

Questions and answers

No:	Question:	Answer:
1.	<p>As a company interested in providing an offer for „Construction of Water Supply and Sewerage System“ project in Knin we have a few questions related to the following items in the Bill of Quantities:</p> <p>8.- Inspection, Mapping, Cleaning 9.- Sewer Repair.</p> <p>The works are described in Volume 3, Technical Specification, Section 1, Item 4 of the Tender Dossier. However, there is limited information available on the existing sewage network and we have some questions to the Contracting Authority: Are there any plans available showing the existing sewage network to be renovated?</p>	<p>In Vol.3, Technical Specification, Section 1, Clause 4.5.1 reads: The Employer, through the water company, has available maps and various designs of the existing network, however the data have many uncertainties. The Employer shall make available to the Contractor all available information.</p> <p>The mapping of the existing sewer network is required for the mere reason that limited and uncertain information is available about the existing network. The data to be obtained by the mapping are described in detail in the same Clause 4.5.1 for pipelines, manholes and houseconnections.</p>
2.	<p>Is the existing sewage network shown on the plans provided, but not marked? If so, what is the key for the sewerage network?</p>	<p>Please, see first part of the answer on question No.1.</p>
3.	<p>Are there any information regarding the size, condition and material of the existing sewerage network available?</p>	<p>The size of pipes is in general outlined in Clause 4.5.1. In addition answer on question 1 applies.</p>
4.	<p>To price Item No. 8.- Inspection, Mapping, Cleaning and 9.- Sewer Repair in the Bills of quantities, shall the contractor make assumptions of the sewer damage and repair method?</p>	<p>The title of Vol. 4, BoQ, Table 1 – Sewerage Network Pipelines, item 8, should read as follows: “INSPECTION, MAPPING AND CLEANING”.</p> <p>Repair is subject of item 9. “SEWER REPAIR”. The Contractor shall price item 9 on the basis defined in 9.1 to 9.4.</p>

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5.	<p>We would like to know, if it is possible that one company act as subcontractor for more tenderers which are general contractors?</p>	<p>The conditions under which a subcontractor can participate in different tenders is defined in Vol 1, Instructions to tenderers, Section 1, Clause 4 which reads: "The same company may only participate as subcontractor in different tenders if that is justified by the specific nature of the market and cleared by the Contracting Authority."</p> <p>No such conditions exist and no such clearance will be given.</p>
6.	<p>In above mentioned tender you said that the employer, through the water company, has available maps and various design of the existing network.</p> <p>For the rehabilitation of existing sewage network we need as follow:</p> <ul style="list-style-type: none"> - situation - longitudinal profile - normal canal profiles - is existing sewage pipeline under pressure or not -pressure in existing sewage pipeline (if any) -materials of existing sewage pipeline - diameter of pipeline and exactly length - information about connection - CCTV sewer inspection, if exist 	<p>Please, see first part of the answer on question No.1.</p>
<p>Questions in relation to the Preparation works</p>		
7.	<p>Preparation works Is over-pumping possible at all in every location (restrictions due to traffic, permissions or other obstacles)?</p>	<p>Overpumping will be required in order to keep the sewer system operational. Please refer to Volume 3, section 1, Clause 2.24 second paragraph in which the notion re-pumping is being used. Regarding traffic arrangements reference is made to Vol. 3, Section 2, Clause 7.5, first paragraph.</p>

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Questions in relation to the CCTV & Desilting / cleaning and rehabilitation works		
8.	Age of sewer lines?	The age of pipelines varies in general from approximately 50 years to 30 years. In the northern part of Knin some sewer extensions were made later.
9.	Typical material of sewer lines?	Variable including concrete, asbestos cement and – less in use - PVC.
10.	Have the sewers been regularly maintained?	No.
11.	What's the expected amount of silt (in percent of sewer height)?	No estimate can be given.
12.	Will the disposal of silt be free of charge and what is the distance to disposal site and estimated time for one trip with a lorry?	In Vol.3, Technical Specification, Section 1, Clause 4.5.2., paragraph 6 reads: All solids or semisolids resulting from the cleaning operations shall be removed from the site and must be properly disposed of by tipping at an approved site or sites as identified by the Contractor. All materials shall be removed from the site no less often than at the end of each operation or day. In analogy to Volume 3, section 1, Clause 2.23 the disposal of silt is at the cost of the Contractor.
13.	Is there any work in difficult accessible areas for a truck (e.g. narrow roads, encroachments, underneath buildings, heavy traffic roads, highways etc.)	The Contractor shall make his own assessment whether he regards areas as "difficult accessible".
14.	Kind of silt (solidified or loosen, consistence etc.)	No information is available.
15.	Time restriction for silt disposal (operation only day time or 24 hrs, lorry traffic in night hours permitted?)	The Contractor shall identify the disposal site or sites as defined in Vol.3, Technical Specification, Section 1, Clause 4.5.2. This includes identifying the working times of these sites.
16.	Is there any pre-treatment of the silt required, such as dehydration/dewatering before delivery to dumping ground?	The Contractor shall evaluate this requirement with the owners/management of the disposal site.
17.	Traffic situation in the jobsite areas (preferred time to work; day/night)	Part of the works is to be done in roads with heavier traffic. These roads are under the management of Croatian Roads. Please refer to Volume 3, Section 2, Clause 7.5.
18.	Is the preferred working time correlating to the disposal timings?	Because the disposal site is to the choice of the Contractor this shall be assessed

WATER SUPPLY AND SEWERAGE IMPROVEMENTS AND CONSTRUCTION OF WASTE WATER TREATMENT PLANT IN THE MUNICIPALITY OF KNIN

CONSTRUCTION OF WATER SUPPLY AND SEWERAGE SYSTEM

EuropeAid/129359/D/WKS/HR

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		by the Contractor.
19.	Are water connections for refilling available at the jobsite in regular distances and are they easily accessible for lorries?	Yes, connections for re-filling are available. However, the Contractor shall consult with the local water company for the best location(s) for refilling.
20.	Would the Employer make available water for the high pressure cleaning of sewer lines free of charge?	Please refer to Volume 3, Section 1, Clause 2.20.1.
21.	Otherwise what is the cost for water refilling and method of measurement (water meter) and which permissions from authorities are required	Please, see answer on question No. 20.
22.	Any specific format, software, classification codes, reports etc. required or expected? Any information linked to GIS databank, if any, to be considered?	Please refer to Volume 3, Section 1, Clause 4.5.1 where it reads: “...Perform an systematic analysis of all gathered data in a coding system in accordance to EN 13508-1 and -2.....” The requirements for the GIS system are described in detail in Clause 6. Because some of the information from the CCTV inspection form part of the GIS the Contractor shall link information in accordance with normal industry standard.
23.	Groundwater table and its seasonal fluctuations	Reference is made to Volume 3, Section 1, Clause 1.8.3 and 1.2.
24.	Were many structural failures/collapses encountered in the past?	No data are available. Please, see answer on Question No.31.
25.	Does the pipeline suffer from heavy infiltration of ground water?	No data are available. Please, see answer on Question No.31.
26.	Are severe misalignments of pipes observed?	No data are available. Please, see answer on Question No.31.
27.	Are many settlements of pipes observed?	No data are available. Please, see answer on Question No.31.
28.	Is frequent cracking observed at the pipe’s crown?	No data are available. Please, see answer on Question No.31.
29.	Does the pipeline suffer from solidified deposits?	No data are available. Please, see answer on Question No.31.
30.	Can rooting be deemed to be a frequent damage/problem?	No data are available. Please, see answer on Question No.31.
31.	Is a CCTV record available and is it accessible?	No, so far no CCTV record is available. CCTV inspection is part of the Contractors works. See Volume 3, Section 1, Clause 4.5. The mere objective of the CCTV inspection is to assess the sewer network condition and to define the necessary repairs in order to assure a well functioning system after the works are finished.

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		Typical distance/Number between/of faecal and surface water connections are unknown and are to be derived by CCTV inspection.
Questions in relation to the contract document:		
32.	<p><u>Clause 4.3.7.1</u> Please provide information about typical manhole distances, sizes and shapes of manholes and also the depth range. Please provide typical distance / Number of faecal and surface water connections? Please explain the term "inlets" and "connections"</p>	<p>The depth of manholes is assumed at 2-4 meter. It is the task of the contractor to obtain the exact data. "Inlets" are connections for faecal sewers (most house connections). "Connections" are connections of pipe to pipe, manhole to pipe etc. Typical distance/Number between/of faecal and surface water connections are unknown and are to be derived e.g. by CCTV inspection.</p>
33.	<p><u>Clause 4.5.1</u> "The maximum repair length of sewer network which can be eligible for various repair works is 5500 m". It is assumed that this 5500 m shall only consist of lining from manhole to manhole, but no spot or short sections in between (e.g. to place one short liner over a defective pipe joint). Please confirm</p>	<p>Based on the CCTV inspection the Contractor shall prepare a proposal for repair which shall be the most economical possible. The last paragraph reads: The Contractor shall submit to the Engineer all data and the proposal for repair. The proposal shall include a method statement. The proposal shall be priced in accordance with the unit prices of the Bills of Quantities. This might include spot repairs, repair of joints, or repairs of pipeline section with different methodologies please refer to Volume 3, Section 1, Clause 4.5.1 where it reads: "Actions may include: <ul style="list-style-type: none"> ○ in situ repair of pipelines, repair/partial exchange of pipelines, repair/renewal of manholes, repair/renewal of house connections..."; </p>
34.	<p><u>Clause 4.5.1</u> Where and when can the Employer make available to the Tenderer all available information (maps and various designs of the existing network)?</p>	<p>A CD with the results of former investigations of part of the sewer network and drawings of a large part of the existing manholes can be ordered from the employer at the address as mentioned in Vol 3, Section 1, Clause 1.2.</p>
35.	<p><u>Clause 4.5.1</u></p>	<p>This cannot be confirmed. Instead reference is made to Vol 3, Section 1, Clause</p>

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	Please confirm that only the main sewer and not the house connections are to be CCTV surveyed.	4.5.1. The Clause describes the requirements for all information to be gathered. This includes the houseconnections up till the border of the property.
36.	<u>Clause 4.5.1</u> It is assumed that the data have to be fed into a GIS system which is available with the client? Please confirm.	Please refer to Vol 3, Section 1, Clause 4.5.1 where it reads: "Register all data in a geographical information system (GIS) which shall be supplied, installed and populated with data by the Contractor." See further Clause 6, where it reads: "The Contractor shall supply and install the GIS software with all collected data at the offices of the water company with the purpose of input, editing and analysis of data contained within a single GIS database. " Reference is also made to Volume 4, BoQ, Table/Schedule 5, point 1.4
37.	<u>Clause 4.5.1</u> It is assumed that the local repairs will be paid at the length of manhole to manhole, irrespective how many damages length in between were repaired.	Local repairs will be paid on the basis of the unit prices in Table/Schedule 1. The required work and length is based on the approved proposal for repair as defined in Vol3, Sec. 1, Clause 4.5.1.
38.	<u>Clause 4.7.3</u> Shall the cutting of intruding laterals only be applicable for man-entry sewers (>DN800) or also for the non-man entry sewers (DN250-DN350)? The latter would require remote controlled robots.	Intruding laterals shall be removed. The Contractor is free to choose the method.
39.	<u>Clause 4.7.3</u> Filling of adjoining voids and displaced brickwork shall be possible manually in man entry sewers, but not in non-man entry sewers. The latter would require a remote controlled epoxy repair robot. Please confirm that only voids in man-entry sewer shall be repaired.	This cannot be confirmed. Instead voids shall be repaired and displaced brickwork be removed irrespective of accessibility and size of the sewer. If the size of the sewer does not allow such voids to be repaired from the inside they shall be repaired according approved proposal of contractor including the option of repair from outside.
40.	<u>Clause 4.7.3</u> It is assumed that the rendering and grouting for local repairs is	It is confirmed that according to Vol 3, Sec 1, Clause 4.7.14 for the respective

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	only applicable as local repair in accordance to clause 4.7.14. Please confirm.	storm sewers as defined in 4.5.1, point B only local repair and no replacement of pipelines is foreseen. For all other pipelines rendering and grouting is a repair option, to be proposed by the Contractor after the CCTV inspections.
41.	In above mentioned tender is not clear which documents must subcontractor give to main contractor. Please give us precise answer.	Refer to Vol. 1, Sec, 1 Clauses 3.3, If subcontractor provides more than 10% of the works he shall provide the eligibility proof documents as in Clause 3.3. For subcontractors who provide less than 10% of the works no documents need to be provided. The tenderer shall provide information about such subcontractors as specified in the forms and questionnaires.
42.	Form 4.6.8. Accommodation for the Supervisor – In the Form is written note „NOT APPLICABLE“. Please clarify.	Volume 3, Section 1, Clause 2.15.2 reads: “An office for the Engineer and his staff is NOT to be provided by the Contractor.” Hence form 4.6.8 is “not applicable” for this contract. Background: Office for the Engineer will be provided by the contractor for the construction of Wastewater Treatment Plant.
43.	BoQ – Water Supply Network Pipelines, Items 3.21. (psc) and 3.22.(m1) have the same description. Please clarify.	Volume 4, Bills of Quantities, Schedule 3, item 3.22 must read as follows: “Procurement, supply and installation of ribbon for marking of the water supply (HDPE) pipeline. Ribbon is placed on top of sand layer up to the height of 30 cm above the water-pipe top. Calculation per m' of placed ribbon. “