



Finance Contract:	SERBIAN INLAND WATERWAY INFRASTRUCTURE Finance Contract between the Republic of Serbia and European Investment Bank (Official Gazette of the Republic of Serbia - International Contracts No. 02/2019)
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Clarification No. 34 to TD

Volume 4, Section 2.1 BoQ General

QUESTIONS	ANSWERS
<p>Question No 1</p> <p>BoQ 4 It: 03-05</p> <p>“03-05 Procurement, transport and installation of water impermeable MB 30- B6 concrete and M150 frost resistance, in accordance with the design for the construction of reinforced concrete support beams at elevation 70.50 and 72.50 and the terminal beam at 75.25 m.a.s.l., in accordance with the design. The price includes the formation and installation of required formwork. The price included the concrete with the appropriate reinforcement. m2 2.760,46”</p> <p>In the part of the BoQ4, which refers to Sections 1 and 2, Items 01-05 and 02-05 imply the procurement and installation of</p>	<p>Answer No 1</p> <p>The geotextile is laid on the entire connection of the coarse and fine-grained material on the slop embankment facing in accordance with the Construction Permit Design. Geotextile is not placed as underlay of concrete support beams.</p>



<p>geotextile. By reviewing the project documentation, we believe that in Section 3, Item 03-05 should also be referred to geotextile. Please clarify, was there a mistake in the description of the above Item?</p>	
<p>Question No 2</p> <p>Could you please provide us with more details about the position and geometry of vibrogravel piles?</p>	<p>Answer No 2</p> <p>It is given in the Construction Permit Design - cofferdam cross section.</p> <p>The vibro-gravel piles are placed inside cofferdam area only in al-p layer; al-pm stratum that lies on it should be replaced after sheet piles are driven.</p> <p>The other location is BoQ 9.07 (44800 m) part of plateau which belongs to HBIS. There is a al-prm soil stratum covered with fill. In that zone high ore dump should lie on the concrete slab. So, only al-prm soil should be improved. Before starting construction some investigatory works should be performed to define real area and length of vibro-piles.</p> <p>Details about the position and geometry of vibro-gravel piles shall be a part of Construction design which is Contractor's obligation.</p>
<p>Question No 3</p> <p>Piles are driving in inclination of 5:1 until driving cancellation. What is alternative solution If we failed to achieve requested force?</p>	<p>Answer No 3</p> <p>Inclined piles which are built as a part of fixed anchor block are driving to specified length. Inclined piles for crane tracks should be driven until driving cancelation. Prior to pile driving, test piles should be driven until driving cancelation and tested. If requested force is not achieved more powerful device (hammer) has to be used. The Method statement shall be provided by the Contractor before works start.</p>
<p>Question No 4</p> <p>We need clarification for steel sheet pile driving under buttresses. Sheet piles type Larssen 25, steel grade S240GP.</p>	<p>Answer No 4</p> <p>Detailed explanation is provided within the Technical documentation, Book 2/1.6 of Construction Permit Design.</p>
<p>Question No 5</p> <p>Whether the steel sheet piling anti - corrosion protection is required?</p>	<p>Answer No 5</p> <p>Anti-corrosion protection is not required, only transportation protection (sheet piles shall be new).</p>



<p>Question No 6</p> <p>Can SLT be performed on test piles, because position of working piles is unfavorable for testing, so we would like to change the location?</p>	<p>Answer No 6</p> <p>There is no sufficient information to answer the question. According to the BoQ test piles shall be constructed nearby and tested. Some of constructed “working” piles should be tested too. The Method statement shall be provided by the Contractor before works start.</p>																														
<p>Question No 7</p> <p>Please, define the number of CPT and SPT tests, that is necessary to be performed after vibro compaction</p>	<p>Answer No 7</p> <p>It is Contractor’s obligation to prove compaction results according to Serbian regulations.</p>																														
<p>Question No 8</p> <p>Please check and confirm the exact unit of measure for calculating the listed positions:</p> <p style="text-align: center;">Item - 12.2 Internal building installations</p> <p style="text-align: center;">Sub-schedule: ADMINISTRATIVE BUILDING - WATER SUPPLY</p> <table border="1" data-bbox="269 1052 1390 1850"> <tr> <td data-bbox="269 1052 358 1094">04-00</td> <td data-bbox="358 1052 886 1094">REINFORCEMENT WORKS</td> <td data-bbox="886 1052 976 1094"></td> <td data-bbox="976 1052 1097 1094"></td> <td data-bbox="1097 1052 1227 1094"></td> <td data-bbox="1227 1052 1390 1094"></td> </tr> <tr> <td data-bbox="269 1094 358 1520">04-01</td> <td data-bbox="358 1094 886 1520"> Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away. <i>Calculation per kg of completed item. Ø 4-16 mm</i> </td> <td data-bbox="886 1094 976 1520">m³</td> <td data-bbox="976 1094 1097 1520">984,00</td> <td data-bbox="1097 1094 1227 1520"></td> <td data-bbox="1227 1094 1390 1520"></td> </tr> <tr> <td data-bbox="269 1520 358 1562">05-00</td> <td data-bbox="358 1520 886 1562">MASONRY</td> <td data-bbox="886 1520 976 1562"></td> <td data-bbox="976 1520 1097 1562"></td> <td data-bbox="1097 1520 1227 1562"></td> <td data-bbox="1227 1520 1390 1562"></td> </tr> <tr> <td data-bbox="269 1562 358 1730">05-01</td> <td data-bbox="358 1562 886 1730"> Installation of manhole cover <i>Calculation per m' of completed item.</i> </td> <td data-bbox="886 1562 976 1730">m'</td> <td data-bbox="976 1562 1097 1730">3,00</td> <td data-bbox="1097 1562 1227 1730"></td> <td data-bbox="1227 1562 1390 1730"></td> </tr> <tr> <td data-bbox="269 1730 358 1850">05-02</td> <td data-bbox="358 1730 886 1850"> Installation of step irons. <i>Calculation per m' of completed item.</i> </td> <td data-bbox="886 1730 976 1850">m'</td> <td data-bbox="976 1730 1097 1850">15,00</td> <td data-bbox="1097 1730 1227 1850"></td> <td data-bbox="1227 1730 1390 1850"></td> </tr> </table>		04-00	REINFORCEMENT WORKS					04-01	Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away. <i>Calculation per kg of completed item. Ø 4-16 mm</i>	m ³	984,00			05-00	MASONRY					05-01	Installation of manhole cover <i>Calculation per m' of completed item.</i>	m'	3,00			05-02	Installation of step irons. <i>Calculation per m' of completed item.</i>	m'	15,00		
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07-00	INSULATION WORKS				
07-01	Three-layer coating of walls and manhole chamber bottom with waterproof insulation material (penetrating agent). <i>Calculation per m² of completed item.</i>	m'	37,50		
Sub-schedule: BUILDING FOR SHIP CREW - WATER SUPPLY					
04-00	REINFORCEMENT WORKS				
04-01	Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away. <i>Calculation per kg of completed item.</i> Ø 4-16 mm	m ³	328,00		
05-00	MASONRY				
05-01	Installation of manhole cover <i>Calculation per m' of completed item.</i>	m'	1,00		
05-02	Installation of step irons. <i>Calculation per m' of completed item.</i>	m'	5,00		
07-00	INSULATION WORKS				
07-01	Three-layer coating of walls and manhole chamber bottom with waterproof insulation material (penetrating agent). <i>Calculation per m² of completed item.</i>	m'	12,50		



Sub-schedule: GATEWAY CONTROL - WATER SUPPLY					
No.	DESCRIPTION	UoM	QTY	UNIT PRICE (EUR)	PRICE (EUR)
04-00	REINFORCEMENT WORKS				
04-01	Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away. <i>Calculation per kg of completed item.</i> Ø 4-16 mm	m ³	328,00		
05-00	MASONRY				
05-01	Installation of manhole cover <i>Calculation per m' of completed item.</i>	m'	1,00		
05-02	Installation of step irons. <i>Calculation per m' of completed item.</i>	m'	5,00		
07-00	INSULATION WORKS				
07-01	Three-layer coating of walls and manhole chamber bottom with waterproof insulation material (penetrating agent). <i>Calculation per m² of completed item.</i>	m ²	12,50		



**Sub-schedule: RAILTRACK GATEWAY
CONTROL - WATER SUPPLY**

No.	DESCRIPTION	UoM	QTY	UNIT PRICE (EUR)	PRICE (EUR)
04-00	REINFORCEMENT WORKS				
04-01	Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away. <i>Calculation per kg of completed item.</i> Ø 4-16 mm	m ³	240,00		
05-00	MASONRY				
05-01	Installation of manhole cover <i>Calculation per m' of completed item.</i>	m'	2,00		
05-02	Installation of step irons. <i>Calculation per m' of completed item.</i>	m'	4,00		
07-00	INSULATION WORKS				
07-01	Three-layer coating of walls and manhole chamber bottom with waterproof insulation material (penetrating agent). <i>Calculation per m² of completed item.</i>	m'	18,00		



**Sub-schedule: RAILTRACK GATEWAY
 CONTROL - SEWAGE SYSTEM**

No.	DESCRIPTION	UoM	QTY	UNIT PRICE (EUR)	PRICE (EUR)
04-00	REINFORCEMENT WORKS				
04-01	Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away. <i>Calculation per kg of completed item.</i> Ø 4-16 mm	m ³	120,00		
05-00	MASONRY				
05-01	Installation of manhole cover <i>Calculation per m' of completed item.</i>	m'	1,00		
05-02	Installation of step irons. <i>Calculation per m' of completed item.</i>	m'	2,00		

Answer No 8

04-01	Procurement and mechanical cutting, straightening, bending, manual placement and joining of simple and medium complex reinforcement. The norm includes: straightening with an electric straightener, mechanical cutting and bending, removal of impurities, grease and peeling rust, manual placement and joining as per the drawing, sorting and marking as per the details and local transport: manual transport of reinforcement bars onsite 20 m away.			
	<i>Calculation per kg of completed item.</i>			
	Ø 4-16 mm			kg



Republic of Serbia
Ministry of Construction,
Transport and Infrastructure
Project Implementation Unit

05-01	Installation of manhole cover	
	Calculation per pcs of completed item.	pcs
05-02	Installation of step irons.	
	Calculation per pcs of completed item.	pcs
07-01	Three-layer coating of walls and manhole chamber bottom with waterproof insulation material (penetrating agent).	
	Calculation per m ² of completed item.	m2

Railtrack gateway control – Sewage system, in the recapitulation items, there are missing items for Concrete works and Reinforcement works. Those works are numbered in the tender, so please add them also in Recapitulation works.