

Clarification No.3 on Bid Queries
Electricity Transmission Network Improvement Project
Procurement of Plant Design, Supply and Installation of Rehabilitation of Yerevan TPC 220/110/35 kV substation
(ICB No. ETNIP_YTPC_ICB_1/2015)

05 November, 2015

No.	Queries by Bidder	Clarification from Employer
1.	1. Autotransformer 200 MVA; please specify: a) the mode of voltage transforming; constant flux type or variable magnetic flux type? b) the impedance value in all the terminals. Please, specify the tolerance. c) If the tertiary winding is needed or not. In affirmative case, provide the specifications. d) if the total number of bushing is 11 according to the technical data. e) The connections type defined is YNyn0, please clarify because an autotransformer is requested.	a) It shall comply with current international standards. b) It shall comply with current international standards c) Please refer to p. 293 Item 7. of Bidding documents d) It shall be defined by constructive requirements of manufacturer e) Please refer to p. 293 Item 6. of Bidding documents
2.	2. Current Transformers 220 and 110 kV; please clarify: a) The transformer relation b) The secondary current c) Powers and classes for the secondary	a), b) and c) shall comply with current international norms and standards
3.	3. Transformers 27,5 MVA 110/35/6 kV; We understand that the maximum powers for each winding are: 27.5 MVA for 110 kV 20 MVA for 35 kV 11 MVA for 6 kV a) Regarding the load loss is defined that “between HV and MV at the rated power of 27.5 MVA”. This condition doesn’t match the load losses specified before. In the combination 110/35 kV the maximum permissible power is 20 MVA. Please, clarify if your specification is correct. b) The same for the short circuit impedance requested. Is not	Please refer to Clarification No. 2 on Bid Queries “Requests for Clarifications for Pre-bid Meeting”, item 6. a) Clarification: our specification is correct. b) WE are not familiar with your calculations. Please follow the manufacturer’s standards.

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	<p>mentioned what voltage ratio must guarantee the 10% (110/35 kv or 110/6 kv or 35/6 kv?).</p> <p>The value of 10% cannot be ensured with 27,5 MVA for the situation described in the beginning.</p>	
4.	<p>According tender spec the Contractor have to include in their scope the dismantling works fro 220 kV AIS. In the tender spec price Lists we haven't found the appropriate line for it. Please advise under which Line in the Price List we have to include the costs for those activities.</p>	<p>This scope is included by Consultant into enlarged line of civil works.</p>
5.	<p>According tender spec the Contractor have to include in their scope the delivery and installation of new foundations for the new Equipment of 110 and 220 kV AIS. In the tender spec price Lists we haven't found the appropriate line for it. Please advise under which Line in the Price List we have to include the costs for those deliveries and installation.</p>	<p>This scope is included by Consultant into enlarged line of civil works.</p>
6.	<p>"Armenia YTPC Substation_final_corrected_upd.pdf" page81/691 Price list item 1.3.6</p> <p>Please advise what kind of works in detail are included the Price List line finishing works.</p>	<p>The question is not correct. Please refer to norms and standards for civil works.</p>
7.	<p>Price list items 1.1.3.2, 1.1.3.3; Techn. Schedules page 215-233, 110 kV disconnectors</p> <p>A. There are contradictions between price list - three pole disconnectors mentioned and technical schedules - one-, three-pole and combined disconnectors indicated.</p> <p>Please tell us the number of every type mentioned in the technical schedules - see also clarification B below.</p> <p>B. Operating device for certain 110 kV disconnectors "single pole" requested.</p> <p>Could we offer instead of "single pole" "three pole" devices - means one drive for all three poles?</p> <p>In substations Vanadzor-1 and Allaverdi-2 three pole devices are installed.</p>	<p>A. Please refer to Clarification No. 2 on Bid Queries, Item 30.</p> <p>B. Please comply with current international standards.</p>

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	Devices will be cheaper and cabling also.	
8.	<p>Price list items 1.1.1.3, 1.1.1.4; Techn. Schedules page 264-280, 220 kV disconnectors</p> <p>There are contradictions between price list - three pole disconnectors mentioned and technical schedules - one-, three-pole and combined disconnectors indicated.</p> <p>Please tell us the number of every type mentioned in the technical schedule.</p>	<p>We can not find any contradiction. Please refer to current international standards.</p>