



Project "EMC Serbia"  
Institute "Mihajlo Pupin"  
Volgina 15, 11060 Belgrade, Serbia

Belgrade, 23<sup>rd</sup> November, 2011

## FREQUENTLY ASKED QUESTIONS No. 1

### Procurement tender: Supply of RF Semi-Anechoic Chamber and EMC Test Equipment

Publication reference: 07SER01/13/51/01-3

No.	Question	Answer
1	In Figure 1 of the Technical Specification for Lot 1, the turntable is indicated having a diameter of 1.3 m. In Section 7, table item 1, a quiet zone of at least 1,2m is specified. Is that correct or should both figures be the same?	The turntable should have a diameter of 1.2 m. The indication on Figure 1 is not correct. Please note that requirements provided in the Technical Specification take precedence over the General Requirements when there is discrepancy between them. The Technical Specifications clearly state: "Turntable leveled with the inside chamber floor, minimum diameter 1.2 m, maximum load at least 500 kg, with controller. Controller to be supplied with computer interface (IEE-488.2 – GPIB, or other), including software drivers and/or control protocol documentation."
2	Figure 1 of the Technical Specification for Lot 1 shows that the door for the anechoic chamber opens towards the interior of the chamber. Is that the correct arrangement? Common implementation of the chamber door is to open towards the exterior.	Orientation of the door is not correct on the Figure 1 drawing. It should be oriented to open outwards. Please note that all construction details of the chamber shall be agreed between tenderer and Contracting Authority after signing of the contract.
3	There are no Connection Points specified inside the anechoic chamber for Lot 1. These "boxes" would be installed into the chamber floor for connection of power cords, fiber optic cables, signal cables and RF cables. At least two Connection Points are suggested, one close to the 3m position of the antenna, the other one next to the turntable. The center of the turntable can also be equipped with power sockets, thus also be considered as a round Connection Point (non-turning). The Connection Points will feature the same total quantity of connectors as specified for penetration panels. Please clarify.	There should be two connection points: at the antenna mast and at the centre of turntable. Please note that Technical Specifications define "Three-phase filtered mains, 32 A per phase. Filtered mains available to the DUT placed on the turntable, via sockets at the centre of the turntable: 3-phase and 1-phase". Connection point at the antenna mast shall provide 16 A, 1-phase filtered power supply. The Connection points should feature the same total quantity of connectors as specified for the penetration panels.
4	Do you intend to connect the ventilation openings (honeycomb vents) for the semianechoic chamber for Lot1 to an air-conditioning system or shall we provide fans with speed control?	Ventilation openings will not be connected to an air-conditioning system. Our Technical Specifications don't require fans either, i.e. we plan to ventilate the chamber by natural air circulation. Provision of fans will be welcomed, but please be aware they are not formally required.
5	Where will the equipment be installed?	The equipment will be installed in the new EMC laboratory building, which will be constructed at the Institute "Mihajlo Pupin" grounds. The building construction shall start in March 2012. Preliminary building layout diagram is given in Technical Specification for Lot 1. The height of the ceiling of the building is planned to be at least 7.5 meters.

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6	In the Technical specification for Lot 2, on page 2, under General Requirements chapter, there is a provision to supply "Manufacturer's certificate" where there is no explicit requirement to supply "ISO 17025 traceable certification". However, in the Technical Specifications table, where "ISO 17025 traceable certification" is not explicitly stated, the requirement is to supply "accredited calibration" certificate. Can you explain this difference in requirements and explain which criterion will be applied when evaluating offers?	"Accredited calibration" requirement in the Technical Specification table will be interpreted by the evaluation committee as the requirement to have either "accredited calibration certificate" issued by accredited calibration laboratory or "certificate of traceable calibration" which may be issued by non-accredited manufacturer's laboratory. In the latter case a proof of traceability to national or international standard should be supplied. Please note that where "ISO 17025 traceable certification" is explicitly required, it must be offered exactly as stated.
7	Can you please provide more details what should be specified under Item 2.3 in the Technical Specifications table for Lot 2?	Under Item 2.3 of the Technical Specifications you should specify a test configuration (a list of needed equipment) for each test specified in Table 1 of General Functional Requirements. The list should contain references to equipment offered under Items 2.1 and 2.2 of the Technical Specifications and references to additional equipment (including cables and accessories) which tenderer finds needed to complete required test configuration. Please note that this additional equipment shall be included in the tenderer's financial offer and supplied with equipment specified under Items 2.1 and 2.2. Such approach in defining Technical Specifications was chosen because the goal of the Contracting Authority is to be able to perform specified EMC tests, not just to acquire instruments from predefined list. That's why Technical Specification contains specifications of test configurations, in addition to technical requirements for the instruments. Such approach enables tenderer to offer its own test configurations, which will be evaluated from the point of satisfying the specified EMC tests.
8	In Technical Specification for Lot2, on page 14, Item 2.2.2, there is a requirement that "the amplifiers shall be capable of delivering forward power required for achieving 10 V/m + 20 % at 3 m distance below 1 GHz and at 1 m distance above 1 GHz". However, on the page 5 of same Technical Specification, under the definition of EMC Test "T11", there is a requirement to provide "test equipment as stated in EN 61000-4-3 Clause 6, field up to 10 V/m (Test Level 3 in Table 1 of EN-61000-4-3)". Can you please clarify which requirement to follow?	Requirements provided in the Technical Specifications take precedence over the General Functional Requirements. Please note that in this case the requirement stated in the Technical Specifications shall be interpreted by the evaluation committee as the capability of amplifiers to withstand an overload of 20 % (in power) without shutdown or permanent damage.
9	Please confirm that no custom duty will be charged according to the customs agreement between EU and Serbia.	The European Commission and the Republic of Serbia have agreed in The Framework Agreement between the Federal Republic of Yugoslavia and the European Union, signed on 25 November 2000, and ratified on 31 March 2003 to fully exonerate the following taxes: value added tax and customs duties. Therefore, the tender financial offers shall not include value added tax and custom duties. Please note that commercial terms for the delivery of the goods will be DDP.

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10	<p>Technical Specifications for Lot 1, under items 1.1.4 and 1.1.5 define Manufacturer’s economic and financial capacity, and professional capacity. As a manufacturer of anechoic chambers that has done many projects similar to yours, we find very difficult to meet your requirements. In order to be competitive in the international marketplace, it is critical for us to reduce overheads wherever possible, to reduce inventory, to reduce staff levels to just a few specialists, and reduce manufacturing costs by subcontracting. Our business model makes us not capable to fulfill your economic and professional capacity requirements. Is there a possibility for us to deviate from those requirements for Lot1?</p>	<p>Please note that selection criteria for economic and financial capacity, professional capacity, and technical capacity of the tenderer are given in the Procurement Notice. No deviation from those selection requirements will be tolerated in the evaluation process.</p> <p>On the other side, economic and professional capacity of equipment manufacturer (not necessarily the same legal person as the tenderer) as required in the Technical Specifications are not considered to be selection criteria and will be used only for purpose of evaluating overall quality of the technical offer. Fulfillment of those technical requirements will be needed for completeness of the offer, and considered as an advantage.</p> <p>If you as a manufacturer of equipment can prove that your business model relies on capacities of other parties, than you shall provide economic and capacity data for both your company and your partners. Please note that evaluation committee will require formal proofs of long-term partnership between your company and your partners in order to accept stated manufacturer's capacity</p>