



Republic of Serbia

MINISTRY OF FINANCE

Department for Contracting and Financing of EU Funded Programmes (CFCU)

Belgrade, 03/11/2016

CONTRACTING AUTHORITY'S CLARIFICATIONS No. 4

“Construction and commissioning of waste water treatment plant at TPP Kostolac B”

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No.	Question	Answer
1	GENERAL Is it possible to change piping diameters indicated in the process flow diagram to assure typical design velocity?	Yes it is possible. It is up to Tenderer to design the piping as well as other WWTP component based on Employer's requirements, as well as recognized international and national standards. The diameters of the pipe should be based on tenderer design, taking into account above mentioned requirements.
2	WWTP-U a) Regarding DAF system, we understand that lamellas into a DAF system have a big risk to clog. In wastewater with oils and grease we prefer not include lamellas. Please confirm if it possible to consider a DAF without lamellas. b) Please confirm if the sludge tank from WWTP U could be made of GRP instead of concrete and above ground.	a) No, it is not possible to consider a DAF without lamellas. b) No, GPR is not acceptable, sludge tank could be above ground as well.
3	WWTP-U Due to DAF are installed above the ground, could it be possible that sludge tanks are installed also above the ground if the elevation is allowed?	The Tenderer shall determine whether the sludge tanks shall be installed also above the ground, bearing in mind the requirements of the Tender Dossier Vol. 3.
4	WWTP-U Please confirm if the sludge tank from WWTP U could be made of GRP instead of concrete and above ground.	No, GPR is not acceptable, sludge tank could be above ground as well

No.	Question	Answer
5	WWTP-ODG&HPV Please confirm if the sludge pumps from sludge collection pit to centrifugal decanter have to be submersible or helicoidal. In Lump-sum price indicate that these pumps are submersible and in the process diagram is painted helicoidal.	Confirmed that sludge pumps shall be submersible.
6	WWTP-ODG&HPV Would be possible to change the flowmeter control up each reactor number 1 by one flowmeter previous to primary clarifier and one distribution channel after the primary clarifier to distribute to each line of mains clarifiers? Please confirm.	NO. Technical solution has to be in accordance with the Employer's requirements Chapter 9.9.5
7	Chemical Storage Please confirm that HCl storage tank could be made of PEHD instead of AISI 316	Confirmed.
8	Chemical Storage Please confirm that HCl mixer devices could be removed.	NO. The HCl mixer device could not be removed. Please refer to Employer's requirements Chapter 9.6.1.4.
9	WWTP-S In order to improve SBR performance, reduce air requirements and reduce foot print, it is possible to modify SBR dimensions?	The Tenderer can modify the SBR dimensions. However, this modifications shall not impact functionality of WWT-S unit, bearing in mind the total treating capacity defined in Vol. 3 of Tender Dossier (Chapter 8.3.4, Annex 1).
10	WWTP-S Please, confirm if clean water pumps are necessary.	Yes we confirm that the clean water pumps are necessary.
11	ELECTRICAL APPENDIX B: ELECTRICAL DESIGN REQUIREMENTS. 8.6 BEARINGS. Maintenance-free bearings are to be provided for motors up to 37 kW rating at least. All motors utilising maintenance-free bearings must be clearly and permanently indicated as such. All other bearings must be provided with a lubricator, which can be used while the machine is running. Over-lubrication must be avoided by means of a lubricant controlling device.	Location at which the motors will be installed determines system for lubricating. Tenderer should foresee this according to his own experience/proposed technical solution.

No.	Question	Answer
	Motors installed in inaccessible locations must have lubrication connections piped to accessible locations. Which lubricator systems we should consider, automatic or manual.	
12	ELECTRICAL 8.16 SPECIFIC REQUIREMENTS FOR MOTORS POWERED BY VSDS. LV VSD motors intended for operation within Zone 1 or Zone 2 hazardous areas shall be certified Ex"d" and be fitted with Ex'e" terminal boxes; the certification shall also include the VSD control-gear supplied with the moto. Is there any classified area?Please indicate if the classified area affects the new areas where it will build the new wastewater treatment plants.	Tenderer has to identify danger zones, in accordance with the applicable standards and his own experience. According to identified danger zones tenderer has to provide an adequate level of protection of electrical equipment in that zones.
13	ELECTRICAL APPENDIX D: I & C DESIGN REQUIREMENTS. 2.1 DESIGN REQUIREMENTS. Contractor will provide all required interconnections and interlocks between the existing and the new installations, as well as, all necessary modifications, adaptations or amendments to the existing electrical and control installation. Please confirm the number of existing equipment to include in our PLC.	Currently precise data regarding this issue are not available. We cannot confirm or stipulate number of existing equipment included in Tenderer's PLC since WWTP technology is not defined. After precise and exact definition of technology and process Beneficiaries will be able to define number of existing equipment that shall be included in Tenderer's PLC.