoQ no.4 Road Pavement, item 4.03 “Regulating course of asphalt mixture”** according to 30201. In the technical specification there is no information about the type of the asphalt mixture to be used in this item. Please provide us with the information about type of asphalt concrete mix to be used for execution of regulating course.

#### **Answer 56**

Please refer to answer to Question No. 20

#### **Question 57**

**Technical specification Chapter 703 SIDE WALKS**. In point 703.03 there is information that “Earth works relating to sidewalks should be in accordance with chapter 201”. Please confirm that quantities of Earthworks relating to sidewalks are included in bill of quantities no. 3. Earthworks. If this is not the case please provide us with the quantities of earthworks that shall be considered in the sidewalks items and correct the BoQ accordingly.

#### **Answer 57**

Please refer to answer to Question No. 21

#### **Question 58**

**BoQ no3. Earthworks, item no. 3.07. “Placing of topsoil 150mm layer”** – quantities 52 458 Cu.m. According to our calculation: 52 458m<sup>3</sup> / 0,15m give 349 900m<sup>2</sup>. The length of section is 20 287m. Total quantities gave average the width of 8,5m of topsoil layer for one side of the road. . It seems too much. Please confirm that the quantities for placing of topsoil are correct

#### **Answer 58**

The quantities for topsoil 52458 m<sup>3</sup> include quantities for both shoulders and slopes.

### **Question 59**

Taking into consideration that the required quantity of material for topsoil is 52 458 Cu.m. (see previous question) and that acc to BQ no. 2. Site clearing off, item 2.02 "**Clearing bush, undergrowth and vegetation and removal of topsoil**" is only 5 000m<sup>2</sup> what gives **750 m<sup>3</sup>** (5 000m<sup>2</sup>\*0,15m) it will be missing on all section **51.735m<sup>3</sup>** of material forPlacing of topsoil. Please confirm that the Contractor have to supply the missing quantities of topsoil material.

### **Answer 59**

Please refer to answer to Question No. 23

### **Question 60**

**On the Drawings PTT-DA-4** is shown the detail of connection of existing pavement to the new pavement. Drawing shows the **Geocompozit PGM-G 50/50**. In the BoQ there is no item with this type of geocomposite. Please indicate the BoQ item in which should be included this material and please provide us with the technical specification with requirements for this geocomposite.

### **Answer 60**

Please refer to answer to Question No. 24

### **Question 61**

**BoQ no 9, item. 9A.12 and 9B.8 "Mounting of bridge deck slabs of reinforced concrete 6,00 m span"**. We could not find such deck slabs on the drawings provided. Please clarify which drawings refers to this BoQ item or provide the missing drawings..

### **Answer 61**

Please refer to answer to Question No. 30

### **Question 62**

**BRIDGES.** In BoQ, there is position about "Minor repair of the infrastructure and superstructure elements with reinforced concrete". Please break down into more specific items.

6.10.01	40101	Minor repair of the infrastructure and superstructure elements with reinforced concrete	Cu.m
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For example: Repair concrete surface (abutment, piers, deck beams, ..), thickness 2-3 cm with PCC material (cement with polymers), including surface cleaning - 50 m<sup>3</sup>

### **Answer 62**

Please refer to answer to Question No. 44

### **Question 63**

**BoQ, 6 Bridgeworks item 6.10.17***Provision and installation of rubber bearing pads*

Please provide the information about type, capacity and displacement for the bearings.

### **Answer 63**

Please refer to answer to Question No. 45

#### **Question 64**

**BRIDGES.** In the Tender Drawings, List of existing bridges and culverts there are mentioned two structures in km 564+36 and in km 587+35:

<b>Nr.</b>	<b>PC+</b>	<b>Data about bridges and culverts</b>	<b>Length ml</b>	<b>Note</b>
23	564+36	Reinforced concrete bridge Pod beton armat	6,7	Repair
27	587+35	Reinforced concrete bridge Pod beton armat	4,0	Demolition

We cannot find these structures in the BoQ nor any drawings for them. Please confirm that these structures are not in the scope of works or amend the tender documents accordingly.

#### **Answer 64**

The “Note” entry for Item No. 23 in the Associated Data List of Bridges and Culverts is revised to indicate that the Bridge at PC 587+35 is to be demolished and replaced by a culvert D-1.6m

Also please refer to the answer to Question No. 36

The quantities for demolition are included in BOQ Item 20104A

#### **Question 65**

**Bill No.5 item 5.13 “Consolidation of new trapezoidal side ditch with grass seeding”** the unit is lin.me,(linear meter) and is refereed to Technical Specification 30601 “M300 shoulder surfacing material 150mm thickness” which provides item in square metre. We can’t find any drawings. Please clarify.

#### **Answer 65**

New Item is added to the Technical Specification Chapter 204 and BOQ as follows:

20404	Consolidation of new trapezoidal side ditch with grass seeding	Sq.m
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Also new Drawing No. SLC-DA-1 has been provided

#### **Question 66**

**Bill No.5 item 5.07 “Construction of drop inlets to pipe culverts of any diameter”** there is no drawing or Technical Specification for the item. Please provide the missing drawings and technical specifications.

#### **Answer 66**

Please refer to Drawing No. AP-DA-1 for details of drop inlets to pipe culverts.

Please refer to Technical Specification Chapter 501.02 for culvert units and materials standards.

#### **Question 67**

**Bill No.5 item 5.15 “Miscellaneous minor structures”** there is no drawings for this item but Technical Specification stated “The single measurement of cubic meters shall include for all necessary works to provide the complete structures as designed/shown on the Drawings” Please provide the missing drawings.

### Answer 67

BOQ Item 50401 is a provision for unspecified minor concrete structures in Lot 2

A new Item 50401 is added to Lot 1 BOQ, as follows:

50401	Miscellaneous minor concrete structures	Cu.m
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### Question 68

**Drawing SLT-DA-1.** Please indicate in which item of BoQ the following elements should be calculated:

- Perforated polyethylene plastic pipe Ø100mm
- Concrete block B1-18-50.

### Answer 68

Please refer to answer to Question No. 42 for perforated polyethylene plastic pipe Ø100mm

Please refer to answer to Question No. 1 for block B1-18-50.

### Question 69

**Drawing SLT-DA-1** "Typical lined side drain  $i>5\%$ ". Outside dimension of waterway in section 2-2 is 2.4 m but in section 3-3 inside dimension of waterway is 2.4m. On Plan view inside dimension of waterway is 2.4m and also outside dimension is  $0.9+0.6+0.9=2.4\text{m}$ . What is the correct dimension of this waterway?

### Answer 69

The correct inside dimension is 2.4 m.

Drawing SLT-DA-1.is revised and replaced in both Lot 1 and Lot 2

### Question 70

**BoQ No 5 Item 5.14** "New construction of line side drain or waterway Type3 with precast concrete units and/or concrete cast in situ including anchor blocks". We can't find any drawings for the waterway Type 3. Please provide us with the missing Drawings.

### Answer 70

Type 3 is not used and Item 50303A is removed from Lot 2 BOQ

### Question 71

**Lot 2 Bill No.5 items 5.03, 5.04, 5.05** In all these items in description we find the following statement: "(pipe diameter to be stated)", Please clarify what are the diameters of pipes for the above mention items?

### Answer 71

Please refer to answer to Question No. 36

### Question 72

On the drawings AP-DA-1 "Culvert lengthing" we can see the rectangular ditch of monolithic concrete  $b=0.6\text{m}$  and  $b=1.0\text{m}$ , there is no bill of quantity for these items. Please correct the BoQ accordingly.

**Answer 72**

Lot 2 BOQ Item 50302 quantities are revised as follows

50302	New construction of Lined side drain or waterway Type 1 with precast concrete units and/or concrete cast in situ.	Lin.m
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Drawing AP-DA-1 revised to show change b=1.0 to b=0.6

New Item 50308 is added to Lot 2 BOQ as follows:

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
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Item 50308 Description in Lot 1 BOQ is revised as follows

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
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**Question 73**

In the **Bill No.5 items 5.05 “Extension of culverts (pipe diameter to be stated) m type TN”** the quantity is 10 linear meters, but according to drawings AP-DA-1 “Culvert lengthing” there is much more than 10 linear meters. Please correct the BoQ accordingly.

**Answer 73**

Please refer to answer to Question No. 36

**Question 74**

In the content of Chapter 305.08 Asphalt Mix Design and Testing from the Technical Specifications, we have as wearing course type the Stone Mastic Asphalt with its characteristics, but included in the BOQ, in the Chapter 305.17. Acceptance procedures – Payment, page 103 and in the Drawings Typical Cross Section we have Item 30501 -Wearing course of asphalt concrete from fine grained dense asphalt Type A M1 Thickness 40mm / Square Metre.

Please confirm that the type of mixture requested to be used is the one included in the drawings and described in the Bill of Quantities.

**Answer 74**

Technical Specification Chapter 305.08 provides specifications for both SMA and HMA

The Drawings for Typical Cross Sections and the BOQ’s all define the wearing course as Fine Grained Asphalt Concrete Type A M1 – 40mm.

**Question 75**

In the second part of Requirements - Technical Specifications, chapter 904 – Bored Pile, subchapter 904.04.2 – Acceptance of works, Payment, page 188, we have the following instructions: “The works executed as indicated above and confirmed by the Engineer will be paid at the rate provided in the contract against the items shown in the bid schedule. The payment under these items shall be the whole of the payment due for the completion of all works indicated in the present chapter. Payment will be made under the items below:.....90403 Construction of Connecting Slab / CM”

Because this Item is not included in the handed BOQ, we kindly ask you to clarify where are the up mentioned works contained.

**Answer 75**

Please refer to answer to Question No. 27

**Question 76**

Regarding the works that need to be performed for the culverts Lot1, we noticed that the item 50105A Construction of new pipe culverts (pipe diameter to be stated) in the BoQ is of 190 lin. meter while in the provided details were identified only one drawing of a new construction culvert with a total pipe length of 55 lin. meters. Although the list of the existing bridges and culverts is not complete, because we identified 11 culverts in the longitudinal section, in the tender documentation were provided only 4 designs for culverts not 10 like stated in the list. Moreover, the list does not mention what kind of works need to be done at each culvert, similar to lot 2.

Taking into consideration all above mentioned we kindly ask you to clarify, if all culverts in the list are to be reconstructed or only the ones with design details and also to send the revised BoQ and the list mentioning the requested works for each culverts.

**Answer 76**

The Associated Data List of Bridges and Culverts is revised to include the additional culvert and to describe the type of works for each item.

**Question 77**

Considering the List of existing bridges and culverts from “R14 Lot 2 - `s” we have the bridges from km 528+70 and km 587+35 which will be demolished aefs specified in the list, please confirm that the two bridges will be replaced with culverts according to the drawings “Culvert construction / Constructia podetului TN 16.50 PC 528+70” and “Culvert construction / Constructia podetului TN 160-III PC 587+35”.

**Answer 77**

The Bridges at PC 528+70 and PC 587+35 are to be replaced by new culverts in accordance with the Drawings

The Associated Data List of Bridges and Culverts have been revised to indicate demolition and replacement with  $\phi$  1.6m culverts.

**Question 78**

Chapter 305.03 at general requirement is mentioned that: Asphalt will be produced in various types according to the job requirements and shall be either fine grained dense or coarse grained dense. Porous mixes are not accepted for the works.

In BOQ no. 4 pavement there are items under this chapter named Base Course made of coarse grained porous asphalt concrete M1. Please clarify the exact type of asphalt mixture to be used.

**Answer 78**

According to the design there are 3 types of asphalt: coarse grained porous asphalt concrete M1, fine grained porous asphalt concrete M1 and fine grained dense asphalt concrete Type A M1.

The Technical Specification Chapter 305.03: Requirements, have been revised to remove the text.

*“and shall be either fine grained dense or coarse grained dense. Porous mixes are not accepted for the works.”*

The Technical Specifications Chapter 305.08: Asphalt Mix Design and Testing, shall be revised to remove the text.

*“Porous asphalt shall not be used.”*

#### **Question 79**

Chapter 102 of TS we can find that there are two separate items, first one is 10201 Site Clearance including brush, underground and vegetation measured in hectares and the second one is 10202 Removal of topsoil – stripping, loaded, transported and stockpiled for re-use measured in cubic metres. We want to underline the fact that according to provisions of TS “Topsoil shall be removed at locations and to a depth to be indicated by the Engineer.” – as long as depth is not defined the unit of measure for removal of topsoil shall be cubic metre. In BoQs for Lot 1 and for Lot 2 we can find only one Item No. 2.02 Cleaning brush, undergrowth and vegetation and removal of topsoil measured in square metres and with Spec. ref. 10201. Please clarify if removal of topsoil is also included in Item 2.02 from BoQ and what is the correct unit of measure for Item No. 2.02.

#### **Answer 79**

Please refer to answer to Question No. 23

#### **Question 80**

Sub-Clause 503.02 requests for a minimum compressive strength of 25 N/mm<sup>2</sup>. On the drawings we can find the class of the concrete B20. These requirements are from two different standards. Please specify the requirement for concrete to be used to build paved waterways.

#### **Answer 80**

The Technical Specifications Chapter 505.02 has been revised to read as follows:

*Paved waterways of all types shall be constructed using B20 concrete having a maximum aggregate size of 20mm*

#### **Question 81**

Chapter 011 Bitumen makes reference to SM GOST 22245-90. Please clarify if European Union standards already approved for use in Moldova will be also applicable. We ask you kindly to inform us if, there is also possible to use materials certified based on standards in force in Moldova other than the ones from list attached in technical specification if the quality requirements are assured? (as reinforcement, geotextile, pipe and so on)

#### **Answer 81**

The appropriate standards in force in the Republic of Moldova shall be used.

#### **Question 82**

Chapter 201.03 explains following provisions: “The materials for embankment construction shall have a CBR of not less than 15% 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 30%. All fill material in embankments, except the 300 mm below formation shall be compacted to 95% MDD.” In the BoQ for Item No. 7.02, Spec. ref. 90104 Provide material for new road embankment from borrow pits with soaked CBR > 6% the requirement is CBR > 6%. Considering the fact that on Moldavian construction market the existing materials do not fulfil so high requirements. Please clarify the correct CBR requirements.

### **Answer 82**

There is no change to the Technical Specifications

### **Question 83**

Also in chapter 201.03 it is mentioned “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 8 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 97% MDD. In Sub-Clause 306.02 we can find: “The materials to be used in the reconstruction of shoulders shall be: Select fill, Select fill with PI < 8 and CBR > 25%.” Please clarify what is the requirement for the material for shoulders.

### **Answer 83**

There is no change to the Technical Specifications

### **Question 84**

Two separate Sub-Clauses of TS are describing works related to the shoulders: 201 Earthworks and 306 Removing, restoring and repairing the shoulders. There is no separate item for this type of works in BoQ. Please clarify if this type of works is included in any other item and what will be the basis for payment, also what is the requested quantity of shoulders.

### **Answer 84**

There are two separate items in the BoQ which describe different works on the shoulders:

20101 – Regrade Shoulders;

30601 – Strengthening of the shoulders with crushed stone M300. Shoulder thickness – 150mm.

### **Question 85**

Chapter 311 Pavement patching describing Item No. 4.01 Pothole patching with asphalt. refers to Chapter 307 and 308. Please correct these references.

### **Answer 85**

Please refer to the answer to Question No. 19

### **Question 86**

Sub-Clause 311.06 Pothole patching in the third sentence: “The degree of compaction shall be in accordance with the requirements of Chapter 311.” Is not clear. Please clarify what is the requirement for the compaction degree for pothole patching.

### **Answer 86**

For road patching the degree of compaction is the same as for asphalt specified in Chapter 305

### **Question 87**

Sub-Clause 014.03 of TS Geotextiles refers to the requirements of AASHTO M288, in the same Sub-Clause reference is made to EN 13249. In Sub-Clause 303.02 reference is made to AASHTO M288. Please clarify which standard is applicable for geotextile.

### **Answer 87**

The Technical Specification Chapter 014.03 has been revised as follows:

Unless otherwise indicated the geotextiles will be in accordance to EN 13249.

The Technical Specification Chapter 201.16.01 has been revised as follows:

Geotextile types conform and are designated as shown in EN 13249

The Technical Specification Chapter 303.02 Materials has been revised as follows:

Geotextile / Geosynthetics	EN 13249
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### **Question 88**

Sub-Clause 305.17 Acceptance procedures we can find: “Bitumen supplied to the site shall be routinely tested for conformity with these Specifications. For bitumen delivered in bulk, tests shall be conducted at a minimum rate of one set of tests per tanker load. For bitumen delivered in drums tests shall be conducted at a minimum rate of one set of tests per 10 tonnes received. These test rates are intended to be used for routine testing when deliveries are confirmed as uniform and of acceptable quality. Initially, the Engineer will order tests at a substantially greater intensity.” Please specify the frequency of tests for bitumen delivered in trucks. Please define the meaning of “substantially greater intensity”.

### **Answer 88**

The acceptance procedures for bitumen delivered in truck tankers is as described in the Technical Specification for bitumen delivered in bulk.

As described in the Technical Specification, the test rates are intended to be used for routine testing when deliveries are confirmed as uniform and of acceptable quality. Initially the Engineer will order tests at a substantially greater intensity, as shall be decided by the Engineer, in order to confirm that deliveries are uniform and of acceptable quality,

### **Question 89**

Chapter 312 Making good cracks and joints in the existing pavement, Sub-Clause 312.02 Materials we can find reference to non-existing Chapter 602. Please specify the requirements for geotextile for PGM-G50/50.

### **Answer 89**

The Technical Specification Chapter 312.02: Materials, has been revised as follows:

Geotextile SAMI	for	Shall comply with the requirements of Section 902 of this Specification
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The Technical Specification Chapter 312.07. Application of SAMI layer has been revised as follows:

SAMI layer shall comprise an intermediate layer between the new overlay and the old asphalt consisting of a layer of Geocomposite Type 1 complying the requirements of chapter 902 of this Specification laid into a heavy bituminous tack coat.

### **Question 90**

Chapter 312 Making good cracks and joints in the existing pavement we can find under the number 31202 an item “Provide Sami Layer to cracked areas of existing asphalt pavement”. Neither number 31202 nor such a description can be found in BoQ. Please clarify if providing SAMI layer to cracked areas of existing asphalt pavement is in scope of works and what will be the basis for the payment.

### **Answer 90**

Please refer to the answer to Question No. 24

### **Question 91**

Sub-Clause 306.03 we can find: “Shoulders will be completed with a 150mm layer of shoulder surfacing material or crushed limestone (M400),...” In the same TS, but in Sub-Clause 306.05 we can find that the payment will be made under the item “M300 shoulder surfacing material 150mm thickness”. Also in the drawings we can find crushed stone M300. Please clarify what kind of material has to be used for shoulders.

### **Answer 91**

Technical Specification Chapter 306.03, sixth paragraph has been revised to read as follows:

Shoulders will be completed with a 150mm layer of shoulder surfacing material or crushed limestone (M300), compacted at OMC to a density of not less than 98% of maximum dry density (AASHTO T180) adjacent to the carriageway and with topsoil at the back of this layer as shown on the drawings.

### **Question 92**

Chapter 205 Planting of trees and shrubs or anywhere else in the Tender Documents there is no information about the exact species of trees to be planted. For different species prices are different. Please clarify what tree species are the subject of planting.

### **Answer 92**

Please refer to the Technical Specification Chapter 205.02 Materials.

### **Question 93**

Sub-Clause 305.07 Weather conditions we can find: “To the extent practicable, the Engineer and the Contractor shall jointly agree a shutdown date, and subsequently a start up date, for asphalt laying operations such that operations are stopped for the whole of the winter period before any extensive periods of expected rain/snow and do not recommence before there is reasonable expectation of prolonged periods of suitable weather. In the absence of any agreement on the shutdown period the Engineer shall be entitled to order that asphalt shall not be laid during the period 15th October to 31st March.” Are there any other provisions related to laying of asphalt concrete courses than stated in Sub-Clause 305.07 in terms of weather conditions? Please clarify whether the agreed shutdown date can be later than 15th October or not. Please clarify whether the agreed start up date can be earlier than 31st March or not.

### **Answer 93**

The Technical Specifications Chapter 305.07 clearly states that “*to the extent practicable, the Engineer and the Contractor shall jointly agree a shutdown date, and subsequently a start up date*”, which of course depending on weather conditions, may differ from 15th October to 31st March.

### **Question 94**

According to the provisions of Sub-Clause 006.03 of Technical Specifications “The Employer will have obtained prior approvals from the owners regarding diversion/removal of services shown on the Drawings but the Contractor shall be responsible for agreeing the programme for the work and for paying any necessary costs and fees through the Contract as instructed by the Engineer.” Generally this kind of risk is Employer’s risk. Please specify how these costs will be reimbursed to the Contractor. Please specify if there are any utilities to be relocated.

**Answer 94**

No relocations are foreseen in these contracts

**Question 95**

There are two different solutions for the widening and reconstruction of the road in TS and in the drawings. In Technical Specifications, Sub-Clause 303.05 we can find – sand, crushed limestone M300 and crushed granite M1000. In the drawings – sand, crushed stone M600 and crushed stone M1000 – see typical cross sections Type III, IV and V. Please clarify what is the correct solution.

**Answer 95**

Please refer to the answer to Question No. 18

**Question 96**

Chapter 204.10. Works acceptance, Part 2 Requirements - Technical Specifications, included in the table is the Item No. 20402 - Planting with approved grasses and bushes. This Item named in the Technical Specifications is missing from the BOQ content. Please specify if it has to be included, if the answer is a negative one please inform us according the Technical Specifications, in which Item we have to tender the up mentioned seeding works.

**Answer 96**

A new Item 20402 has been added to both Lot 1 and Lot 2 BOQ's, as follows:

20402	Planting with approved grasses and bushes	Sq.m
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**Question 97**

In Part 2 of Tender Documents, Scope of Works, we can find general informations about both projects. For Lot 2 it is mentioned: “Estimated earthworks include re-grading of shoulders, excavation to 167,915 cu.m. embankment construction to 114, 895 cu.m, demolitions, top-soiling and tree planting and disposal of waste materials.” In BoQ for Lot 2 for an Item No. 3.02 Any type of excavations, including slipped soil and benches with material transported to embankment or to spoil the quantity is 100 120 cu.m. There is also no item for embankment construction. Please clarify what are correct quantities.

**Answer 97**

Please refer to answer for Question No. 15:

**Question 98**

For Lot 2, for Item No. 2.01 Surveying and setting out works the quantity is 23,7 km. In the Scope of Works we can find the following: “The total project length is approximately 20.3 km...” Calculating the total length of sections from km 43+000 to km 61+000 and from km 64+370 to km 66+657 gives the result of 20,287 km. Please confirm what is the correct quantity for this item.

**Answer 98**

The reduced distance is 18 km, Item 10101 in Lot 2 BOQ is revised:

### **Question 99**

Item No. 4.03, Spec. Code 30201 Regulating course of asphalt mixture. The chapter 302 in Technical Specifications (TS) describes only milling of the existing pavement. Please define the correct Specification reference for this item.

### **Answer 99**

Please refer to answer to Question No. 20

### **Question 100**

In Tender Documents, Part 2 – Requirements Lot 1 Drawings at the end of the table titled Side roads construction you can find the comments including Specification references. For Foundation of crushed stone stabilized with bitumen – 0,6 l/m<sup>2</sup> the Spec. ref. is 30701 and for Lower layer of asphalt stabilized with bitumen – 0,3 l/m<sup>2</sup> the Spec. ref. is 30702. In BoQ and in TS for such description we can find following Specification references: 30401 Prime-coat using cutback bitumen 0.3l/sq.m and 30402 Tack coat using cutback bitumen or bituminous emulsion 0.6l/sq.m. Please specify correct references.

### **Answer 100**

Please refer to the answer for Question No. 16

### **Question 101**

Item No. 2.10, Spec ref. 10501 Provide Diversion Road. For executing some of bridge works it will be necessary to close these bridges for the traffic. Please clarify if the basis for payment for diversion roads will be the unit rate for this item.(Lot 1)

### **Answer 101**

A new Sub-bill 9D has been added for the rehabilitation of Singerei road

### **Question 102**

In the items with the Spec. ref. 40801 Waterproofing to existing bridge decks leveling concrete or reinforced concrete is included – see provisions of TS, Sub-Clause 408.03. Please define in which items in BoQ this type of works is included, what are the thicknesses and types of materials.

### **Answer 102**

Please refer to Specification 408.01: which states that waterproofing includes levelling concrete 30mm, waterproofing, and protection concrete 40mm, and refer to Specification 408.02: Materials

### **Question 103**

Regarding the following situation: two items with the same description “Precast concrete kerbing and backing” and Specification reference 50801: 5.16 and 9A.17. Total quantity is 3477 lin.m. In the “List of Existing and Designed Kerbs” (part of the drawings) the total quantity is 1546 lin.m. Please clarify what is the correct quantity. If the correct quantity is this one from BoQ please indicate the location of remaining 1931 lin.m. Will the kerbstones be placed on mortar M100, and without backing concrete?

### **Answer 103**

Please refer to the answer to Question 1.

A new Item 70305 is added to the Specification and BOQ for walkway kerbs, as follows:

70305	Walkways kerb	Lin.m
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#### **Question 104**

The description for Item No. 4.14 Spec. ref. 30505 the thickness of the layer is 75 mm, but in TS, Chapter 305 for the same reference the thickness is 80 mm. Please clarify what is the correct thickness.(Lot 1).

#### **Answer 104**

Specification Item 30505 is revised from 80mm to 70mm, as follows:

30505	Base course made of coarse grained porous asphalt concrete M1 thickness 70mm	Sq.m
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#### **Question 105**

Item No. 4.14 Spec. ref. 30505 the thickness of the layer is 70 mm, but in TS, Chapter 305 for the same reference the thickness is 80 mm. Please clarify what is the correct thickness.(Lot 2).

#### **Answer 105**

Please refer to the answer to Question No. 104

#### **Question 106**

Item No. 5.14“Consolidation of new trapezoidal side ditch with grass seeding” and Spec. ref. is 20402. For this reference in TS we can read: “Planting with approved grasses and bushes”. Please clarify what is the correct description. (Lot 1).

#### **Answer 106**

Please refer to the answer to Question No. 65

#### **Question 107**

Item No. 5.15 “Consolidation of new trapezoidal side ditch with crushed stone” and Spec. ref. is 30601. For this reference in TS we can read: “M300 shoulder surfacing material 150mm thickness”. Please clarify what is the correct description.

#### **Answer 107**

Please refer to the answer to Question No. 65

#### **Question 108**

Item No. 5.13 “Consolidation of new trapezoidal side ditch with grass seeding” and Spec. ref. is 30601. For this reference in TS we can read: “M300 shoulder surfacing material 150mm thickness”. Please clarify what is the correct description. For item No. 5.13 unit is linear metre, but for Spec. ref. 30601 unit is square metre. Please clarify what is the correct unit.

#### **Answer 108**

Please refer to the answer to Question No. 65

### **Question 109**

Item No. 5.09 “*Repairing of culvert drop inlet structures*” Spec. ref. is 50206. In TS Table 504-1 the requirement for the strength resistance is 20.7 MPa, but reference is made to SM GOST 26633-91. This standard specifies the strength resistance in kg / cm<sup>2</sup>. Please specify the correct value in the same unit as in the above mentioned standard.

### **Answer 109**

The conversion relationship between MPa and kg/cm<sup>2</sup> is 1MPa = 10,197 kg/cm<sup>2</sup>

### **Question 110**

Included in the drawings for Lot 1 we can find ditches outside the road cross sections, in the TS there is Spec. ref. 20201 with the description “*Excavation of ditches outside the road cross sections*”. There is no item in BoQ with this Spec. ref., but in BoQ for Lot 2 there is separate Item No. 3.07. Please clarify if it is the mistake.

### **Answer 110**

Correct there are ditches outside the road cross section in Lot 1 and Item 20201 has been added to the BOQ for Lot 1, as follows:

20201	Excavation of Channels and drains outside the road cross section	Cu.m
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There are no such ditches in Lot 2

### **Question 111**

In the drawings from PT-AT-1 to PT-AT-6 in the cross sections for Lot 1 we can find Geotextile polyfelt TS 60 and Geocomposite polyfelt Rock PEC 95/95. BoQ descriptions does not contain any geocomposite, only geotextile. Also in TS names geotextile and geocomposite are used as synonyms, but these two are completely different materials. There are discrepancies in parameters between TS and drawings. Please specify the exact type for each geotextile and geocomposite in the scope of work.

### **Answer 111**

Please refer to the answer to Question No. 24

### **Question 112**

Item No. 6.10.16 Spec. ref. 41302 the thickness of the layer is 70 mm, but in TS for the same Spec. ref. 41302 thickness is 40 mm. Please clarify what is the correct thickness of this layer.

### **Answer 112**

Please refer to the answer to Questions No. 47

### **Question 113**

The items with Spec. ref. 40402 and description “*Mounting of bridge deck slabs of reinforced concrete, 6,00 m span*”. There is no description for this kind of work in TS and there are also no details in the drawings. In order to allow us to calculate the correct price please provide us with supplementary information.

### **Answer 113**

Please refer to the answer to Questions No. 30

**Question 114**

In BoQ for Lot 1 there is no item for strengthening of the shoulders with crushed stone M300. Please clarify what will be the basis for the payment for this kind of work.

**Answer 114**

Item 30601 is included in BOQ for Lot 1

30601	Strengthening of the shoulders with crushed stone M300 shoulder thickness 150mm	Sq.m
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**Question 115**

For the items with the description “*Piles factory manufacture, transporting and installation on the site.*” and Spec. ref. 40109. There are no detailed drawings and the scope of work is not described for these items. Please clarify what is the scope of work and present detailed drawings.

**Answer 115**

New table of associated data for piles, beams etc. for all bridges has been added to the drawings for Lot 1 and Lot 2

**Question 116**

In the title of the drawing PM-DA-1 for Lot 1 the type of guardrail is 11 DO-MM.2. In BoQ for Lot 1 item no. 8.27 and in BoQ for Lot 2 item no. 8.26 have Spec. ref. 60101 and the description “*Install new galvanised steel Guard Rail type 11 DO MJ*” For this Spec. ref. in Sub-Clause 601.09 of TS we can read “*Install new galvanised steel double-sided guardrail, type 11 DOMJ*”. Please clarify what type of guardrails is correct.

**Answer 116**

Revise both BOQ’s item reference from 60101 to 60102 and correct description to match the Technical Specifications, as follows

60102	Install new galvanised steel single-sided guardrail type 11 DOMJ	Lin.m.
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**Question 117**

The quantity of km posts presented in BoQ for Lot 1 and for Lot 2 shows that they are planned to be installed only on one side of the road. Is it correct?

**Answer 117**

BOQs revised to include qualities for both sides, as follows:

70103	Installation of Kilometer posts	Number
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**Question 118**

The cross sections for side drains, drawing no. SLT-DA-1, presents kerbs at the edge of the pavement, but in typical cross sections this element is missing. There is a separate list of existing and designed kerbs with a total length of 1546 lin m., but for Item No. 5.16 the quantity in BoQ is 1308 lin.m. Please clarify which quantity is correct. Please confirm if positions from the list of designed kerbs are correct.

### **Answer 118**

Please refer to the answer to Questions No. 1 and 103

### **Question 119**

Also, the cross sections for side drains, drawing no. SLT-DA-1, we find kerbs at the edge of the pavement, but in typical cross sections this element is missing. Unlike for Lot 1 there is no list of existing and designed kerbs for Lot 2. Also in BoQ for Lot 2 there is no item with the description “*Precast kerbing and backing*”. Please clarify whether this element is in the scope of works. If yes, please present the list with positions of designed kerbs.

### **Answer 119**

Please refer to the answer to Questions No. 1 and 103

### **Question 120**

In BoQs for both lots there is an Item No. 2.03 *Trees clearance*. Please inform us if you are in possession of permits for cutting the trees. If your answer is affirmative, please provide us with these documents and for Items from 10.11M to 10.15M description is “*Concrete class B10*”. Please clarify what are the correct descriptions for these items.

### **Answer 120**

The design is approved by the local authorities and all necessary permits will be granted to the winning tenderer.

The BOQ schedule of Dayworks are revised for both Lot 1 and Lot 2, as follows:

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

### **Question 121**

Item No. 5.14 in BoQ for Lot 1 is described as “*Consolidation of new trapezoidal side ditch with grass seeding*”. Specification reference for this item is 20402. In TS this reference is described as “*Planting with approved grasses and bushes*”. Please clarify what is the scope of work for this item..

### **Answer 121**

Please refer to the answer to Question No. 65

### **Question 122**

Item No. 5.13 in BoQ for Lot 2 is described as “*Consolidation of new trapezoidal side ditch with grass seeding*”, unit is linear metre. Specification reference for this item is 30601. In TS this reference is described as “*M300 shoulder surfacing material 150mm thickness*” and the unit is square metre. Please clarify what is the scope of work and unit for this item.

**Answer 122**

Please refer to the answer to Question No. 65

**Question 123**

Item No. 5.15 in BoQ for Lot 1 is described as “*Consolidation of new trapezoidal side ditch with crushed stone*”.. Specification reference for this item is 30601. In TS this reference is described as “*M300 shoulder surfacing material 150mm thickness*”.. Please clarify what is the scope of work for this item.

**Answer 123**

Please refer to the answer to Question No. 65

**Question 124**

In BoQs for bridge works for both Lots there are items with Spec. ref. 40204 and description “*Hand drilling in reinforced concrete*”. In TS for this description there is an item 40111. Please clarify what scope of work is included in the items with this description.

**Answer 124**

Item Spec. ref is changed from 40204 to 40402 in both BOQs, as described in the Technical Specification

**Question 125**

For items with description “*Construction of expansion joints to new decks (deck length less than 12 metres)*” the Spec. ref. is 40702. Please clarify if the correct one is 40701 – only this reference we can find in Technical Specifications for this description.

**Answer 125**

Item Spec. ref. is changed from 40702 to 40701 as described in the Technical Specification

**Question 126**

In BoQs for both Lots for items with description “*Painting of the visible surfaces of the infrastructure and superstructure elements using liquid Suspension of cement with polymers*” the Spec. ref. is 40108. Please clarify if the correct one is 40107 – only this reference we can find in Technical Specifications for this description.

**Answer 126**

Item Spec. ref. is changed from 40108 to 40107 as described in the Technical Specification

**Question 127**

In BoQ for Lot 1 we can find an Item No. 7.07 with the description “*Execution iron covers*”. Specification reference is 90504. In TS for this reference the description is “*Manhole cover of cast iron*”. Please clarify what is the correct description.

**Answer 127**

Change BOQ description to Manhole cover of cast iron - as is given in the specifications, as follows:

90504	Manhole cover of cast iron	Number
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### **Question 128**

In BoQs for both Lots for Item No. 2.02 “*Cleaning brush, undergrowth and vegetation and removal of topsoil*” with Spec. ref. 10201 the unit is square metre. In TS for this reference code the description is “*Site Clearance including brush, underground and vegetation*” and unit of measure is hectare. Please clarify what is the correct unit.

### **Answer 128**

Please refer to answers to Question No. 79

### **Question 129**

Included in Chapter 5 Drainage – BOQ, we have Items No. 5.03 - Construction of culvert inlets and outlets to pipe culverts (pipe diameter to be stated) m; Item No. 5.04 – Construction of new pipe culverts (pipe diameter to be stated); Item No. 5.05- Extension of pipe culverts (pipe diameter to be stated) m type TN; Taking in consideration and connected with the List of existing bridges and culverts, we ask you kindly if it is not the Employer wish to establish the pipe diameter to be stated. In both cases please clarify if for the kilometer positions km 330 + 84, km 342 + 73 and km 349 + 11 we take into consideration the double dimension.

### **Answer 129**

Please refer to answers to Question No. 36, 76, 77

### **Question 130**

In the content of chapter 503 Paved waterways page 159 we have the following items for payment:

50304 Construct chute entry gully, double sided entry / LM; 50305 Construct chute entry gully, single sided entry / N; 50306 Construct basin ti lined side drain or waterway / N; 50307 Construct basin to embankment chute. waterway / N.

Works Acceptance, measurements explains that ‘Paved spillways/chutes on the slopes and paved side drains and waterways will be measured in linear meters. Entry gullies shall be measured by number of the two types specified and erosion basins shall be measured by number. The cost of any necessary excavation, bedding, support of excavation and backfill shall be included in the costs and shall not be subject to separate measurement or payment with the exception of excavation to the net internal dimensions of side drains which will be measured and paid separately under the provisions of Chapter 201 as a part of common excavation and of waterways not contiguous to the road which will be measured to the net internal dimensions and this volume paid separately under the provisions of Chapter 202.’

We do not find these items in the Bill of Quantities, please clarify where are the works included.

In the content of chapter 202 Executions of ditches we have at page 76 20104 Excavation in all materials including slipped soil and benches with material transported to embankment or to spoil. / Cubic Metre and at page 78 the item 20201 Excavation of ditches outside the road cross section / Cubic Metre. The item 20201 is not included in the Bill of Quantities, please clarify if we consider this a component of item 20104.

### **Answer 130**

Please refer to answers to Question No. 2, 43 and 110

### **Question 131**

In Contract Documentation it is mentioned that access to the site for the Contractor will be from the Commencement Date. Please provide the detailed data regarding limits of the site planned to be handed over to the Contractor.

**Answer 131**

The limits of the site are as shown on the drawings

**Question 132**

Tender Documents, Part 1, page 69 specify the following: “Since it is likely that the Singerei bypass will be closed due the construction of the landslides remedial measures, the traffic from R14 will be directed through Singerei city. In order to ensure this traffic flow, the existing central street of Singerei will be covered with two layers of asphalt.” Please provide all the details necessary for valuation these works including (without limitation) requirements for materials, typical cross sections and quantities of works.

**Answer 132**

Please refer to answers to Question No.101

**Question 133**

The content of the drawings has part of the text not displayed correctly. This applies especially to the descriptions on the drawing no. PM-DA-1 with elements of guardrails. We did not notice this problem with the drawings for Lot 1. Please provide the new file with drawings for Lot 2.

**Answer 133**

A reprinted set of PDF drawing files for Lot 2 is issued.

**Question 134**

Some items described in Road Safety Audit Findings are not included in the Traffic Management Plan other drawings, BoQ and TS. This applies to rumble strips and anti-skid surfacing in the front of all pedestrian crossings on the length of 50-75 m in particular. Please clarify if later changes in the design are planned in order to comply with provisions of Road Safety Audit Findings. This document is higher in the priority of documents than Drawings and Technical Specifications.

**Answer 134**

Please refer to Specification 101.03 which states that:

During the preparation of the Draft Construction Drawings the Contractor shall implement the design safety improvement recommendations of the Road Safety Audit, carried out by the Employer on the Tender Design Drawings. The approved design safety improvements and further agreed necessary traffic calming measures shall be incorporated into the construction drawings.

The following new Items have been added to the Technical Specifications and to the BOQ’s for both Lot 1 and Lot 2.

70202	Anti-skid surface treatments	Sq.m.
70203	Transverse Rumble Strips	Sq.m.

**Question 135**

There is no separate item for reimbursement of expenses related to DAB. Please clarify if this payment will be included in contingencies?

**Answer 135**

In accordance with Sub-Clause 20.2 of the General Conditions of Contract, the terms of the remuneration of either the sole member or each of the three members, including the remuneration of any expert whom the DB consults, shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

**Question 136**

Please clarify if the Employer will provide the separate form for presenting the cash flow schedule.

**Answer 136**

The Employer does not have a specific separate form for the presentation of the cash flow schedule.

**Question 137**

Please clarify if separate payment for additional works will be made in case the condition of sub-base is showing that extra measures are necessary in order to meet the requirements allowing to continue the works or this risk has to be included in other rates.

**Answer 137**

Please refer to the Technical Specifications Chapters 006 and 103

**Question 138**

Please confirm if chapter 301 - Cold in place recycling of the asphalt concrete pavements is not applicable. If not, please send us the typical cross sections and cross sections with this type of work/material.

**Answer 138**

The tender design does not foresee cold in place recycling of the asphalt concrete pavements.

**Question 139**

Also, we ask you kindly to confirm if chapter 314 – Simple bituminous treatments is not applicable. If not, please send us the typical cross sections and cross sections with this type of work/material.

**Answer 139**

The tender design does not foresee simple bituminous treatments.

**Question 140**

As it is requested by the “Highway Performance Monitoring System” at chapter 3. “Significance and use”, Subchapter 3.1 - This practice outlines standard procedures for measuring longitudinal profile and calculating the International Roughness Index (IRI) for highway pavement surfaces to help produce consistent estimations of IRI for network-level pavement management; please clarify the conditions requested by the norms for a highway road in a Regional Road Project as it is classified in local regulation R14.

**Answer 140**

Please refer to Specification 310.05. IRI Requirements, 310.5.1 IRI Acceptance Criteria for the specific requirements under the current contract

### **Question 141**

In Chapter 305.08 Asphalt Mix Design and Testing from the Technical Specifications, we have as wearing course type the Stone Mastic Asphalt with its characteristics, but included in the BOQ, in the Chapter 305.17. Acceptance procedures – Payment, page 103 and in the Drawings Typical Cross Section we have Item 30501 -Wearing course of asphalt concrete from fine grained dense asphalt Type A M1 Thickness 40mm / Square Metre. Please confirm that the type of mixture requested to be used is the one included in the drawings and described in the Bill of Quantities.

### **Answer 141**

Please refer to answers to Question No. 74

### **Question 142**

In the second part of Requirements - Technical Specifications, chapter 904 – Bored Pile, subchapter 904.04.2 – Acceptance of works, Payment, page 188, we have the following instructions: “The works executed as indicated above and confirmed by the Engineer will be paid at the rate provided in the contract against the items shown in the bid schedule. The payment under these items shall be the whole of the payment due for the completion of all works indicated in the present chapter.

Payment will be made under the items below:.....90403 Construction of Connecting Slab / CM” Because this Item is not included in the handed BOQ, we kindly ask you to clarify where are the up mentioned works contained.

### **Answer 142**

Please refer to the answers to Questions No. 27

### **Question 143**

Bill no. 5 of the published Bill of quantities for Lot 1 and Lot 2 contains following items.

Lot 1

20402	Consolidation of new trapezoidal side ditch with grass seeding	Sq.m
30601	Consolidation of new trapezoidal side ditch with crushed stone	Sq.m

Lot 2

30601	Consolidation of new trapezoidal side ditch with grass seeding	Lin.m
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As having the same Technical Specification for the two lots also the numerical specification code like “30601” as well as the item description should be consistent. But as shown above, once it is named “Consolidation of new trapezoidal side ditch with crushed stone” like in Lot 1 and once “Consolidation of new trapezoidal side ditch with grass seeding” in Lot 2. Please clarify which one is the correct one.

Additionally after checking the longitudinal section of Lot 2, we noticed that there exist 1.586 m of earth ditch consolidated with crushed stone, despite the fact that the item is missing in the BoQ of Lot 2. The quantities of it have been included in above mentioned item of Lot 2. Please clarify if the ditches with crushed stone have to be tendered as a share of the item published in the tender documents or if the BoQ published until now will be reviewed.

### Answer 143

Please refer to the answer to Questions No. 65, 70 and 107

### Question 144

Due to the fact that in the tender documentation have been included only the drawings below

CSR-DA-1 Pavement construction

SLT-DA-1 Typical lined side drain  $i > 5\%$

SLT-DA-2 Typical lined side drain  $i > 5\%$

And being the details for "50302 New construction of Lined side drain or waterway Type 1 with precast concrete units and/or concrete cast in situ." and "50303 New construction of Lined side drain or waterway Type 2 with precast concrete units and/or concrete cast in situ including anchor blocks."

We kindly ask you to provide the details for following items.

30601	Consolidation of new trapezoidal side ditch with crushed stone	Sq.m
50303A	New construction of Lined side drain or waterway Type 3 with precast concrete units and/or concrete cast in situ including anchor blocks.	Lin.m

Drawing "CSR-DA-1 Pavement construction" shows the rectangular ditch with the dimensions 0.60x0.60 which is also mentioned in the TS at page 159.

50308	New construction of Lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular <b>0.60 x 0.60</b> .	<b>Number</b>
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But in the bill no. 5 of Lot 1 is included the item as shown below, having different dimensions as well as a different unit of measurement as specified in the TS.

50308	New construction of Lined side drain Type 4 with precast concrete units and/or concrete cast in situ rectangular <b>0.60 x 0.45</b> .	<b>Lin.m</b>
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Please clarify the correct dimensions and unit of measurement.

### Answer 144

Please refer to the answers to Questions 41,70, 107,

### Question 145

Please specify if the culvert at km 510+97, found in the longitudinal sections included in file "R14 Lot 2 - Drawings.pdf", but missing in the "List of existing bridges and culverts", is included in the project and has to be rehabilitated.

**Answer 145**

Please refer to the answer to Question No. 76

**Question 146**

The published drawing “CP-DA-1 Culvert construction TN-160-III PC 281+26” shows that slope protection measurements have to be executed. On page 153 of the TS is mentioned that “Any additional protection works required shall be measured in Sq.m. and paid under the item for protection works where such an item is listed in the Bill of Quantities. **If no item is listed, then the costs of additional protection shall be included in the liner metre rate for provision of the culvert.**”.

**Answer 146**

Please refer to the answer to Question No. 40

**Question 147**

Bill no. 5 for Lot 1 does not contain any item for slope protection measurements, despite the fact there exists on page 154 of the TS below mentioned item, which is included in the BoQ of Lot 2.

50109	Additional protection works at inlets and outlets	Square Metre
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Based on the fact that the working drawings will be elaborated after contract award and there might be some changes due to additional necessities which cannot be foreseen at this stage we kindly ask you to include above mentioned item in the BoQ for Lot 1.

**Answer 147**

Please refer to the answer to Question No. 40

**Question 148**

After analyzing the published tender documentation we noticed, that the Geotechnical investigation is missing. Please provide us the requested report, because this is important information that has influence for tendering the bored piles in Lot 1.

**Answer 148**

The geotechnical investigations on which the designs were based will be provided to the winning tenderer.

**Question 149**

At the end of CHAPTER 901. EARTHWORK of the TS belongs to “9. LANDSLIDE REMEDIAL WORKS” where the items for payment are mentioned some unclarities arose.

The BoQ of Lot 1 contains only item “90104 Provide material for new road embankment from borrow pits with soaked CBR > 6%”. Despite the fact that there exist in the TS on page 181 2 additional items that are necessary for the proper execution of the designed works.

90103	Provide material for new road embankment from borrow pits with soaked CBR > 6%	Cubic meter
90104	Construct road embankments with material from borrow including	Cubic meter

	working with geotextile layers	
90105	Compaction of upper surface of road embankment after excavation and prior to placement of borrow material	Square meter

Reading the item description of “90103 Provide material for new road embankment from borrow pits with soaked CBR > 6%” imposes only the provision of the needed material for the embankment. Please specify where and how the filling and compaction before filling will be paid taking into consideration that the items exist in the TS, but not in the BoQ.

#### **Answer 149**

The description of Item 90104 in the Technical Specification has been revised as follows:

90104	Construct road embankments with material from common excavation borrow including working with geotextile layers	Cubic meter
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The revised Item 90104 has been included in the BOQs Lot 1, and the existing BOQ Item 90104 has been corrected to 90103

#### **Question 150**

The published tender drawings

PLD-AT-1 Longitudinal profile of drain PC 329+90-330+77

GE-AT-1 Silt trap (right)

show the execution of a silt trap, which is also mentioned in the TS on page 191 as below mentioned item for payment.

90502	Construction of the silt trap	Number
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But in bill no. 7 Slip remedial works above mentioned item does not exist. Please clarify how the works will be paid based on the fact that the item is missing in the BoQ.

#### **Answer 150**

Please refer to the answer to Question No. 28

#### **Question 151**

Chapter 012.03. Aggregates for bituminous mixtures of the TS “The aggregates for hot mixtures will be crushed granite.” imposes that only aggregates of crushed granite are allowed to be used for asphalt mixtures. In chapter 009.02. Local Material Sources it is mentioned “The Contractor shall be concerned of limited available sources of aggregates for asphalt mixture (granite) in the Employer’s country and availability of transport means for supply.” Previous tender documentations contained the information that for example granite aggregates could be imported from Ukraine. In order to provide a competitive offer, the closest available source for granite aggregates will be taken into consideration. Due to the current instable political situation in Ukraine there might occur problems in the supply of the needed aggregates. As a consequence of this, another source for supply of granite aggregates has to be used to finish within the 24 months of construction period, implying different costs than in the tender included. Based on chapter 012.03. Aggregates for bituminous mixtures of the TS explicitly requesting crushed granite aggregates, we kindly ask you to confirm that the additional costs for transport due to the different location of the quarry (other countries, except Moldova and Ukraine) can

be recovered by the application of clause 19 “Force Majeure” included in the General Conditions of Contract.

**Answer 151**

The Technical Specifications do not specify the sources of aggregate, which are wholly the responsibility of the tenderer

**Question 152**

Tender Documents does not contain any information regarding drainage system on the bridges. Please clarify whether this type of work is not within the scope of works.

**Answer 152**

The individual bridge designs include standard provisions for discharge of surface water off the bridge.

**Question 153**

Chapter 405.06 describes also installation of bearing beams which cannot be found in the drawings. Please clarify if this type of works is included in the scope of work. If the answer is positive, please provide the Tenderers with detailed drawings.

**Answer 153**

Technical Specification 405.01 describes the works to be carried out as including “the demolition and removal of existing slabs and bearing beams, provision of crushed stone bed to the new bearing beam, the provision and placement of new bearing beams and approach slab elements and waterproofing.”

All work related to the approach slabs is paid under Item 40502

**Question 154**

Chapter 405.06 and 405.08 describe only surface waterproofing but in the drawings we can find on the approach slabs waterproofing with the thickness 5 mm. If waterproofing membrane is required also levelling and protective layers, which are not presented in the drawings, have to be placed. Please clarify what is the correct solution and in which Item we have to tender the up mentioned works.

**Answer 154**

The drawings have been revised to show bitumen waterproofing on approach slabs as per the Technical Specification.

**Question 155**

According to the provisions of Chapter 409.03 safety barriers have to be erected by bolting down to the deck but in the drawings we can find embedded base plates for welding the barriers Please clarify what method of mounting the barriers is correct

**Answer 155**

The Technical Specification has been revised to include “or welded to embedded base plates”.

**Question 156**

Chapter 413.03 says: “A 40mm layer of asphalt will be laid on the precast unit walkways of the existing bridges. The 40mm asphalt layer walkways will be laid on the waterproofing after completion of waterproofing works. Please clarify if the concrete protective layer has to be placed over

waterproofing on walkways. If the answer is positive in which Item we have to tender the up mentioned works.

**Answer 156**

Please refer to the answer to Question No. 102 and Item 40803 has been added to the BOQ for each bridge

**Question 157**

In Chapter 401.01 we can find that the works comprise also “painting works of the visible surfaces of the infrastructure and superstructures”. In Bill of Quantities, Bill No. 6.10 for Lot 1, bridge in km 26+906 there is no item for “Painting of the visible surfaces of the infrastructure and superstructure elements using liquid suspension of cement with polymers”. Please clarify in which Item we have to tender the up mentioned works.

**Answer 157**

The BOQ item reference 40108 has been changed to 40107, as per the Technical Specification.

Item 40107 has been added to the BOQ for bridge at 26+906, as follows:

41807	Dismantling of PC reinforced concrete deck slabs of 6.00, 8,66, 11,36 m length	Cu.m
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**Question 158**

In Bill of Quantities there are items with code 40904 and the description “Painting of the poles of the metal safety parapets” but in Technical Specifications Chapter 409.01 we can find: “Barriers, posts and fittings shall be hot dip galvanised.” Please clarify if painting or hot dip galvanizing is required.

Please clarify if painting or hot dip galvanizing is required.

**Answer 158**

In accordance with Technical Specification 409.01, barriers, posts and fittings shall be hot dip galvanised.

Item 40904: Painting of the poles of the metal safety parapets has been removed from the Technical Specification and marked n/a in the BOQ’s

**Question 159**

Bill No. 6 in the Bill of Quantities for Lot 1 and Lot 2 does not contain item for installing new metal pedestrian parapets on the bridge deck and stairs presented in the drawings. Please clarify in which Item we have to tender the up mentioned works

**Answer 159**

Please refer to answers to Question No.4 for pedestrian parapets.

A new Item 41101 has been added to the relevant bridge BOQ

41101	Construction of new slope access stairs	Lin.m
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**Question 160**

There is no item for filling and reshaping abutment cones. Please clarify in which Item we have to tender the up mentioned works.

### **Answer 160**

The BoQs for both lots have been revised as follows:

40601	Filling the gaps behind the abutment with free draining soil	Cu.m
40602	Reinstatement of the slope semicones and of the embankment slopes on the approaches to the bridges using free draining soil	Cu.m

### **Question 161**

Neither in Bill of Quantities nor in Technical Specifications ground beams of cones are present. Please specify the requirements for ground beams of the cones presented in the drawings.

### **Answer 161**

New item 41205 has been added to in Specification and in BOQ for the Concrete Spurs 500x400 linear meters, as shown on the Drawings and the BoQs for both lots have been revised as follows:

41205	Concrete spur	Lin.m
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### **Question 162**

The Item with the specification code number 41303 “Shoulder protection of fine asphalt Type A,M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness” is missing in Bill of Quantities for lot 1 and Lot 2 but is shown in the drawings for bridges. Please clarify in which Item we have to tender the up mentioned works.

### **Answer 162**

New Item 41302 has been added to the BOQ and the BoQs for both lots have been revised as follows:

41303	Shoulder protection of fine asphalt Type A, M-I, of 50mm thickness, over a subbase of crushed stone of 100mm thickness	Sq.m
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### **Question 163**

In the drawings for Lot 2, bridges in km 44+744, km 46+863, km 49+330, km 52+012 and km 53+969 the reinforced concrete girders differ from those existing in reality, on the road. Please clarify if replacing girders with the new ones is in the scope of works. If the answer is yes, please revise Bill of Quantities accordingly.

### **Answer 163**

Please refer to answer to Question No. 115

### **Question 164**

Chapter 101.03 describes also the procedure of preparing and approval of Construction Drawings. The last three paragraphs say:

“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.

The Engineer shall review the conformity of the Contractor’s Proposal together with the review of the Designer’s Representative, require corrections as necessary and, when he determines the Proposal to

be technically and financially acceptable, forward the submission to the Employer for approval as a Variation, as may be necessary, and (subject to the approval of the Employer), issue the Variation to the Contractor as 'Approved for Construction'.

Following the completion of the review/approval process the Contractor shall prepare the Final Construction Drawings."

What are the deadlines for Designer's review of Draft Construction Drawings presented by the Contractor, Engineer's review and submission to the Employer of these Drawings reviewed by the Designer? Please clarify the above.

#### **Answer 164**

Since the Designer's Representative is included in the Engineer's team the Technical Specification Chapter 101.03 is revised as follows:

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 the Engineer's review and submission to the Employer is 14 days.*"

#### **Question 165**

In Chapter 904.02 there is the following requirement: "The strength of the concrete shall exceed 110% of design strength". Please clarify if this requirement is only for testing the samples during the approval phase of the Job Mix Formula or it will be also applicable for samples taken during the execution of works.

#### **Answer 165**

The text "The strength of the concrete shall exceed 110% of design strength" is removed from the Specification

#### **Question 166**

Chapter 904.02 foresees the following: "The cement proportion shall be 1.5-2 times more than design requirement." Please clarify what is the minimum required cement content in kg per cubic metre in the concrete mixture delivered to the site and what is the required workability of concrete (consistence class) for this type of works.

#### **Answer 166**

The text "The cement proportion shall be 1.5-2 times more than design requirement" is removed from the Specification

#### **Question 167**

In different chapters of Technical Specifications there are references to the documents not included in a "List of standards incorporated by reference" from Appendix to general requirements specifications (pages 46-56 of Technical Specifications). Please clarify if such standards will be also applicable.

#### **Answer 167**

All standards specifically referred to in the Technical Specification are applicable.

#### **Question 168**

Are borrow pits for backfilling and embankment materials, and quarries for crushed stone materials (limestone and granite materials) satisfying the specification conditions available near project sites?

Will you allocate those borrow pits and stone quarries to the use of the contractors? We need to be clarified.

**Answer 168**

It is the responsibility of the contractor to arrange the supply of all materials.

**Question 169**

Will you allocate us stockpiling areas where unused/access soil materials from excavations/demolitions to be deposited? We need to be clarified.

**Answer 169**

It is the responsibility of the Contractor to arrange all stockpiling areas.

**Question 170**

During the site visit it is understood that in Lot-1 the portion between kms: 26+700 – 33+700 there is a land slide problem and this portion will be closed, and during the construction the traffic will be diverted to Singerei town road. This road is not in good condition. Will it be needed to temporarily rehabilitate this road? If it is needed, an additional work will come into account. How this work be included in the main works? We need to be clarified.

**Answer 170**

Please refer to answer to Question 101

**Question 171**

**BoQ no.5 Drainage. Drawings. List of designed lined side drains.** There are 5539 l.m of concrete side drains  $I < 5\%$  in the table, but in BoQ Item 5.12 “New construction of Lined side drain or waterway Type 1 with pre-cast concrete units and/or concrete cast in situ” there are only 971 l.m. Please clarify.

**Answer 171**

Please refer to the answer to Question No.144, with corrected list of side drains.

**Question 172**

In the available drawings for the rehabilitation and/or enlargement of the bridges, the works to be done are not clearly identified; for the quantities foreseen in the Bill of Quantities it is not possible to identify in which elements of the structure of the bridges the works must be done. Also, only for the lot 2, in the “List of existing bridges and culverts” is mentioned in the column “Note” the type of intervention on the bridge but it is only specified the expression “REPAIR”. Please describe in a more detailed way these works.

**Answer 172**

Please refer to the updated List of associated data for bridges for both Lot 1 and Lot 2.

**Question 173**

The quantities of works needed to make the provisory deviations on the road in order to execute the slip remedial works or in the areas where full reconstruction is required are included in the measurements of the project (Bill 9 – Side Roads) or it must be considered as a general cost of the

contract and included in the price of article 1.04 *Manage and maintain traffic throughout the period of Works?*

**Answer 173**

Please refer to the answer to Question No. 31, 101, and 148

**Question 174**

Will the Employer let the bidders know the results of the tests (logs) that were done for the project and on which are based the dimensioning of the slip remedial works (bored piles) foreseen at km 28+100 and 29+550 of lot 1?

**Answer 174**

Please refer to the answer to Question No. 148

**Question 175**

There is an incoherence in the characteristics of the material for the sub-base (sub-base crushed stone) foreseen in the drawings (calcar M600) and the technical specification applicable (30302 – Subbase Course of ballast or crushed limestone M300). Which type of material will prevail, M300 or M600?

**Answer 175**

Please refer to the answer to Question No. 18

**Question 176**

The characteristics of the asphalt mix for the “*Regulating Course of Asphalt Mixture*” (specification 30201) are the same as for the asphalt mixture for “*Base course made of fine grained porous asphalt concrete M1, thickness 400mm*” (specification 30503) ?

**Answer 176**

Please refer to the answer to Question No. 20

**Question 177**

Both in Project Drawings and BOQ, some of the asphalt layers defined as Porous type. However in the Technical Specification clause 305.03 under the General Requirements, Porous type asphalts are not allowed for the Project. Could you please clarify?

**Answer 177**

Please refer to the answer to Question No. 78

**Question 178**

In Technical Specification Clause 305.08, for preparation of asphalt mix design, it is required to follow Marshall Method and requirements and procedures of SM STB 1033-2008. Also Marshall Mix design specifications are given in the following table in this section. However Marshall Mix design and its design findings are totally different then the requirements/procedures defined in SMSTB 1033-2008. The Mix design specification given in the table can only be applicable to Marshall Design method but it will not correspond the procedures in SM STB norms. So can you please clarify which method will be followed during the design and construction time, Marshall or local norms?

**Answer 178**

Add the following to Technical Specification 305.08

“In case of discrepancy use SM STB 1033-2008”

**Question 179**

In Technical Specification Clause 305.08, compaction of hot mixes is limited to minimum 98% of Marshall Density. In clause 305.14, in the first paragraph compaction of hot mixes are limited to minimum 99% for dense mixes and 98% for porous mixes and in the fourth paragraph the compaction is limited to couple of conditions which varies from 94% to 98%. So can you please clarify which limitation is applicable?

**Answer 179**

The Specification Chapter 305.14 is changed to remove reference to 98% Marshall Density and only refer to 0.99 compaction SM STB 1115-2008.

**Question 180**

In STB 1033-2008 clause 5.7, during asphalt production and testing aggregate grading tolerance is  $\pm 3\%$  due to sampling and testing variations and errors. However this tolerance is  $\pm 2\%$  for coarse,  $\pm 1\%$  for medium size and  $\pm 0.5\%$  for fine size aggregates in Technical Specification Clause 305.08. Can we use  $\pm 3\%$  tolerance for all size aggregates as per SM STB 1033-2008?

**Answer 180**

There is no change to the specification

**Question 181**

In the BOQ "Lot 1: *RSP/W6101*: km 26+600 - km 38+300" and "Lot 2: *RSP/W6102*: km 43+000 – km 61 +000 and km 64+370 - km 66+657" Item No 30501 Wearing course of asphalt concrete from fine grained dense asphalt Type A M1 thickness 40mm . Is this item consists of Stone Mastic Asphalt (SMA) or ordinary dense asphalt?

**Answer 181**

Please refer to the answer to Question No. 74

**Question 182**

In the BOQ "Lot 1: *RSP/W6101*: km 26+600 - km 38+300" and "Lot 2: *RSP/W6102*: km 43+000 – km 61 +000 and km 64+370 - km 66+657" Item No 90201 Geotextile Fabric Type 1 in reinforcement to Embankment and Item No 90202 Geotextile Fabric Type 2 as a filter membrane.

These items are not clearly shown in the typical cross sections. Could you please clarify the application areas of these two items?

**Answer 182**

Please refer to the answer to Question No. 24

**Question 183**

In the Drawings Crushed Stone M600 is shown. However, Crushed Stone M600 is not mentioned in the BOQ and Technical Specification. Please Clarify?

**Answer 183**

Please refer to the answer to Question No. 65

**Question 184**

In the BOQ for Lot 1 and Lot 2 Item No 20101 Regrade shoulders. Is this item includes material or not?

**Answer 184**

This item does not include material.

**Question 185**

In the BOQ for Lot 1 and Lot 2 Quantity of some items which are mentioned below is not coincide with given drawings. Please clarify the Item Quantities below;

- Expansion Joint Item No 40702
- Waterproofing Membrane Item No 40801 & 40802
- For Lot 2 Bridge 52+012 Piles Item No 40109

**Answer 185**

The BoQs for both lots have been revised as follows;

40701	Construction of expansion joints to new decks.	Lin.m
40802	Waterproofing to existing bridge decks	Sq.m
40803	Waterproofing to walkways	Sq.m

**Question 186**

In the BOQ "Lot 1: *RSPIW6101*: km 26+600 - km 38+300" and "Lot 2: *RSPIW6102*: km 43+000 – km61+000 and km 64+370 - km 66+657" Bill No 10 Dayworks, the 10.11M, 10.12M,10.13M,10. 14M and 10.15M items are mentioned as a same description which name Concrete ClassB10.Are these mentioned item's description correct? If not, what are the new description of abovementioned items?

**Answer 186**

Please refer to the answer to Question No. 120

**Question 187**

In the Drawings of Lot 1 Precast Beams Dimensions are not shown. Could you please clarify?

**Answer 187**

Please refer to the answer to Question No. 172

## **Part 2 - R14 : Requests for Clarification – Procurement**

### **Question 188**

Please confirm and clarify whether it is possible to submit one package of Tender Documentation for LOT 1 and LOT 2 and if it is the case so how many Tender Securities, Letter of Tenders, Bill Of Quantities and other Tender Forms Documents should be submitted?

### **Answer 188**

In accordance with the Invitation for Tenders, Tenderers may submit tenders for one or both lots. Each lot must be priced separately. Tenderers wishing to offer any price reduction for the award of more than one lot shall specify in their Tender the price reductions applicable to each lot.

Consequently, Tenderers may either submit separate Tenders for each of Lot 1 and Lot 2, or a single Tender for both Lot 1 and Lot 2:

A single Tender for both Lot 1 and Lot 2 should comprise:

(a) Documentation common to both Lots:

- Letter of Tender indicating the price for Lot 1 and the price for Lot 2 and discount, if any, offered for the award of more than one Lot.
- Contract Data
- Power of Attorney
- Completed Schedule of Supplementary Information, Attachment 2 Tenderers - Qualifications,
- Completed Schedule of Supplementary Information, Attachment 3 - Other Information

(b) The Tender Security which may be provided for each Lot separately or as one guarantee for both Lots

(d) Lot specific documentation for each of Lot 1 and Lot 2 separately:

- Priced Bill of Quantities
- Completed Schedule of Supplementary Information, Attachment 1 - Preliminary Programme.

### **Question 189**

Please let us know if in the open tender procedure - the experience can be sustained by a Third Party Supporter. If so, we kindly ask you to send us the forms regarding the firm commitment of the person supporting the professional and technical capacity of the Tenderer.

### **Answer 189**

Please refer to the Tender Documents Part 1 - Section II: Tender Data Sheet – Clause 16.4, which clearly states *“The Employer shall consider only the experience and qualification of the Tenderers that they have gained by participation, in their own name, in the submitted previous similar contracts.”*

A tenderer may consider JVCA if it does not meet the requirements on their own.

In addition please refer to the requirements of ITT 32.4 in respect of any manufacturers or subcontractors proposed in a Tender.

### **Question 190**

In order that all Tenderers should be able to prepare complete and uniform tenders, we kindly ask you to provide us information on the descriptions of prices (activities, works, operations, etc., possibly the estimate items according to the estimating standard guidelines) with quantities, for correct evaluation of the works from the bills of quantities corresponding to the 2 lots tendered, respectively *R14\_Lot1\_Part 2 Requirements – BoQ*, and *R14\_Lot2\_Part 2 Requirements – BoQ*.

### **Answer 190**

Please refer to the Tender Documents Part 2 – Technical Specifications for Lot 1 and Lot 2.

### **Question 191**

According the Tender Data Sheet the project is divided in 2 lots and companies may participate in one lot or in both. Please confirm us that a company may participate as Sole Tenderer in Lot 1, for example, and also the same company may participate as member as a Joint Venture in Lot 2. We understand that in this case, the Sole Tenderer for Lot 1 shall comply with the requirements for Lot 1 and therefore the JV (made of the same company participating as sole tenderer for lot 1 and another company) for Lot 2, shall fulfill the requirements for Lot 2 not taking into account the requirements for Lot 1 and 2. Please confirm us this interpretation.

### **Answer 191**

A Tenderer may participate as Sole Tenderer in Lot 1 and also as a member as a Joint Venture in Lot 2. In this case the Tender from the Sole Tenderer for Lot 1 and the Tender from the Joint Venture for Lot 2 are Tenders received from separate legal entities, who must provide separate qualification references to fulfill the qualification requirements.

A company applying for Lot 1 as a single entity and applying for Lot 2 as a part of a Joint Venture will be assessed on its capacity to execute one contract for Lot 1 and a part of another contract for Lot 2 at the same time. All partners under a JVCA have joint and several liabilities and since it may happen that the company would need to execute both contracts simultaneously then, if the company aims to be qualified for both lots, it would have to provide different experience references to meet the cumulative requirements of Lot 1 and Lot 2.

### **Question 192**

Regarding audited balances for the financial year 2013. Please confirm us what documents shall we present if in the Tenderer's country of origin the deadline to submit the financial statements for 2013 is end of June, according the laws of the country.

### **Answer 192**

In the event that audited accounts are not available for the financial year 2013 you should submit the audited accounts for an additional year and you may also submit the unaudited accounts for 2013.

### **Question 193**

Please confirm us that in case of submitting tenders for the both lots, is mandatory to present different first choice candidates?

### **Answer 193**

Tenderers submitting tenders for both lots must present different First Choice candidates and different Alternative candidates for each Lot. However, a First Choice candidate for one Lot can be the Alternate candidate for another Lot and vice versa.

#### **Question 194**

In case of presenting different First Choice candidates for the both lots are we allowed to present the same alternates for both lots?

#### **Answer 194**

Please refer to the answer for Question 193.

#### **Question 195**

Is it accepted by the authority the submission of a contract comprising Bridge structural NEW execution works instead of Bridge structural rehabilitation works?

#### **Answer 195**

Yes, submission of a contract comprising Bridge **structural new execution** works instead of Bridge **structural rehabilitation works** is permissible.

#### **Question 196**

For a foreign tenderer is it accepted to submit simple copies of the documents, certified copies by a notary public, or certified copied bearing also apostle? Reference is made only to the documents needed to be attached in order to fulfill the criteria; we understand that the forms are to be submitted in original.

#### **Answer 196**

All the attached files must be submitted in original version and in the English language. If this implies an English translation, then the English translated version should be certified by a public notary.

#### **Question 197**

If we are submitting tender offer for Lot1 + Lot2, can we provide the same professional as prime for Lot 1 and alternate for Lot 2?

#### **Answer 197**

Please refer to the answer for the question 193.

#### **Question 198**

The deadline for tenders submission is 12 June 2014, the period of validity of tenders is 120 days. This means that tenders will be valid until 10 October 2014. In Invitation for Tenders it is mentioned that "*Commencement of works is planned to be in September 2014*". Please give the information about approximate Commencement Date.

#### **Answer 198**

The approximate commencement of works has been revised in Addendum No. 3

### **Question 199**

It is required to present in the Tenderer's Preliminary Programme organisation chart names and alternatives for Key Personnel. Please clarify if it is allowed to present in the organisation chart for Lot 1 as alternative Key Personnel the names presented in the organisation chart for Lot 2 and vice versa.

### **Answer 199**

Please refer to the answer for the question 193.

### **Question 200**

Please clarify if the Employer will provide the separate form for presenting the cash flow schedule.

### **Answer 200**

The Employer has no separate form for presenting the cash flow schedule.

### **Question 201**

Please clarify how to proceed in case of submitting two Tenders separately for both Lots and offering alternative price for awarding two contracts, not representing the sum of prices for Lot 1 and Lot 2. Is it necessary to submit three separate Tenders for Lot 1, Lot 2 and for Lot 1 & 2?

### **Answer 201**

Please refer to the answer to Question 188.

It is not necessary to submit three separate tenders.

If discounts are to be offered, please refer to Tender Documents, Part 1 – Section I: Instruction to Tenderers, Clause 14.

Also please refer to Tender Documents, Part 1 – Section II: Tenders Data Sheet, Clause 13.1 which states that “Alternative proposals shall not be permitted”.

### **Question 202**

In case of submission of three Tenders: first for Lot 1, second for Lot 2 and third for both Lot 1 and 2 it is necessary to present three separate Tender securities for the total amount of EUR 1 600 000,00 or only two separate Tender Securities for an amount of EUR 400 000,00 each?

### **Answer 202**

Please refer to the answer to Question No. 201.

### **Question 203**

By Particular Conditions of Contract, Part B – Specific Provisions, in the Sub-Clause 14.1 the paragraph f) is added. In this paragraph is mentioned that: “most services performed under activities undertaken in furtherance of the Contract, including in the execution of the Works, are exempt from taxes, duties, levies, contributions or other charges imposed under Laws currently or hereafter in effect in the Employer's Country (separately “tax and collectively “taxes”) during Contract.

Does this mean that we as employer do not have obligation to pay taxes and contributions for all our employees (expats and local ones) engaged on the contract in Moldova?

Does this mean that all our employees are not obliged to pay income tax and contributions in the Republic of Moldova?

**Answer 203**

The tax exemption legislation refers to loans and contracts, all individuals should be responsible for their tax payments in their country of registration.

Tenderers are advised to take prior legal/taxation advice and fully inform themselves with respect to the legal requirement applicable in Moldova, including with respect to tax liabilities.

Please refer to the General Conditions of Contract, Sub-Clause 4.10 which deems that the Contractor shall have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works and to have been satisfied before submitting the Tender as to all relevant matters, including (without limitation), (d) the Laws, procedures and labour practices of the Country

**Question 204**

Do we need to open a representative office in Republic of Moldova before we submit our bid or we can do that only after we are awarded as winner?

**Answer 204**

Only after contract award.

**Question 205**

Do we need to obtain licenses in RM before submission of the bid?

**Answer 205**

No

**Question 206**

The bid security can be opened in our bank in Ukraine? or it needs to be open through a correspondent bank in Moldova, or we need to open an account in Moldova?

**Answer 206**

Please refer to Tender Documents, Part 1, Instructions to Tenderers: Clause 19.

The requirement is that the tender security shall be from a reputable source and may be issued by such reputable source from any eligible country.

**Question 207**

The main specialists need to speak and write in English or they can use a translator?

**Answer 207**

Please refer to the General Conditions of Contract, Sub-Clause 4.3, which requires that:

“The Contractor’s Representative shall be fluent in the language for communications defined in Sub-Clause 1.4 [Law and Language]”, which in this case is the English Language.

In addition, “If the Contractor’s Representative’s delegates are not fluent in the said language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.”

**Question 208**

How do we calculate the Bill of quantities? with VAT or without VAT?

**Answer 208**

Bill of quantities will be calculated without VAT.

**Question 209**

What documents we need to provide in order to prove the qualification of the key staff?

**Answer 209**

Please refer to Part 1 - Section IV: Tender Forms, CONTRACTOR'S PERSONNEL, Resume of Proposed Personnel.

**Question 210**

What standards will be used for quality control of the materials?

**Answer 210**

Please refer to PART 2 – REQUIREMENTS TECHNICAL SPECIFICATIONS

**Question 211**

The translation of the document from Ukrainian to English needs to be notarized in Moldova or we can do that in Ukraine?

**Answer 211**

You can do that in Ukraine

**Question 212**

In Invitation for Tenders there is information regarding the source of financing the project:

“The Ministry of Transport and Road Infrastructure represented by the State Road Administration, hereinafter referred to as «the Employer», intends using part of the proceeds of a loan from the European Bank for Reconstruction and Development (the Bank) towards the cost of the Rehabilitation of R14 Balti-Sarateni Road, km 26+600 - km 38+300, km 43+000 to km 61+000 and km 64+370-km 66+657.”

Please clarify if the loan from the European Bank for Reconstruction and Development is the only source of financing for both contracts.

**Answer 212**

For this project the only financing source is European Bank for Reconstruction and Development.

**Question 213**

Tender Security; Item 19th of the Bid Specification states that the required bank guarantees shall be from a reputable source. We mean from the statement that “A bank guarantee letter from a reputable Turkish Bank is acceptable for you.” We need to be confirmed.

**Answer 213**

The requirement is that the tender security shall be from a reputable source and may be issued by such reputable source from any eligible country.

#### **Question 214**

In case the Tenderer wishes to submit an offer for both Lots, please clarify if there should be a single tender file, comprising the separate Bills of Quantities and documents that accomplish the cumulated criteria, or if each Lot should be tendered in a separate bid file, retaking the common documents where necessary

#### **Answer 214**

Please refer to the answer for Question 188

#### **Question 215**

In case the Tenderer wishes to submit an offer for both Lots, please clarify if there must be a single tender guarantee for the cumulated sum of both lots or if there can be 2 separate guarantees, one for each lot. In any case, please allow separate tender guarantees as fulfilling the qualification criteria, as contracts could be separately awarded

#### **Answer 215**

Please refer to the answer to Question No. 188.

#### **Question 216**

In case the Tenderer wishes to submit an offer for both Lots, please clarify if there must be a credit line letter for the cumulated sum of both lots or if there can be separate credit line letters, for each lot individually

#### **Answer 216**

You can submit one credit line letter for the cumulated sum of both lots or two separate letter for each lot individually.

#### **Question 217**

In case the Tenderer is a JVCA and wishes to submit an offer for both Lots, please clarify if there must be the same Leader for both Lots or if the leadership can shift between lots

#### **Answer 217**

A change of leadership of a Joint Venture constitutes a change in the legal entity.

If a Joint Venture wishes to be awarded both lots as a single contract there can be no change in the leadership from Lot 1 to Lot 2.

#### **Question 218**

According to the Section III. Evaluation and Qualification Criteria, Page 24 Table 2.5, for related positions of the qualified personnel, it has mentioned that the Tenderer will supply on a first choice candidate and an alternate. However, in Section IV Tender Forms, Contractor's Personnel Form at Page 47, we understood that only a one candidate will supply for each related positions. Hereby, for the related personnel positions an alternate candidate is necessary or not?

#### **Answer 218**

Please refer to the answer for the question 6.

#### **Question 219**

In the Qualification Table- pages 22/23, Part I - Section III: Evaluation and Qualification Criteria is mentioned at 2.3.2 Average Annual Turnover and 2.3.3 Financial resources that the partner in a JV *"Must meet Twenty five percent (30%) of the requirement"* Please Confirm us which is the correct percentage to be taken into account 25 % or 30%?

#### **Answer 219**

Thirty percent (30%) is the correct number and the change is formalized in Addendum No. 3.

#### **Question 220**

*"(a) Participation as contractor or management Contractor in at least 2 (two) contracts with in the last 5 (five) years, each with a value of at least EUR 30 (fifteen) million, that have been successfully and substantially completed and that are similar to the proposed Works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Section VI, Employer's Requirements. "*

Please confirm us if the requirement is to be considered fulfilled if: we present a contract which has a total value of at least 30 million euros but in which our participation as contractor/partner was only for a certain percentage of the amount. Or is the requirement considered to be fulfilled only if our participation as contractor/partner in JV reaches the amount of 30 million euros?

#### **Answer 220**

The requirement will be considered fulfilled only if your participation as contractor/partner in JV is for at least 30 million Euro

**Part 3 - R14 : Requests for Clarification – Other Miscellaneous Changes**

- (a) Specification Chapter 016. Compliance with Environmental Management Plan Requirements

**Payment**

The costs and expenses for compliance with the Environmental Management Plan Requirements shall be included in the rates and prices entered by the Contractor in the Bills of Quantities.

Consequently Item 01601 is deleted from the BOQ's for both Lots

- (b) Section from km 64+370 to km 66+657

Agreement has been made with MCC that the road section from km 64+370 to km 66+657, excluding the Structure at km 64 + 756, would be funded under an existing MCC contract.

Consequently the section from km 64+370 to km 66+657, excluding the Structure at km 64 + 756, has been excluded from the scope of the works and the Lot 2 Drawings and BoQ have been revised accordingly.

- (c) All the above revisions, corrections and modifications are included in Addendum No 3