



ATTIKO METPO A.E.

**TITLE OF THE TENDER: “PROCUREMENT AND INSTALLATION OF
THE BUILDING AUTOMATION AND
CONTROL SYSTEM (BACS) IN THE
EXTENSION TO PIRAEUS”
RFP-307/17 A.Σ. 45715**

**CLARIFICATIONS
DOCUMENT**

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This Clarifications Document is issued in line with the provisions of paragraph 9.2 of the Invitation to Tender and includes responses to the submitted questions, as well as clarifications on the Tender documents.

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

A. RESPONSES TO QUESTIONS

Question 1

Please confirm that the requested redundancy of 15% also concerns EBI licensed data points in the OCC main servers.

Response 1

Confirmed.

Questions 2

Confirm that the EBI (server / station) in the OCC must collect and manage the activities background of users at the Station Master Rooms, as well as the background of the operation of the local control stations in the Metro extension. For example, available must be the information that the user “Station Master 1” activated the “Fire Scenario 1” at 13:30 on 11/1/2019, or made log-in in the local checking station at 13:30 on 11/1/2019. This specific information must be available to the system administrators from the EBI application in real time.

Response 2

Confirmed.

Question 3

The use of wall-mounted switchboards for the PLC installation is allowed or not?

Response 3

No, floor-mounted switchboards shall be installed with the appropriate IP, according to the specifications.

Question 4

It is the Contractor’s obligation to perform programming works for the integration of the new stations in the central EBI system at Syntagma.

Response 4

Yes.

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Question 5

As regards works in the central EBI at Syntagma, are specific certifications required or not?

- a. If yes, which are these necessary certifications?
- b. If yes, must the certification be included in the “Participation Supporting Documents – Technical Offer” sub-envelope?

Response 5

- A. Yes, it is required for the parent manufacturing company – supplier to issue a certification for the Contractor, that he is competent and licensed to implement the Project.
- B. Yes.

Question 6

As regards the works at the HC900 controllers of the adjacent AGHIA MARINA Station, is it necessary to have specific certifications?

- a. If yes, which are the necessary certifications?
- b. If yes, must the relevant certification be included in the “Participation Supporting Documents – Technical Offer” sub-envelope?

Response 6

See response to question No. 5.

Question 7

Is it allowed to use the standby points of the installed license of the central EBI system at Syntagma?

- a. If yes, how many free points are available?
- b. If no, does the upgrading – extension of the license constitute the Contractor’s obligation?

Response 7

No, it is not allowed.

Yes, the extension of the license constitutes the Contractor’s obligation.

Question 8

With regard to paragraph 13.3.1 Minimum Preconditions for Technical Competence of the Invitation to Tender, please provide further details about what is considered as similar experience.

Response 8

According to paragraph 13.3.1: “Experience similar to the experience required on the basis of this procurement means the design, supply, construction and commissioning of at least

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one building automation and control system (BACS) for local and central control in a Metro Project”.

Question 9

The “replacement of the existing five servers of the BACS system with RACKS SERVER” is mentioned In the Tender documents.

Does the required “RACKS SERVER” concern SICLIMAT or EBI?

Response 9

They concern the EBI system.

Question 10

The “addition of two screens to the existing workstations in the OCC” is mentioned in the Tender documents.

Does the requested addition of screens concern SICLIMAT system?

Response 10

No, any reference to items of equipment and additions/modifications to the existing system concerns the BACS system at the Metro extensions, i.e. the EBI at the OCC and Station Master Rooms level and the PLC HC900 at local level, as required.

Question 11

The requirement for SIL-2 in the new system is mentioned in the Tender documents.

Does the existing equipment and the architecture of the extensions and interconnections with e EBI system, into which it is required that the new Piraeus extension be incorporated, cover SIL-2 or not?

Response 11

The existing equipment and architecture of the installed system at local and central level has been certified by an independent assessor as SIL-2. Any additions/modifications and works performed on the Contractor’s equipment and software in the framework of the existing system, and, in combination, any new equipment and software required for Piraeus extension must lead to a new overall BACS system which must be certified at SIL-2 safety level.

Question 12

Is the installed software SIL-2? If not, are solutions for “upgrading” the specific software accepted?

Response 12

Yes, it is SIL-2.

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Question 13

Is the existing EBI software efficient – as far as licenses are concerned - for the signals of the new stations to be integrated therein?

Response 13

See response to question 7.

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B. CLARIFICATIONS TO THE TENDER DOCUMENTS

B1. CONDITIONS OF CONTRACT

B1.1 Article 27.4

Insurance duration: The Insurance Company's liability shall commence upon the arrival of the first item of the Building Automation and Control System equipment of the Extension to Piraeus at AM's installation areas and ends ~~upon the approval of the Final Acceptance Protocol~~ upon expiry of the warranted operation period.