



**ATTIKO METPO A.E.**

**TITLE OF THE TENDER: "PROCUREMENT AND INSTALLATION OF  
THE BUILDING AUTOMATION AND  
CONTROL SYSTEM (BACS) OF PIRAEUS  
EXTENSION PHASE B' "**

**RFP -384/20, A.Σ. 94301**

**CLARIFICATIONS  
DOCUMENT**

**CLARIFICATIONS DOCUMENT**

---

This Clarifications Document is issued in line with the provisions of paragraph 9.2 of the Invitation to Tender and includes responses to the questions submitted.

The content of this Clarifications Document constitutes an integral part of the Invitation to Tender.

**A. RESPONSES TO QUESTIONS**

**Question 1**

In paragraph 13.3 of the Invitation to Tender document, reference is made to the term BACS. Kindly confirm that, by the term BACS system in the framework of the subject tender, you mean the system described in paragraph 2 of the TECHNICAL DESCRIPTION document and that the economic operator must possess experience in the design, supply, manufacturing and commissioning of the tunnel ventilation control system and in the response and smoke exhaust scenarios in case of fire breaking out in stations and tunnels.

**Response 1**

It is confirmed that the BACS system is the one described in article 2 of the Technical Description document. As regards the requirement for “similar experience”, applicable is article 13.3 of the Invitation; it is also clarified that the response and smoke exhaust scenarios in case of fire breaking out in stations and tunnels that you invoke constitute the main part of the tunnel ventilation system, which is controlled by BACS

**Question 2**

Kindly confirm that the experience in the project of the supply of equipment for the modification of the Building Automation and Control Systems (BACS) in the Athens Metro stations and their connection to the AFCS – OASA system can be considered as similar experience, even if it does not include the design, supply, manufacturing and commissioning of the tunnel ventilation control system and the response and smoke exhaust scenarios in case of fire breaking out in stations and tunnels.

**Response 2**

The above is not confirmed; the supply project you refer to cannot be considered as similar experience, because it does not cover the requirement of article 13.3 of the Invitation.

**Question 3**

Is it allowed to use wall built-in switchboards for the installation of PLCs?

**Response 3**

No, only floor built-in switchboards shall be used.

**CLARIFICATIONS DOCUMENT**

---

**Question 4**

As regards the following paragraph in page 24 of document RFP\_384\_20\_DESIGN\_PERFORMANCE\_MATERIALS AND WORKMANSHIP\_SPECIFICATION:

“The operation of the workstation in the stations as a client is the one that the user - station master is required to use under normal circumstances. As a client, the user - station master shall be connected to the central BACS system in the OCC and with the EBI servers at Syntagma via the WAN network. The users in the OCC shall be informed about the actions of the user – station master on the mimic environment of the EBI Workstation in the OCC, and this information shall include as a minimum the activation / deactivation of scenarios and equipment as well as the user’s login – logout activities”,

we understand that in the stations of the extension, the workstation should be an EBI client. Kindly confirm the above, so that the cost for upgrading the licence for the use of the EBI can be calculated accordingly.

**Response 4**

First of all, it is confirmed that your understanding leads to an acceptable solution. Acceptable shall also be the local installation, at station level, of a system of another supplier of a well-known firm, as concerns control systems (HMI and PLC), which should be centrally connected at the OCC level with the existing EBI system securing, thus, full functionality and reliability, especially as concerns the content of the aforesaid article of the Specifications, and ensuring adherence to the contractual requirements for a safety level, which – as a minimum – must be equivalent to safety level SIL2

**Question 5**

As regards the following paragraph in page 22 of document RFP\_384\_20\_DESIGN\_PERFORMANCE\_MATERIALS AND WORKMANSHIP\_SPECIFICATION:

“The operation of the workstation in the stations as a client is the one that the user - station master is required to use under normal circumstances. As a client, the user - station master shall be connected to the central BACS system in the OCC and with the EBI servers at Syntagma via the WAN network. The users in the OCC shall be informed about the actions of the user – station master on the mimic environment of the EBI Workstation in the OCC, and this information shall include as a minimum the activation / deactivation of scenarios and equipment as well as the user’s login – logout activities”, kindly clarify

whether, in the stations of the extension, the workstation should be an EBI client or not,

OR

whether a custom-made solution for the interconnection with the client of another manufacturer (not EBI) is acceptable or not. If it is acceptable, kindly confirm that the EBI system has that option and that the administrators of the system will assist in the completion of such a solution.

In view of the above, kindly clarify whether the offered solution for the operation of the workstation in the stations as a client should be stated in the Technical Description of the (sub-)folder entitled “BACK UP DOCUMENTATION FOR PARTICIPATION – TECHNICAL OFFER”.

**CLARIFICATIONS DOCUMENT**

---

It is essential to stress that the aforementioned clarification is particularly important for the Project costing and, by extension, for reasons of fair competition.

**Response 5**

See response 4.

It is also stressed that the interconnection of two systems is feasible on condition that their suppliers cooperate each other in order to develop the required interfaces and functions.

**Question 6**

As regards the aforementioned paragraph of article 15.3 of the document:  
RFP\_384\_20\_CONDITIONS OF CONTRACT:

“In particular, as concerns the specialized personnel to be engaged in the works for the modifications of the existing already installed items of equipment, the subject personnel must be in the position to successfully execute the works required. It is further clarified that, in line with article 26 of this document, the Contractor shall be responsible for the unobstructed completion of the contract works...”,

A. kindly confirm that - at the penalty of disqualification - the existence of specialized personnel (or of a specialized company) constitutes the Contractor’s obligation.

B. kindly confirm that the term “installed items of equipment” refers to:

1. The EBI system
2. The HC900 controllers
3. Other item that we should know.

C. kindly clarify the method of certification of the specialized personnel.

If and provided that no certification is required, we assume that the transparency of the tender and the adherence to the rules of fair competition are severely harmed, given that the cost of cooperation with a specialized company, or the existence of specialized personnel (explicit requirement based on the aforementioned paragraph) significantly increase the cost of the financial offer.

D. If no certification is required, various economic operators are given the option to participate in the tender, while there is a strong likelihood that they offer a reduced cost due to non-familiarization (ignorance) with the scope of the project; in addition, due to the given cost reduction deriving from the management of the subject sections of the contract by non specialized personnel, these economic operators are given precedence to the procedure for the selection of a Contractor in the framework of the subject contract.

It must be stressed that the percentage of the scope directly related to the installed equipment exceeds 20% of the budget. According to item 1 in table D1, the 20% of the budget corresponds to the Upgrading of the Software and Equipment of the installed EBI system and constitutes part of the overall scope that must be executed by specialized personnel.

Kindly clarify the the aforementioned is examined, dealt with, is proven and is notified on the remaining economic operators in the framework of the tender phases.

**CLARIFICATIONS DOCUMENT**

---

E. If a training certificate or an official document of cooperation with a certified company is required for the management of the aforementioned systems, during which phase of the tender should the relevant certification be submitted? If and provided that it is not required to submit the subject certificates during the phases of the tender when the other participants can take cognizance of and have the right to a preliminary appeal, the transparency of the procedure for the selection of a Contractor through the subject Invitation to Tender is severely harmed.

**Response 6**

A. According to article 15.3 of the Conditions of Contract, as concerns the works for the modifications and upgrading of the already installed system, the Contractor is required to engage specialized personnel. This personnel is required to be familiar with and experienced on this specific system installed in a similar project. It is clarified that this specialization must be demonstrated by the Contractor upon signing of the contract and prior to the commencement of works, by presenting a relevant certificate of experience in the specific system, issued either by a Project Owner, or a Contractor who had a contract for a similar project.. It is also pointed out that the responsibility for interfacing / upgrading the system, as well as for its safe and reliable operation shall always rest upon the Contractor.

B. Installed equipment means the EBI system and the HC900 controllers.

C. See item (A) of this Response.

D. See item (A) of this Response.

E. See item (A) of this Response.

**Question 7**

Kindly confirm that it is required to upgrade the central EBI system in the OCC, as well as in the Station Master Rooms (SMRs).

**Response 7**

It is confirmed.

**Question 8**

Kindly confirm that the upgrading of the central EBI system in the OCC, as well as in the Station Master Rooms (SMRs) shall be based on the most recent version of the EBI platform, i.e. version EBI R600.

**Response 8**

It is confirmed that the upgrading of the central EBI system in the OCC, as well as in the Station Master Rooms (SMRs) shall be at the most recent version of the EBI platform.

**Question 9**

Kindly provide the License Number of each EBI Server requiring upgrading. This information is necessary to cost the subject upgrading.

- As known, the list of the items required for the upgrading of various elements derives from the License Numbers; this list includes, as a minimum, the following items:

CLARIFICATIONS DOCUMENT

---

Product ID	Product Description	Product Quantity

A. Given that it is required to upgrade the central EBI system in the OCC, as well as in the Station Master Rooms (SMRs), the resulting list shall be common for all economic operators, without providing the option for divergences.

Kindly confirm that the previous sentence is applicable or, otherwise, make an indicative reference to an eventual case of divergence.

B. In the framework of the above, kindly confirm that the relevant list of the necessary Product IDs per EBI should be included in the Technical Description of the (sub)folder entitled “BACK UP DOCUMENTATION FOR PARTICIPATION – TECHNICAL OFFER”.

❖ It must be stressed that:

- i. The 20% of the budget of the Project, according to table D1, corresponds to the Upgrading of the Software and Equipment of the installed EBI system.
- ii. The evaluation of the (sub)folder entitled “BACK UP DOCUMENTATION FOR PARTICIPATION – TECHNICAL OFFER” is based on the PASS/FAIL procedure.
- iii. We did not find any requested technical item that can certify that the offers of the economic operators related to the upgrading are duly structured and, thus, properly priced.

In view of the above, we consider that it is necessary to submit the subject list, so that it is confirmed, as a minimum, that: a) all participants in the tender have access to the aforementioned list in order to properly calculate the cost of the Project, and b) all participants in the tender have realized the extent of the upgrading and offer the same scope.

**Response 9**

First of all, it is stressed that any software license related cost required for the upgrading of the central EBI system and of the existing local systems (at station level) is included in the contract scope.

As regards the License Number of each EBI server in the OCC and in stations requiring upgrading, this information shall be provided to the Contractor at the Detailed Final Designs phase that he will prepare. The Specifications sufficiently cover the description of the scope of the three new stations and the extension, in general, while, in all cases, similar functions and requirements apply to the existing stations/shafts/recesses, etc.

**Question 10**

Kindly confirm that, in order to provide the proper documentation of the technical solution, it should be stated that the upgrading of the central EBI system in the OCC, as well as in the SMRs, should be based on the most recent version of the EBI platform, i.e version EBI R600.

**Response 10**

See response 8.

## CLARIFICATIONS DOCUMENT

---

### **Question 11**

Kindly confirm that the scope of the upgrading of the central EBI system in the OCC, as well as in the SMRs, necessarily includes the purchase of the appropriate upgrading licenses, version EBI R600, from the manufacturing company or from another official software distributor.

11.1 If you do not confirm the above, kindly make an indicative reference to another eventual acceptable method.

### **Response 11**

See response 8.

### **Question 12**

Kindly find below three extracts of the tender documents for which we require combined clarifications:

#### **RFP\_384\_20\_INVITATION TO TENDER**

#### **ARTICLE 14 INVOCATION OF THIRD PARTY RESOURCES**

“The Economic Operators can invoke and make use of the technical and professional capacity of other operators, only if the other operators are to execute works or to provide services for which the specific capacities are required”.

#### **13.3 Technical and Professional Competence**

“Similar experience means that the bidders must have designed, procured, installed and commissioned at least one (1) building automation and control system (BACS) in Metro projects with both local and central control”.

#### **RFP\_384\_20\_CONDITIONS OF CONTRACT**

**23.4** The Contractor shall not be entitled – in any case whatsoever – to award to sub-contractors/suppliers contracts representing a percentage over 50% of the overall value of the contract.

- 12.1 Kindly confirm that, in case the economic operator makes use of the technical and professional competence of another party and given that the third party will execute the works or provide services for which the subject specific capacities are required, the third party should be also considered as a known Sub-contractor/Supplier during the current phase, with all that this implies.
- 12.2 Kindly confirm that, as regards the invocation of resources in relation to the similar experience for the time period 2011-2021, the following segregation can apply; in any case, the respective part should be executed in its entirety by the third party:
- I. Design of at least one Building Automation and Control System (BACS) in Metro works through local and central control.
  - II. Supply of at least one Building Automation and Control System (BACS) in Metro works through local and central control.
  - III. Installation of at least one Building Automation and Control System (BACS) in Metro works through local and central control.
  - IV. Commissioning of at least one Building Automation and Control System (BACS) in Metro works through local and central control.
- 12.3 Provided that points A and B above do apply and in combination with paragraph 23.4 of document RFP\_384\_20\_CONDITIONS OF CONTRACT, kindly confirm that the economic operators cannot invoke resources of third parties and make use of the

**CLARIFICATIONS DOCUMENT**

---

technical and professional competence of other parties for the entire Technical and Professional Competence requested.

- 12.3.1 In case of non confirmation, kindly clarify in which phase of the Tender the subject percentage is examined. Given that, in our opinion, the above overall scope of supply (I. to IV.) cannot be less than 50% of the entire value of the Contract, we believe that, for reasons of transparency of the procedure for the selection of a Contractor through the subject Invitation to Tender, the relevant documentation should be provided in a tender phase during which the other participants can be informed accordingly and have the right to a preliminary appeal.

**Response 12**

1. The invoked “third parties” are not required to have the relation of the sub-contractor with the Contractor.
2. Confirmed.
3. Based on the response in Item 1 above, it is clarified that the percentage provided for by paragraph 23.4 of the Conditions of Contract concerns only the sub-contractors and not “third parties”. Therefore, third parties can cover the entire Technical and Professional Competence requested.
4. According to article 21.4 of the Invitation, the invocation of third party resources is examined during the Tender stage and, more specifically, during the review of the awarding back up documentation.

According to article 21.5 of the Invitation, if the sub-contractor is known during the Tender stage, the interested party must present his name, while his percentage (in line with article 23 of the Conditions of Contract), his experience and other information concerning himself must be examined during the review of the back-up documentation for the award.