

**REPUBLIC OF MOLDOVA
ROAD SECTOR PROGRAM**

STATE ROAD ADMINISTRATION

CLARIFICATION DOCUMENT No.1

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

Road Rehabilitation Works under two Contracts

- Contract RSP/W6/03:
Rehabilitation of R16 Balti – Falesti - Sculeni Road km 4+800 - km 30+270
- Contract RSP/W6/04:
Rehabilitation of R16 Balti – Falesti - Sculeni Road km 30+270 - km 59+480

ref: Tendering No. RSP/2013/OT/W6/03-04

Issued on 31 January, 2015

Part 1 – R16 : Requests for Clarification - Design

Question 1

LOT 1 - bridge km 18+778 -Please confirm whether the intersection of the diversion road with the railway, will be made at the same level with the railway level.

In this respect, please indicate:

- the width of the carriageway along the length of the diversion road.
- day / night time signaling for the access on the diversion road;
- Which is the level difference in the area of the future intersection and the railway level, between the natural level of the soil and the upper level of the railway.
- The nature of the garment that will run on the diversion road (the proposed road system).
- the solution regarding the signaling of the intersection at the railway level.
- What is the contracting authority's proposal for the intersection arrangement in the railway area.
- the solution regarding the land expropriation issue which is necessary in order to perform the diversion road. Please indicate the location of the borrow pit for the earthwork.
- please indicate the location where the materials resulted from the demolition of the diversion road will be placed.

Answer 1

- The diversion road will be at the same level with railway level - please refer to drawing No. R16-2.1-B_2-2.
- The width of the carriageway along the length of the diversion road will be 6.0m, and shoulders of 1.0m. Drawing No. PTJR-01 showing the arrangement for the whole length of the diversion including details of the connections to the road at both ends of the diversion has been revised and additional drawings No. PTJR-01 and PTJR-05 have been added.
- Day/night time signaling is to be provided in accordance with applicable Moldovan methodological norms for works within the ROW as specified in Technical Specifications Chapter 007 [Traffic Management].
- The level of the temporary diversion at the rail crossing will be at the same level as the rails.
- The road system on the diversion road is detailed on the revised drawings No PTJR-01, PTJR-02, PTJR-03, PTJR-04 and PTJR-05,
- For details of signaling for railway crossing please refer to Annex - Associated Data No. 26 (Temporary Railway Crossing at km 18+778).
- A new item No.40005 has been included in Bill No.400 for the intersection of the diversion road, railway and temporary signaling of the railway crossing: installation of traffic lights and barriers.
- All necessary land including the diversion road will be provided by the Employer.

The location of the borrow pit for earthworks is the responsibility of the Contractor; please refer to chapter 201 of the Technical Specifications.

The stockpiling location for materials resulted from the demolition of the diversion road is the responsibility of the Contractor; please refer to Chapter 201 of the Technical Specifications.

Question 2

RSP/W6/03: Drawings no. ISCS-RW-01 and ISCS-RW-02 show the details of construction of in-situ connection Slabs RM-1 and RM-2. There is no such item in Bill of Quantities. Please correct the Bill of Quantities accordingly.

Answer 2

New Items No. 90402.1 and 90402.2 have been added to both in the Bill of Quantities and the Technical Specification.

Question 3

RSP/W6/03: We can't find the drawings for „Slip Remedial Works km 9+640 to km 10+050" and therefore we are not able to calculate item. 90502 Construction of the silt trap. (Bill of Quantities No 900) for this location. Please provide the missing drawings.

Answer 3

The reference for Slip Remedial Works for km 9+640 to km 10+050 was incorrect in the Bill of Quantities and has been corrected to km 9+695 to km 10+010. Please refer to Drawing No. RPLD-SRW-01.

Question 4

RSP/W6/03:SST CHAPTER 905. FILTER DRAIN, MANHOLES... item 902.04 ACCEPTANCE OF WORKS - Payment, there is record:

Payment will be made under the items below:

90503 Construction of manholes Linear *meter*

In Bill of Quantities No 900, "Unit of measure" for manhole is **[number]**. Please correct the SST.

Answer 4

Unit of measure for item No. 90503 is **number**, and the Technical Specifications have been revised accordingly.

Question 5

RSP/W6/03:SST Chapter 902 GEOTEXTILE FABRICS item 902.02 identified a lot of geotextiles together with their main technical parameters. Furthermore on SST item 902.04 ACCEPTANCE OF WORKS - Payment there is record:

No.	Item	Unit of Measure
90201	Geocomposite Type 1 (SAMI)	Square meter
90202	Geotextile Type 2 (separating and filter membrane for protection)	Square meter
90203	Geocomposite Type 2 (filter protective membrane)	Square meter
90204	Geocells (Shoulder reinforcement)	Square meter
90205	Polumat Mattress (Shoulder reinforcement)	Square meter

In the Bill of Quantities there are following types of geosynthetics:

Bill No. 300, PAVEMENT

90201	Geocomposite Type 1 Geocompozit Tip 1	Square Metre	36684
-------	---	--------------	-------

REMEDIAL WORKS Masuri contra Alunecărilor de Teren

90202.1	Geocomposite Type 2 Reinforcement of Ravine Geocompozit Tip2 Consolidarea Ravenei	Square meter	12670
90202.2	Geotextile Type 2 Embankment Reinforcement Geotextil Tip 2 ConsolidareaTerasamentului	Square meter	13915
90203	Geocomposite Type 2 placed on slopes Geocompozit Tip 2 asternut pe taluz	Square meter	6215
90501	Construction of the filter drain	Linear meter	

There is an inconsistency between the description and names of geosynthetics used in SST and used in Bill of Quantities.

Please clearly indicate which Bill of Quantities items refer to the materials listed in the SST.

Answer 5

The Technical Specification item No. 90201, description of **Geocomposite Type 1 (SAMI)** is correct. Bill of Quantities item No. 90201 has been revised accordingly

The correct description of Item No. 90202.1 is **Geotextile Type 2 Reinforcement of Ravine**. Bill of Quantities and Technical Specification Item No. **90202.1** have been revised accordingly.

The correct description of item 90202.2 is **Geotextile Type 2 Embankment Reinforcement**. Bill of Quantities and Technical Specification Item No. **90202.2** have been revised accordingly.

The correct description of item 90203 is **Geocomposite Type 2 placed on slopes** and Bill of Quantities Item No. 90203 has been revised accordingly.

The description of item 90204 is correct in the Technical Specification but is not used in the Tender Documents.

The correct description of item No. 90501 is **Construction of the filter drain** and Technical Specification 90501 has been revised accordingly.

Question 6

RSP/W6/03: SST Chapter 902 GEOTEXTILE FABRICS item.902.02 "Materials" specified i.a. **Drainage Geocomposite Type 3** required thickness **minimum 8mm**. On the drawing CDM-SRW-01 detail *Drain Construction Using Geotextile*, material *^Drainage compozit Type Polyfelt DC or MEGADRAIN or QDRAIN - 6,9mm*". Please clarify and clearly identify material parameters.

Answer 6

The correct materials parameters are provided in Technical Specifications Chapter 902 [GEOTEXTILE FABRICS].
Drawing No.CDM-SRW-01 has been revised accordingly.

Question 7

RSP/W6/03:SST Chapter 903 ACCESS ROADS item 903.04 ACCEPTANCE OF WORKS -

Payment there is a record:

Payment will be made under the items below:

	Item	Unit of Measure
90301	Provide and remove access for slip remedial works	Lump Sum

There is no such item in Bill of Quantities . There is not any drawings referring to the item. In our opinion such drawings are necessary for correct pricing of this item.

Answer 7

Bill of Quantities No. 900 [SLIP REMEDIAL WORKS] two new items No. 90301.1 and 90301.2 have been added.

Question 8

RSP/W6/03: Bill of Quantities No 100, item 10304 Remove marker posts and dispose the unit of measurement is [linear Meter]. According to SST the unit of measurement should be [Number]. Please correct the Bill of Quantities.

Answer 8

The correct unit of measurement for item No. 10304 is Number as specified in Technical Specifications and the description of unit of measurement has been revised in the Bill of Quantities.

Question 9

RSP/W6/03: Bill of Quantities No 100, item 10305 Traffic signs removal and deliver to Employer the unit of measurement is [linear Meter]. According to SST the unit of measurement should be [Number]. Please correct the Bill of Quantities.

Answer 9

The correct unit of measurement for item No. 10305 is Number as specified in Technical Specification and the description of unit of measurement has been changed in the Bill of Quantities.

Question 10

RSP/W6/03: Technical specification Chapter 703 SIDE WALKS, item 703.03 there is information that "Earth works relating to sidewalks should be in accordance with chapter 201". Please confirm that Earthworks relating to sidewalks are included in bill of quantities no. 200

Earthworks. If are not included, please give an information about quantities these earthworks for sidewalks.

Answer 10

We confirm that the volume of Earthworks for sidewalks is included in the items of Bill No. 200 [EARTHWORKS].

Question 11

RSP/W6/03: Bill of Quantities No 100 item.30210 Asphalt Concrete Pavement Milling at a depth of 16-18 cm - [Cubic Metre] 6278 - unit of measurement is [m3]. In our opinion the correct unit of measurement should be [m2], because following item of Bill of Quantities (20102A Excavate after removal...) is calculated: $6278 * 0,28 = 1758 [m^3]$. According to SST Chapter 302 unit of measurement for item.30210 also should be [m2]. Please correct the unit.

Answer 11

The correct unit of measurement for item No. 30210 in Bill No. 100 is *square meter* as specified in Technical Specifications and the Bill of Quantities has been revised accordingly. The quantity to be priced is 6278 m².

Question 12

RSP/W6/03: Bill 800 item 80205 „Removal of high pressure gas pipelines"- it's only removal or relocation? In documentation we can find the drawings called "As-built" it means it's already executed? We can't find the detail specification for these works.

Answer 12

Relocation of existing high pressure gas pipeline is required.
The correct description of item 80205 is “relocation of high pressure gas pipelines”. The description has been revised in Technical Specification and Bill of Quantities.

80205	Relocation of high pressure gas pipeline Reamenajarea gazoductului de presiune inalta	Linear meter
--------------	---	--------------

The detailed specifications for relocation of gas pipelines are provided in the drawings No.GP-00 to No. GP-08.

On drawing GP-00 the heading of the table “List of As-built drawings of the Main Package –GP” has been revised to “List of Technical Execution Drawings of the main package – GP”.

Question 13

RSP/W6/03: Bill 800 item 80206 „Removal of water supply and sewage networks"- it's removal or relocation? We can't find the detail specification for these works. The quantity from bill item 80206 is sum of all kind of water networks (sewage, storm and water supply)?

Answer 13

The correct description of item No. 80206 is “*relocation of water supply and sewage networks as shown in the Drawings*”. The description in Technical Specification and Bill of Quantities has been revised accordingly.

80206	Relocation of water supply and sewage networks as shown in the Drawings Reamenajarea retelelor de canalizare si apeduct conform desenelor	Lump Sum
--------------	---	----------

The detailed specifications for “relocation of water supply and sewage networks” are provided in Drawings Nos. WS-S-01 to No. WS-S-08.

Question 14

RSP/W6/03: Bill of Quantities 500 Drainage structures, Item 50302.2 "Lined side drain or waterway Type 2 with precast concrete units or ". Please provide us with drawing depicting longitudinal profile showing dimensions and layout of anchors. Should that type of lined side drains be used for slopes $i > 3\%$ (see drawing TLSD-R-01) or for slopes $i > 5\%$ (see Technical Specification 503.05)?

Answer 14

The following changes have been made to the Technical Specification:

“Six types of lined drain are foreseen:

- **Type 1:** A lining of standard size for slopes $i < 5\%$ in villages
- **Type 2:** A lining of standard size for slopes $i = 3 - 5\%$
- **Type 3:** A lining of standard size incorporating regularly spaced anchor blocks for use on slopes $i > 5\%$.
- **Type 4:** A rectangular side drain of width 60 cm and depth 60 cm in situ concrete, and/or precast concrete.
- **Type 5:** A lining of standard size for slopes $i = 2-3\%$, with crushed stone stabilization of ditches.
- **Type 6:** A lining of standard size for slopes $i < 2\%$, with grass seeding on topsoil h-0,15m“

Please refer to revised drawing TLSD-R-01 in which the title “**Open channel Type 2; $i > 3-5\%$** ” has been changed to “**Open channel Type 2; $i = 3 - 5\%$** ”.

Anchors are not required for **Open channel Types 1 and 2.**

Question 15

RSP/W6/03: Drawing TLSD-R-02 "Typical lined side drain type 3" is not compatible with Technical Specification 503.05 Lined side drain and waterway "Type 3: An oversized lining reinforced with mesh reinforcement for major non roadside drains having a top width of 4 metres and a depth of 1 metre incorporating regularly spaced anchor blocks for use on slopes $> 5\%$ " Please clarify.

Answer 15

Please refer to answer for question No. 14 for revised description of side drains.
Please refer to drawing No. TLSD-R-02 for details of Type-3 side drains.

Question 16

RSP/W6/03: Bill of Quantities 500 Drainage structures, Item 50302.4 "Lined side drain or waterway Type 4 with precast concrete units or cast in situ". In Technical Specification 503.05 the dimensions of waterway is 0,60x0,45m, which is different than on Drawing TLSD-R-01 - 0,60x0,60m. Please indicate correct dimensions.

Answer 16

Please refer to answer for question No. 14 for revised description of side drains.
Please refer to revised drawing No. TLSD-R-01 for details of Type-4 side drains.
The description of Item No. 50302.4 has been revised accordingly in the Bill of Quantities.

Question 17

RSP/W6/03: Drainage structures. Please indicate locations and lengths of lined side drains, waterways and spillways on embankment slopes.

Answer 17

Please refer to Associated Data in the attached Annex, where Associated Data No. 12 refers to designed side drains and Associated Data No. 13 refers to spillways.

Question 18

RSP/W6/03: Drawing SCS-R-01. Please confirm that correct precast block is not B-2-20-50 but B-l-20-50 like in Bill of Quantities 500 Drainage structures, Item 50503 "Open concrete channel as per drawing (precast block B-l-20-50)".

Answer 18

The correct precast block is B-2-20-50, as per Drawing SCS-R-01. Bill of Quantities No. 500, item 50503 has been revised accordingly.

Question 19

RSP/W6/03: Bill of Quantities 500 Drainage structures, Item 50103.9 "Construction of culvert inlets and outlets in concrete to double pipe culverts 0 1000". We cannot find drawings concerning double pipe culverts 0 1000. Please provide us with missing drawings.

Answer 19

Culvert inlets and outlets in concrete to double pipe culverts Ø 1000 have been cancelled from the design and Item No. 50103.9 has been removed from Bill of Quantities.

Question 20

RSP/W6/03: Bill of Quantities 500 Drainage structures, Item 50106.7 "Box culverts 2,00m x 2,00m (span x rise)". We found only one Box culvert 2,00m x 2,00m at km 23+645, 17,28m long. In Bill of Quantities the length is 35,58m. Please change quantity accordingly or indicate more culverts to which this quantity refers.

Answer 20

The correct length of culverts is 17.28m and the Bill of Quantities item No. 50106.7 has been revised accordingly.

Question 21

RSP/W6/03: Drainage structures. Please indicate in which item should concrete stabilization of channels and slopes around the pipe and box culverts be calculated. Is it included in item 50109 "*Additional protection works at inlets and outlets*" or that stabilization should be calculated in items 50103 "*Construction of culvert inlets and outlets in concrete to pipe culvert*" and 50104 "*Construction of culvert inlets and outlets in concrete to box culverts*".

Answer 21

Concrete stabilization of channels and slopes around the pipe and box culverts is included in Bill of Quantities item No. 50109 "*Additional protection works at inlets and outlets*".

Question 22

RSP/W6/03: Bill of Quantities 600 ROAD FURNITURE and INCIDENTAL CONSTRUCTION. Please provide us with missing drawings concerning Item 50103.4 "*Construction of culvert inlets and outlets in concrete to Pipe culverts Ø 1000*" and Item 50105.3 "*Construction of new concrete pipe culverts Ø 1000*".

Answer 22

Construction of culverts inlets and outlets for Ø 1000 are shown in new drawings No. TPCC-R-01, TPCC-R-02 and PCE-R-01, PCE-R-02.

Question 23

RSP/W6/03: Bill of Quantities 600 ROAD FURNITURE and INCIDENTAL CONSTRUCTION. Please provide us with missing drawings concerning Item 50110 "*Provide and place concrete pipe culverts (600 mm Ø) at side roads*".

Answer 23

For item 50110 "*Provide and place concrete pipe culverts (600 mm Ø) at side roads*", please refer to Drawing No. EPT-R-1, New Drawing No. FYA-R-01 and the Annex - Associated Data No. 16- List of Designed Minor Intersections.

Question 24

RSP/W6/03: Drawing TLSD-R-01 "*Typical lined side drain type 1,2,4*". Which concrete class shall be used for open channels type 1,2,4 ?

Answer 24

For open channels Types 1, 2 and 4, cast in situ concrete is B20 as shown in revised drawing No. TLSD-R-01 and relevant changes have been made in the Technical Specification.

Question 25

RSP/W6/03: Bill of Quantities 400 Bridge/ Pod R16-2,1-B (km 18+778), item. 40305 *"Drive against reinforced concrete piles "*. Please provide information about length of one pile and quantity of piles in pieces.

Answer 25

Total number of piles is 96 and total length is 850 as given in Bill of Quantities.

Question 26

RSP/W6/03: There is inconsistency between drawings and Bill of Quantities concerning the type and thickness of the bituminous pavement and crushed aggregate base for Sidewalks. Please confirm what shall be the type and thickness of the bituminous pavement and base on Sidewalks

Answer 26

The correct type and thickness for bituminous pavement is **Wearing course A/C type V M1**, 30mm, and new item No. 30504.1 has been added in Technical Specification. In Bill of Quantities No. 600 "Sidewalks" item No. 30504A has been changed to item No. 30504.1 and the description has been changed as shown below:

30504.1	Wearing course of asphalt concrete Type V M1 Thickness 30 mm	Square meter
---------	--	--------------

The correct type and thickness of the sidewalk crushed base is **"Base course of crushed limestone M 300"**, 100 mm, and the description of item No. 30302.1 in Bill of Quantities has been changed as follows:

30302.1	Crushed limestone base course M300 H-100mm	Square meter
---------	---	--------------

Question 27

RSP/W6/04: Bill of Quantities No 100, item 10304 *Remove marker posts and dispose* the unit of measurement is [linear Meter]. According to SST unit of measurement should be [Number]. Please correct the Bill of Quantities.

Answer 27

The correct unit of measurement for item No. 10304 is Number as specified in Technical Specifications and the description of unit of measurement has been revised in the Bill of Quantities.

Question 28

RSP/W6/04: Bill of Quantities No 100, item. 10305 *Traffic signs removal and deliver to Employer* the unit of measurement is [linear Meter]. According to SST unit of measurement should be [Number]. Please correct the Bill of Quantities.

Answer 28

The correct unit of measurement for item No. 10305 is Number as specified in Technical Specification and the description of unit of measurement has been changed in the Bill of Quantities.

Question 29

RSP/W6/04: Technical specification Chapter 703 SIDE WALKS, item 703.03 there is information that *"Earth works relating to sidewalks should be in accordance with chapter 20Γ"*. Please confirm that Earthworks relating to sidewalks are included in bill of quantities no. 200 Earthworks. If are not included, please give a information about quantities these earthworks for sidewalks.

Answer 29

We confirm that the volume of Earthworks for sidewalks is included in the items of Bill No. 200 [EARTHWORKS].

Question 30

RSP/W6/04: Bill of Quantities 500 Drainage structures, Item 50302.2 *"Lined side drain or waterway Type 2 with precast concrete units or cast in situ"*. Please provide us with drawing depicting longitudinal profile showing dimensions and layout of anchors. Should that type of lined side drains be used for slopes $i > 3\%$ (see drawing TLSD-R-01) or for slopes $i > 5\%$ (see Technical Specification 503.05)?

Answer 30

Please refer to the Answer for Question 14.

Question 31

RSP/W6/04: Drawing TLSD-R-02 "Typical lined side drain type 3" is not compatible with Technical Specification 503.05 Lined side drain and waterway *"Type 3: An oversized lining reinforced with mesh reinforcement for major non roadside drains having a top width of 4 metres and a depth of 1 metre incorporating regularly spaced anchor blocks for use on slopes 1 50 "*. Please clarify.

Answer 31

Please refer to the Answer for Questions 14 and 15.

Question 32

RSP/W6/04: Bill of Quantities 500 Drainage structures, Item 50302.4 *"Lined side drain or waterway Type 4 with precast concrete units or cast in situ"*. In Technical Specification 503.05 the dimensions of waterway is 0,60x0,45m, which is different than on Drawing TLSD-R-01 - 0,60x0,60m. Please indicate correct dimensions.

Answer 32

Please refer to answer for question No. 14 for revised description of side drains.
Please refer to revised drawing No. TLSD-R-01 for details of Type-4 side drains.
The description of Item No. 50302.4 has been revised accordingly in the Bill of Quantities.

Question 33

RSP/W6/04: Please indicate locations and lengths of lined side drains, waterways and spillways on embankment slopes.

Answer 33

Please refer to Associated Data in the attached Annex, where Associated Data No. 12 refers to designed side drains and Associated Data No. 13 refers to spillways.

Question 34

RSP/W6/04: Drawing SCS-R-01. Please confirm that correct precast block is not B-2-20-50 but B-l-20-50 like in Bill of Quantities 500 Drainage structures, Item 50503 *"Open concrete channel as per drawing (precast block B-l-20-50)"*.

Answer 34

The correct precast block is B-2-20-50, as per Drawing SCS-R-01. Bill of Quantities No. 500, item 50503 has been revised accordingly.

Question 35

RSP/W6/04: Please provide us with missing drawings concerning pipe culverts and box culverts, i.a

- Pipe culverts elongation typical 01.0m (drawings PCE-R-01m, PCE-R-02);
- Construction box culvert 1.0x1.0 (drawings CBG-R-01, CBG-R-02, CBG-R-03, CBG-R-04).

Answer 35

The missing Drawings PCE-R-01, PCE-R-02 and CBG-R-01, CBG-R-02, CBG-R-03, CBG-R-04 have been provided in the revised set of Tender Drawings.

Question 36

RSP/W6/04: Bill of Quantities 500 Drainage structures. Item 50103.6 *"Construction of culvert inlets and outlets in concrete to pipe culvert Ø 1250"*. Quantity is 5 number, but on drawings in summary there are 4 culverts Ø 1250 (7 inlets and outlets, 1 drop inlet). Please confirm the quantity or change the Bill of Quantities accordingly.

Answer 36

We confirm that the number of pipe culverts Ø 1250 are 4, and number of outlet and inlet are 7 and change have been made accordingly in Bill of Quantities item No. 50103.6.

50103.6	to Pipe culverts Ø 1250	Number	7
---------	-------------------------	--------	---

Question 37

RSP/W6/04: Drainage structures. Please indicate in which item should concrete stabilization of channels and slopes around the pipe and box culverts be calculated. Is it included in item 50109 *"Additional protection works at inlets and outlets"* or that stabilization should be calculated in items 50103 *"Construction of culvert inlets and outlets in concrete to pipe culvert"* and 50104 *"Construction of culvert inlets and outlets in concrete to box culverts"*.

Answer 37

Concrete stabilization of channels and slopes around the pipe and box culverts is included in Bill of Quantities item No. 50109 *"Additional protection works at inlets and outlets"*.

Question 38

RSP/W6/04: Bill of Quantities 600 ROAD FURNITURE and INCIDENTAL CONSTRUCTION. Please provide us with missing drawings concerning Item 50103.4 *"Construction of culvert inlets and outlets in concrete to Pipe culverts 0 1000"* and Item 50105.3 *"Construction of new concrete pipe culverts 0 1000"*.

Answer 38

Construction of culverts inlets and outlets for Ø 1000 are shown in new drawings No. TPCC-R-01, TPCC-R-02 and PCE-R-01, PCE-R-02 and Bill Item 50103.4 has been revised accordingly.

Question 39

RSP/W6/04: Bill of Quantities 600 ROAD FURNITURE and INCIDENTAL CONSTRUCTION. Please provide us with missing drawings concerning Item 50110 *"Provide and place concrete pipe culverts (600 mm diameters) at side roads"*.

Answer 39

For item 50110 *"Provide and place concrete pipe culverts (600 mm Ø) at side roads"*, please refer to Drawing No. EPT-R-1, New Drawing No. FYA-R-01 and the Annex - Associated Data No. 16- List of Designed Minor Intersections.

Question 40

RSP/W6/04: Drawing TLSD-R-01 *"Typical lined side drain type 1,2,4"*. Which concrete class shall be used for open channels type 1,2,4 ?

Answer 40

For open channels Types 1, 2 and 4, cast in situ concrete is B20 as shown in revised drawing No. TLSD-R-01 and relevant changes have been made in the Technical Specification.

Question 41

RSP/W6/04: Bill of Quantities 400 Bridge/Pod R16-4-B (km 30+550), item. 40305 *"Drive against reinforced concrete piles"*. Please provide information about length of one pile and quantity of piles in pieces.

Answer 41

Total number of piles is 12 and total length is 192 as given in Bill of Quantities.

Question 42

RSP/W6/04: Bill of Quantities 400 Bridge/ Pod R16-5-B (km 31+196) ,item. 40305 "*Drive against reinforced concrete piles*". Please provide information about length of one pile and quantity of piles in pieces.

Answer 42

Total number of piles is 34 and total length is 390 as given in Bill of Quantities.

Question 43

RSP/W6/04: Bill of Quantities 400 Bridge/ Pod R16-6-B (km 40+890), item. 40305 "*Drive against reinforced concrete piles*". Please provide information about length of one pile and quantity of piles in pieces.

Answer 43

Total number of piles is 56 and total length is 616 as given in Bill of Quantities.

Question 44

RSP/W6/04: Bill of Quantities 400 Bridge/ Pod R16-7-B (km 42+499), item. 40305 "*Drive against reinforced concrete piles*". Please provide information about length of one pile and quantity of piles in pieces.

Answer 44

Total number of piles is 30 and total length is 240 as given in Bill of Quantities.

Question 45

RSP/W6/03 and RSP/W6/04: Document PART 2
REQUIREMENTS ENVIRONMENTAL MANAGEMENT PLAN
Item 4.1 based on information from Geotechnical Report (Appendix VI). The documentation received from the Employer do not include such attachment. Please provide missing documents.

Answer 45

The Geotechnical Report is not part of the Tender Documents; a copy is available for download at the following link:
http://files.asd.md/ProcurementW6/WorksW6/R16_Geotechnical_Report.pdf

Question 46

RSP/W6/03 and RSP/W6/04: We can't find documentation for "Power Lines" and "Communication lines". Please provide. If it's need to be priced.

Answer 46

The details regarding the Power Lines has been provided in Associated Data No. 25 and for Communication Lines in Associated Data No. 26.

Question 47

We kindly ask you to clarify/specify:

If the hide items inserted in the bill of quantities must be evaluated or not (ex: R16/Lot1, Bill 100 row No. 30, Item 10202=Removal of top Soil-Stripping, Loaded, transported and stockpiled for reuse/decaparea stratului vegetal

Answer 47

For R16 Lot1, Bill 100 Item 10202 had been omitted in error and has been included as follows in the updated Bill of Quantities.

10202	Removal of topsoil - stripping, loaded, transported and stockpiled for re-use	Cubic Metre	16410
-------	--	-------------	-------

All other hidden rows have been deleted from the updated Bill of Quantities, see answer 18 from **Part 2 – R16 : Requests for Clarification – Procurement.**

Question 48

Please provide the following for us to prepare our tender file.

1. What clarifications are made to the tender documents, when those will be announced?
2. Some of Bill of Quantities items has “n/a” at its Quantity column.
Please clarify the following:
“n/a” refers to “not available” so that a unit price needs to be presented for the BoQ item for an unknown/unavailable quantity
OR
“n/a” refers to “not applicable” so that no unit price will be presented because the BoQ item is null and not applicable?
3. What are the modifications? When they will be released to use of prospective tenderers?

Answer 48

1. The clarifications to the tender Documents are enumerated in this Clarification Document, the Amendment No.3 and the updated Tender Documents.
2. All “n/a” items have been deleted from the updated Bills of Quantities.
3. The modifications to the tender Documents are enumerated in this Clarification Document, the Amendment No.3 and the updated Tender Documents.

Part 2 – R16 : Requests for Clarification - Procurement

Question 49

“As it is common practice since a couple of years, to build in Europe and Eastern Europe comparable road- and highway projects, beside in asphalt pavement, also in cement concrete pavement, we kindly ask you to confirm that also road-and highway projects executed during the last five years in cement concrete pavement can also be taken as reference projects for the required eligibility criteria Part 1-Section III, Sub-Factor 2.4.2 (Forms EXP-2(a) Specific Construction Experience and EXP-2(b) Specific Construction Experience in Key Activities)”.

Answer 49:

Only projects executed in asphalt concrete will be considered as reference for the required eligibility criteria Part 1 – Section III.

Question 50

According to the provisions of *Section III: Evaluation and Qualification Criteria, Factor 2.3 - Financial Situation, position 2.3.2*, it show that The Average Annual Turnover, for an association, The Leader Partner must meet 70% of the requirement and Each partner must meet 30%. Question 1a. In the above presented situation, please, answer to us if in the Association could be more than one Associated Partner covering together the required 30% of the Average Turnover Similary question for the item Financial Resources Sub-Factor 2.3.3.

Answer 50:

In order to qualify, each Associated Partner must meet the minimum required 30% of the Qualification Criteria.

Question 51

According to the provisions of Section III: Evaluation and Qualification Criteria, Factor 2.4- Experience, requirement 2.4.2 b) (Key activities) is stipulated that the Leader must meet 70% of the requirement and the others Partners must meet 30%. Question: According to the above presented items please clarify to us if in the Association could be more than one Partner as Associated Partner. Regarding to the requirements stipulated in Specific Experience position 2.4.2 (one contract for key activity), please confirm us if you will accept, in case that more Partners can act as Associated Partner, the requirement could be fulfilled by cumulating of the Specific Experience of all the Partners without the obligation of participation in a presented percentage

Answer 51:

The Association could be more than one Partner where each Partner covers the minimum required 30% of the Qualification Criteria will be considered and accepted for the further evaluation.

Question 52

In the situation the Leader cover 100% of the Specific Experience claim by the item 2.4.2 the requirement is appreciate fulfill, even the Associated Partner do not fulfill any requirement regarding the Specific Experience(including key activities) requested to this position?

Answer 52:

The Associated Partners must fulfil the minimum 30% of the Average Turnover.

Question 53

In the case a Tenderer apply for both lots, please clarify the way to fulfill this requirement without the request to proof the Similary Experience for:
- annual average of manufacturing and laying of the asphalt concrete

- the manufacturing and laying of the asphalt concrete proof in a single contract.

Answer 53:

The Tenderer is required to present in its offer separate experience when applying for both lots. If the Tenderer is applying for both lots, but aims to win only one Contract, the Tenderer can provide same experience.

Question 54

Please advise us if is set a Maximum percentage for the construction works committed to the Subcontractors.

Answer 54:

There is no specific limit, however the Subcontractor is not allowed to subcontract 100%.

Question 55

Please advise us if is set a Minimum percentage for the construction works committed to the Subcontractors.

Answer 55:

There is no specific limit, however the Subcontractor is not allowed to subcontract 100%.

Question 56

According to item 10 Section I - Instructions to Tenderers, please confirm us that all documents presented in the Tender, in a different language than English, have to be accompanied only by a simple translation in English. Please, confirm us, that the English notary authorized translation is not mandatory for all documents, except the written confirmation of authorization to sign the Tender-Power of Attorney, duly authorized by a Notary Public.

Answer 56:

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 57

Regarding the Similarity Experience requirements item “d” instead of “ Cold asphalt recycling in a single Contract...” the Employer is acceptable Similarity Experience for “ Asphalt Recycling in a single Contract...”?

Answer 57:

The requirement is confirmed to be “Cold asphalt recycling in a single Contract...”.

Question 58

RSP/W6/03 and RSP/W6/04:Acc. to Part 1 - Section III: Evaluation and Qualification Criteria , Table 2.4 Experience “*The Tenderer shall demonstrate that it has successful experience as prime contractor in the execution of at least 2 (two) projects, of a nature and complexity comparable to the proposed contract, completed successfully **within the last 5 (five) years**; each of the projects should have a value of:*

- For Lot 1 : at least EUR 15 million equivalent, excluding VAT,
- For Lot 2 : at least EUR 15 million equivalent, excluding VAT,
- For Lot 1 & Lot2 : at least EUR 30 million equivalent, excluding VAT”

Later there is requirement concerning specific experience in the production and laying of asphalt concrete , cold in-place recycling of asphalt pavement and bridge structural rehabilitation works: “*executed within the last three (3) years*”.

Please confirm that the Tenderer can demonstrate the specific experience in the production and laying of asphalt concrete, cold in-place recycling of asphalt pavement and bridge structural rehabilitation works on a single contract “*executed within the last 5 (five) years*, consistent and coherent with the time frame required for the 2 (two) executed projects of nature and complexity comparable to the present contracts.

Answer 58:

The Tenderer shall demonstrate the specific experience in the production and laying of asphalt concrete, cold recycling of asphalt pavement and bridge structural rehabilitation works under contracts in the role of contractor or management contractor for the last **3 [three]** years prior to the tender submission deadline.

Question 59

RSP/W6/03 and RSP/W6/04: Acc to Part 1 - Section III: Evaluation and Qualification Criteria , Table 2.4 Experience the Tenderer shall demonstrate specific experience in has successful experience in Cold in-place recycling of asphalt pavement on a single contract:

- For Lot 1 : 15 000 **m3**/year
- For Lot 2 : 17 000 **m3**/year
- For Lot 1 & Lot2: 32 000 **tonnes**/year

Please confirm if the units are correct.

Answer 59:

The measure unit For both Lot 1 & Lot2 is **m3**/year.

Question 60

RSP/W6/03 and RSP/W6/04: Please confirm that the experience in construction of new bridge structures will be accepted to demonstrate specific experience in Bridge structural rehabilitation works.

Answer 60:

We do confirm that the experience in construction of new bridge structures will be accepted to demonstrate specific experience in Bridge structural rehabilitation works.

Question 61

RSP/W6/03 and RSP/W6/04: Please confirm that experience in construction of the Sub-base and Base of cement stabilized materials will be accepted to demonstrate specific experience in Cold in-place recycling of asphalt pavement, due to the fact that, the equipment used to execute both type of work is the same cold in-place recycling machine.

Answer 61:

The experience in construction of the Sub-base and Base of cement stabilized materials will not be accepted to demonstrate specific experience in Cold recycling of asphalt pavement.

Question 62

Can we show the same similar experience (similar contracts) in “Rehabilitation of R16 Balti-Falesti_Sculeni Road” Lot 1 and Lot 2 and “Rehabilitation of R6 M1 – Ialoveni Road”?

Answer 62:

Yes. The Tenderer can provide same Similar Experience for different tenders.

Question 63

According to the requirements of the Tender Documents the Tenderer shall demonstrate Substantially Completed projects as a specific experience. Please write the percentage of completion

Answer 63:

Substantially Completed projects requires that the Taking Over Certificate has been issued.

Question 64

We kindly ask you to clarify/specify:

Exactly the documents/forms which must be filled/prepared by the Subcontractor(s) in order to be Accordance with the Tender Documentation requirements, taking into account that only the “ELI – 2” form is clearly mentioned in this respect.

Answer 64:

In Form “ELI – 2” the Tenderer shall include all requested information for each Party constituting the Tenderer.

Information on Subcontractors who do not constitute the Tenderer shall be provided as required in **Part 1 - Section IV: Tender Forms**, Schedule of Supplementary Information, v) **List of Proposed Subcontractors**

Question 65

We are kindly asking to the Employer the following clarification:

In the Tender documents, Part 1 – Tendering Procedure, Section III – Evaluation and Qualification Criteria, table 2.4, item 2.4.1 Experience page 26, instead of the required experience in Cold in place recycling asphalt concrete will be accepted by the Employer, the Tenderer experience in Hot in place recycling of asphalt concrete pavement on a single contract executed within the last three (3) years at a rate not less than: 15000 m³/year?

Answer 65:

The experience in “Hot recycling of asphalt concrete pavement” will not be accepted to demonstrate specific experience in “Cold recycling of asphalt pavement”.

Question 66

In the BoQ excel format, there are some hidden rows which involve quantity. Could you please clarify if they are included for the total sum or not?

Answer 66:

All hidden rows have been removed from the updated Bill of Quantities.

PLEASE NOTE THAT ALL TENDERERS SHOULD USE THE UPDATED BILL OF QUANTITIES IN THE TENDER SUBMISSIONS.

Part 3 – R16 : Requests for Clarification – Other Miscellaneous Changes

- a) In accordance with the amended provisions of Sub-Clause 006.03 of Technical Specifications the Contractor is responsible for the Diversion of existing overhead or underground installation carrying live services (gas, water, electric power, telephone, etc.). Payment for this work is covered in Bill of Quantities No. 800 as measured items to be priced by the Tenderer.
- b) The description of the works implies that in-place cold recycling should be used to minimize material transport. However, referring to Clause 301.06, *‘the preparation of the Milling, mixture may be carried out simultaneously with the milling operation or separately, depending on the equipment and method statement as proposed by the Contractor’*, the Contractor may propose in-plant cold recycling for approval by the Engineer within his Method Statement at no extra cost.

The list of equipment the requirement for cold recycling machine has been revised to allow for the Contractor’s choice of in-place or plant asphalt recycling.

Also the specific requirement has been changed to experience of “cold recycling of asphalt pavement”.

- c) The geotextile filter membrane should comply of the requirements as set down in EN 13249. Technical Specification Chapter 014.03 the reference to “AASHTO M288” is replaced by “EN 13249”.

Technical Specification Chapter 201.16 the reference to “AASHTO M288” is replaced by “EN 13249”.

Technical Specification Chapter 303.02 the reference to “AASHTO M288” is replaced by “EN 13249”.

- d) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 101.03, Works Description, Construction Drawings, the following paragraph is added “The time period for Engineer’s review and submission to the Employer is 14 days.

And the following paragraph is added.

Road Safety Audit for Draft and Final Construction Drawings

Road Safety Audit for Draft and Final Construction Drawings shall be carried out in accordance with the requirement of EU Directive 2008/96/EC of the 19th November 2009. The Road Safety Audit may only be undertaken by Auditors meeting the requirements of Article 9 of Directive 2008/96/EC.

And the following Items are added to the Technical Specification

10102	Provision for the implementation of traffic calming measures which may be identified during the safety audit for the preparation of the construction drawings	Provisional Sum
10103	Road Safety Audit for Draft and Final Construction Drawings	Lump-sum

- e) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201.17.04. Protection Layers Construction, the text “Shaped the existing slope and the road embankment slope as shown in the Drawings GDxx.” is deleted.
- f) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 201.17.03, General requirements, the text “as shown in the Geotechnical drawing GDXX” is deleted.
- g) Tender Documents, Part 2 – Requirements, Technical Specification, Chapter 302.01

302.01 INTRODUCTION

This work consists of the milling of the existing asphalt pavement. The milled asphalt shall only be used for the works on instruction from the Engineer.

shall be substituted by:

This work consists of the milling of the existing asphalt pavement where other works than cold recycling are foreseen. The milled asphalt shall only be used for the works on instruction from the Engineer.

- h) Tender Documents, Part 2 – Requirements, Tendering Procedures, Chapter 302.03
[MILLING]

302.03 MILLING

The existing bituminous pavement is made from different asphalt and gravel shall be milled and processed by at least sieving (if necessary) to meet the requirements for re-use in the regulating layer. The existing bituminous pavement material does not conform to any given grading, but consists locally of larger gravel and finer material.

shall be substituted by:

The existing bituminous pavement is made from different asphalt and gravel shall be milled and processed by at least sieving (if necessary) to meet the requirements for re-use in the regulating layer. If the existing bituminous pavement material does not conform to any given grading, but consists locally of larger gravel and finer material, then it shall be re-used or disposed as instructed by the Engineer.

- i) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 302.04
[ACCEPTANCE], Item No. 30201 has been revised as follows:

30201	Asphalt Concrete Pavement Milling to any depth and re-use or disposal as instructed by the Engineer.	Cubic Metre
-------	--	-------------

- j) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303
[WIDENING AND RECONSTRUCTION OF THE EXISTING CARRIAGEWAY AND PROVISION OF NEW PAVEMENT]

303.04 [Construction Procedure]

Asphaltic binder and wearing courses shall be laid to the levels indicated in the drawings. Asphalt mixtures will be designed, produced and laid in accordance with the requirements of chapter 305 and SNiP 3.06.03-85.

Wherever new asphalt is laid abutting existing asphalt pavement, the edges of the old pavement

shall be carefully cut to expose clean fresh vertical joint faces which will be tack coated with bituminous material meeting the requirements of chapter 304 and in compliance with the requirements of chapter 305 immediately before the fresh adjoining asphalt is laid. Minimum compaction requirements for the Binder and Wearing course shall be 98% of Marshall Density (AASHTO T230).

Shall be substituted by:

Asphaltic binder and wearing courses shall be laid to the levels indicated in the drawings. Asphalt mixtures will be designed, produced and laid in accordance with the requirements of chapter 305.

Wherever new asphalt is laid abutting existing asphalt pavement, the edges of the old pavement shall be carefully cut to expose clean fresh vertical joint faces which will be tack coated with bituminous material meeting the requirements of chapter 304 and in compliance with the requirements of chapter 305 immediately before the fresh adjoining asphalt is laid. Minimum compaction requirements for the Binder and Wearing course shall be in accordance with chapter 305.14.

- k) The Technical Specifications Chapter 301.10: the wording “or the stiffness by Marshall” is deleted.
- l) Tender Documents, Part 2 – Requirements, Technical Specification, Chapter 301[COLD RECYCLING THE ASPHALT CONCRETE PAVEMENTS] 301.11 [ADJUSTMENTS FOR DENSITY]

Payment

The approved volumes, measured as described above, are payable according to unit rates, specified in the Contract.

The payment is performed for the following items:

No.	Item	Unit of Measure
30103	Cold recycling of the asphalt concrete pavement at a depth of 100 - 200 mm. Mixing in of new aggregates and stabilization with 3 % cement. Regulation to required transverse and longitudinal profile. Compaction. Total layer thickness 50 - 300 mm	Cubic Metre

shall be substituted by:

Payment

The approved volumes, measured as described above, are payable according to unit rates, specified in the Contract. Payment for milling of the asphalt concrete pavement on the sections where cold recycling is foreseen is included in Item No. 30103.

The payment is performed for the following items:

No.	Item	Unit of Measure
-----	------	-----------------

30103	Cold recycling of the asphalt concrete pavement at a depth of 100 - 200 mm. Milling, mixing in of new aggregates and stabilization with 3 % cement. Regulation to required transverse and longitudinal profile. Compaction. Total layer thickness 50 - 300 mm	Cubic Metre
-------	---	-------------

- m) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 303.04, Construction Procedure, the text “98% of Marshall Density (AASHTO T230)” is deleted and replaced with “as specified in Chapter 305”.
- n) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 304 [PRIME AND TACK COATS FOR SUPPORTING SURFACE], Paragraph 304.06 “APPLICATION OF PRIME AND TACK COATS”, Prime coat application range was changed from kg/m² to l/m² of 0.8 to 1.0 l/m² and Tack coat application range was changed from kg/m² to l/m² of 0.25 to .04l/m².
- o) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.08 “Asphalt Mix Design and Testing, the text “of least 98% Marshall Density” is deleted and replaced by “in accordance with chapter 305.14”, and the text “ In case of discrepancy use SM STB 1033-2008” is added to the end of the section.
- p) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.14 “Acceptance Procedures”, the reference to “SNIP 306.06-85” is corrected to “SNIP 3.06.03-85”
- q) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.14 “Compaction”, the text “98% Marshall Density” is deleted and replaced by “0.99 of SNIP 3.06.03-85”.
- r) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 305.17 [ACCEPTANCE PROCEDURES]

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. In addition to the site tests all shipments of bitumen must have a manufacturer’s test certificate indicating compliance with all the requirements of the Specification. This test certificate must be presented to and approved by the Engineer BEFORE the relevant shipment of bitumen is permitted to enter the site.

Shall be substituted by:

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/truck 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 may order tests at a greater intensity. In

addition to the site tests all shipments of bitumen must have a manufacturer's test certificate indicating compliance with all the requirements of the Specification. This test certificate must be presented to and approved by the Engineer BEFORE the relevant shipment of bitumen is permitted to enter the site.

- s) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 503.02 “Materials”, the Text “and a minimum compressive strength of 25 N/mm² at 28 days” is deleted and is replaced by “B20 concrete”.
- t) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 702.02 [MATERIALS]

The following two new paragraphs were added:

e) Anti-skid surface treatments

Anti-skid surface treatments shall consist of high-friction calcined bauxite aggregate applied to surfaces in a hot thermoplastic resin screed. Anti-skid aggregates will comply with the requirements of EN 1423.

f) Transverse Rumble Strips

Transverse rumble strips shall consist of thermoplastic markings immediately adjacent to village name plates. The rumble strips shall comply with the requirements of SM SR 1848-7, 2013 and be formed in white color.

And lettering of point e) **Test Certificates** shall be substituted by g) **Test Certificates**

And the following Items have been added to the Technical Specification:

70207	Anti – skid surface treatments	Square Metre
70208	Transverse Rumble Strip	Square Metre

- u) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 801.03 [Working Conditions]

Payment

Items No. 80101B and 80102A have been deleted and Items Nos. 80101, 80102, 80102B and 80103 have been revised as follows.

No.	Item	Unit of Measure
80101	Diversion of poles and 0.4kV overhead lines with light	Number
80102	Diversion of poles and 10kV overhead lines.	Number
80102B	Diversion of underground lines for 10 kv	Linear Metre
80103	The rearrangement of poles and aerial power lines of 110kV	Number

- v) Tender Documents, Part 2 – Requirements, Technical Specifications, Chapter 802.03 [Working Conditions]

Payment

Items Nos. 80201, 80205 and 80206 have been revised as follows:

No.	Item	Unit of Measure
80201	Diversion of overhead communication lines and poles	Number
80205	Relocation of high pressure gas pipeline	Linear Metre
80206	Rearrangement of water supply and sewage networks	Linear Metre

	as shown in the Drawings	
--	--------------------------	--

w) Updated Bill of Quantities

All hidden rows have been removed from the updated Bill of Quantities.

PLEASE NOTE THAT ALL TENDERERS SHOULD USE THE UPDATED BILL OF QUANTITIES IN THE TENDER SUBMISSIONS.