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CLARIFICATION (2)

PUBLICATION REFERENCE: EuropeAid/131105/D/SUP/XK, Supply of Containerized Data Center (PROC/258/11)

1. Questions regarding Annex II+III: Technical Specifications

No	Reference	Clarifications
1	The required Size of the Container module is given as: 12,192m x 3,3m x 2.896m (LxWxH). However, this means that the container will be out of gauge and this will be inconvenient as regards transportation etc. Please clarify if we could offer a Standard High Cube 40" Container?	Please refer to the Corrigendum no. 3.
2	The server racks (2U) with accessories - please clarify what is the required weight capacity of the server racks?	The required weight capacity (static load rating) of the 42U server racks is 1500kg per rack as per the technical specifications.
3	The precision cooling system - please clarify if you require only the stated cooling system with 4x units and condensers or if any other suggested by the manufacturer cooling system will be acceptable?	As long as the cooling system is redundant (N+1 configuration), meets all specifications regarding environmental controls as per the specifications and as long as it can support loads up to 120kW, it will be acceptable.
4	You have very precisely specified the size of the container - 12,192m x 3,3m x 2.896m (LxWxH) and Internal dimensions: 11.8Sm x 3m x 2.4Sm (LxWxH) and number of racks (8 x 42U). Would you accept technical solution of 6m container providing even more space for servers (10 x SOU racks)?	The number of racks is the minimum specification and therefore a higher number is acceptable. In addition please refer to the Corrigendum no. 3.

5	With reference to Annex II: Technical Specifications point 2.6. Please confirm availability of AVR board (usually supplied with diesel generators). Can we consider that supply of AVR board is out of the scope of the present tender? Please give us information about the power specifications of the provided generator and its distance from the DRS.	The generator is equipped with an AVR and therefore it does not have to be supplied. The generator on the site where the container will be installed is 550kVA and its distance from the location where the container will be installed approximately 50m.
6	With reference to Annex II: Technical Specifications point 1.3.6 "Contractor will provide information on time as to the foundation requirements". What "on time" means? Shall we include that information in our technical offer? Can we consider that building of the concrete foundation is responsibility of the Contracting Authority?	The Contracting Authority will ensure that the container is placed on the proper surface, but we will need that information in advance so that we can prepare the surface before the container is delivered.
7	With reference to Annex II: Technical Specifications point 2.5. Is there an earthing system and what its parameters are? Does it meet the requirements for the grounding of IT equipment?	The generator is grounded and there is no special provision for IT equipment grounding.
8	With reference to Annex II: Technical Specifications point 2. Does the electrical feeding line to the site for container will be provided or it is an obligation of the Contractor to install it? In the case that bringing power supply to the container covered by the project please indicate the distance and possible cable routes from the nearest point of supply with the necessary power to where the container will be positioned.	The Contracting Authority will provide the electrical power feeding line. The power cable is already there and it will only have to be connected to the container's electrical panel/electrical input.
9	With reference to Annex II: Technical Specifications point 5 it is specified: "The UPS system within the container will be configured to 120kVA rating with one redundant 30kVA module (configuration N+1). Sufficient batteries installed within the UPS and additional battery cabinets to provide back-up time for 30 minutes at 120kW load." Please confirm what is the maximum power to be provided for 30 minutes - 120kVA or 120kW?	The backup power to be provided is 30 minutes at 120kW load.
10	With reference to Annex II: Technical Specifications point 3. Could you please specify the heat produced from the equipment expected to be installed into the container?	At this point we cannot specify exactly the heat produced from the equipment that will be installed there.

	<p>Appeared in the technical specifications power refers to the heat or to electrical power of installed equipment?</p>	
11	<p>With reference to Annex II: Technical Specifications point 6. What is the maximum power output for each rack to be foreseen in the design of their power supply?</p>	<p>The maximum foreseen power output per rack is 20kW (please note that this is a maximum and it will not be reached on all racks, but planning should be made for it).</p>
12	<ul style="list-style-type: none"> Container module size: 12,192m x 3,3m x 2.896m (LxWxH) (internal dimensions: 11,85m x 3m x 2,45m (LxWxH)) <p>We believe the container dimensions given above are not regular ISO standard. For better competitiveness we kindly ask you to consider regular ISO standard container.</p> <p>Can we offer a container module with the following dimensions? :</p> <ul style="list-style-type: none"> Container module 40' HIGH CUBE size: 12,192m x 2,438m x 2,896m (LxWxH) (internal dimensions: 12,032m x 2,350m x 2,695m (LxWxH)) <p>Please kindly confirm if ISO standard container is acceptable.</p>	<p>Please refer to the Corrigendum no. 3.</p>
13	<ul style="list-style-type: none"> UPS system (120kVA), modular with N+1 power modules. <p>Is the UPS system mentioned above consists of a single unit? Is it possible to offer a 2 unit UPS system for better redundancy?</p> <ul style="list-style-type: none"> 2 unit UPS system (60kW), modular with N+1 power modules of 12kW with 6 minutes of batteries runtime at 100% of load. 	<p>It is acceptable to offer a 2-unit system as long as it meets the specified requirements.</p>
14	<p>1. Enclosure description</p> <p>1.1. Dimensions (indicative, may change slightly during final design and installation):</p> <ul style="list-style-type: none"> Container size: 12,192m x 3,3m x 2.896m (LxWxH). Internal dimensions: 11.85m x 3m x 2.45m (LxWxH). <p>We can offer a regular ISO container module with the following dimensions:</p>	<p>Please refer to the Corrigendum no. 3.</p>

	<ul style="list-style-type: none"> • Container module 40' HIGH CUBE size: 12,192m x 2,438m x 2,896m (LxWxH) (internal dimensions: 12,032m x 2,350m x 2,695m (LxWxH)) <p>Please kindly confirm if these dimensions are acceptable.</p>	
15	<p>1.2 Architectural Design</p> <p>1.2.1 Walls</p> <ul style="list-style-type: none"> • External walls made of external corrugated steel plates, painted, welded to basic steel structure, vertical and horizontal • Interior of the shelter is coated with 100mm thick mineral wool and steel panels (basic design) <p>We can offer the design mentioned below for fire resistance and other advancements:</p> <p>Panels of protection against fire will be composed by a sandwich of materials with fire resistance and thermal insulating to resist high temperatures and provide a watertight enclosure. The sandwich will be covered by two layers of galvanized and lacquered steel sheets. Panels are re-usable, allowing that an extension or movement of the room be a clean work (without dust or civil works that can delay the work because of request of permissions, etc), simply, fast and avoids to make new enclosures.</p> <ul style="list-style-type: none"> • Thickness: 80mm • Weight: 24kg/m² • Fire protection: FR120 <p>Acoustic isolation: 31dB</p> <p>Please kindly confirm if above mentioned Walls are acceptable for better competitiveness.</p>	As long as the technical specifications are met, the offered solution will be acceptable.
16	<p>1.2.4 Doors</p> <ul style="list-style-type: none"> • Door dimensions: <ul style="list-style-type: none"> - Equipment double door: 2000x2600 mm (WxH) - Personal single door: 900 x 2100 mm (WxH) <p>We believe the door dimensions above are</p>	Please refer to Corrigendum No. 3

	<p>used by a single manufacturer and are not commonly used. Please kindly confirm if the door dimensions below are acceptable for improved competitiveness:</p> <ul style="list-style-type: none"> - Equipment double door: 1600x2200 mm (WxH) • Personal single door: 1100 x 2200 mm (WxH) 	
17	<p>2.6.1 Power distribution units (PDUs)</p> <ul style="list-style-type: none"> • Each server rack will be equipped 1x intelligent powerstrip, 400V/3ph/50Hz input. Each power strip will be equipped with 6 x IEC-C13 receptacles module, 4 x IEC-C19 receptacles module and 3 x Schuko receptacles module. <p>Can we offer the following PDUs?:</p> <ul style="list-style-type: none"> • Each server rack will be equipped 1x monitored rack pdu, 400V/3ph/50Hz input. Each monitored power strip will be equipped with 6 x IEC-C13 receptacles module, 12 x IEC-C19 receptacles module and 6 x MCB receptacles module. <p>Please kindly consider above for competitiveness and confirm if acceptable.</p>	As long as the offered PDUs meet the technical specifications, they are acceptable.
18.	<p>5. UPS system</p> <ul style="list-style-type: none"> • The UPS system within the container will be configured to 120kVA rating with one redundant 30kVA module (configuration N+1). Sufficient batteries installed within the UPS and additional battery cabinets to provide back-up time for 30 minutes at 120kW load. <p>Please kindly consider the below specified UPS system for better competitiveness and confirm if acceptable.</p> <p>The UPS system within the container will be configured to 2 units of 60kW rating with one redundant 12kW module (configuration N+1). Sufficient batteries installed within the UPS and additional battery cabinets to provide back-up time for 6 minutes at 120kW load.</p>	It is acceptable to offer a 2-unit system as long as it meets the specified requirements.