



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

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)
Title:	Reconstruction and expansion of Serbian port of Bogojevo
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Clarification No. 16 to the TD

Volume_4_BoQ

QUESTIONS	ANSWERS
Question No 1 There are 3 numbers of Electrical Transformer substation in the relevant drawings and BoQ (sheet no 38). However, there is no single line drawings for those Substations. For the proper pricing, we kindly request the necessary single line diagrams.	Answer No 1 Single line diagrams are given in the Design for construction permit (PGD).
Question No 2 Is there any brand list for electrical and mechanical materials?	Answer No 2 No. The Contractor is obliged to make a Design for execution of works (PZI) that includes all the equipment offered in their offer. The characteristics of the offered equipment must be in accordance with the tender documentation.
Question No 3 “Fabrication and mounting of standard bracket (cantilever) for three single-pole cable terminations for cable type XHP 48, in the compartment to accommodate the transformer, total length 495 mm, made of sections L35x35, along with earthing tape, clips made of non-magnetic material and couplings, fully in accordance with the Catalogue of cable accessories 20 kV of the competent power distribution company for cable XHP 48 1x120/16 mm ² 20 kV”. Could you please share drawings for this item.	Answer No 3 Drawing of this item should be provided in Design for execution of works (PZI).



Question No 4 UPS Power Rating are mentioned as 3000 VA in the Technical Specification file, but in the BoQ it is mentioned as 2000VA and duration time is not described. Please clarify.	Answer No 4 UPS has to be 3000VA with autonomy min 30 min.
Question No 5 There is a conflict about fire fighting pump set between technical specification and bill of quantities documents. A main electrical and a spare diesel pump and three jockey pump have been mentioned at the 1/3.5.4. Clause of technical specification document. However, In the bill of quantities, while spare and main pumps both have been mentioned as electrical pump, two pump desired as jockey pump. Please clarify.	Answer No 5 "The following pumps are provided in the firefighting facility and should be subject of pricing: Item 48.1.1 <ul style="list-style-type: none">cooling pumps $p = 7$ barg, $q = 120 \text{ m}^3/\text{h}$ 2 pcs. Item 48.1.2 <ul style="list-style-type: none">pumps for pressure maintenance $p = 7.5$ barg, $q = 20 \text{ m}^3/\text{h}$ 2 pcs; In this item you should include also: <ul style="list-style-type: none">extinguishing pumps (diesel + electric), $p = 7$ barg, $q = 650 \text{ m}^3/\text{h}$ 2 pcs.
Question No 6 Please specify the requirement of fire fighting system. Is Turbine Type or Split Case Type requested for the main fire fighting pumps?	Answer No 6 Detailed specifications of this item should be provided in Design for execution of works (PZI).
Question No 7 Could you please share technical specification of 48.1.5 water filter for fire fighting system?	Answer No 7 "There are two steel prochrome meshes provided: Rougher: Mech 4 4,76 mm; Finer: Mech 20 0.84 mm. There is no automatic self-flushing filter provided so there is no electrical supply.
Question No 8 Is potable water treatment sytem demanded for producing drinking water as described at 1.1. section of technical specification document? There is not any work item at the boq document for the potable water treatment system.	Answer No 8 Yes, there is demand for water treatment system. The bidder should show cost of supply and installation of the water treatment equipment in the tender BoQ, Excel sheet 31, within segment - 4 Installation, item 31.4.4.



Question No 9 Are the submersible pumps (31.4.3 item number) requested as with grinder blade?	Answer No 9 Please, ignore this item.
Question No 10 Please clarify the pump type for 31.4.4 item number pumping unit? Could you please share details of request for offer?	Answer No 10 The designed characteristics for pump unit are sufficient for bidder to make request from equipment manufacturer having in mind that the Contractor is obliged to make a Design for execution of works (PZI).
Question No 11 Are the spare pumps requested for submersible pump? If it is, is one spare pump proper to use for the project?	Answer No 11 The designed characteristics for pump unit (item 31.4.4) are sufficient for bidder to make request from equipment manufacturer having in mind that The Contractor is obliged to make a Design for execution of works (PZI).
Question No 12 Could you please share technical details of 32.4.2 item number pipe?	Answer No 12 Technical details are given in the item 32.4.2. PVC KG three-layered pipes were specified in this item.
Question No 13 Could you please share technical specification documents for the 32.4.10 waste water treatment system for proper pricing.	Answer No 13 The designed characteristics unit are sufficient for bidder to make request from equipment manufacturer having in mind that The Contractor is obliged to make a Design for execution of works (PZI).
Question No 14 Could you please share spesific technical demand for flushing works and disinfection works for each system (waste water system, fire fighting system, potable water sytem.)?	Answer No 14 Technical requirements for flushing works shall be specified in Design for execution of works (PZI).
Question No 15 Could you please share electrical heating capacity for both 36.4.8 and 36.4.9 electrical water heaters?	Answer No 15 Detailed technical specification should be provided in Design for execution of works (PZI) with equipment supplier.



Question No 16 44.1.22 / 9 condensed water drainage pipe work item specified as copper pipe, however 44.1.22 / 10 fittings materials are described as PVC pipe at the bill of quantities document. We kindly ask for your clarification.	Answer No 16 There has been made technical error. In Item 44.1.22/10 there should have been: "Delivery and installation of PVC condensate network for indoor VRV units, and its complete connection on the condensate riser, with following dimensions".
Question No 17 Is the equivalent brand acceptable for 44.2.1 and 44.2.2 fan work items?	Answer No 17 It is acceptable until the technical characteristics correspond to those given in the BoQ.
Question No 18 Is the specific zinc coating density demanding for the galvanized sheet metal air ducts? Could you please share technical specification for air ducts?	Answer No 18 Coating density should be 275/m ² .
Question No 19 Is the equivalent brand acceptable for 45.1.1 radiator work item?	Answer No 19 It is acceptable until the technical characteristics correspond to those given in the BoQ.
Question No 20 45.1.5 work item has been described as "radiator fans" at the description of item column. However, it is understood that, work item is radiator valve that used for regulate water flow. Could you please confirm that information?	Answer No 20 There has been made technical error. In Item 45.1.5 there should have been: "Delivery and installation of radiator valves with the possibility of closing and pre-regulation, in accordance with the standard JUS M.C5.524 for flow regulation."