

***ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER**

Contract title: Supply Contract for AIS and AES Equipment

Publication reference: EuropeAid/138-047/IH/SUP/RS

Lot 1: Increase the processing capabilities of CAS, enhance the reliability of the infrastructure and the ease of maintenance by purchasing physical data processing servers

Column 1-2 should be completed by the Contracting Authority

Column 3-4 should be completed by the tenderer

Column 5 is reserved for the evaluation committee

Annex III - the Contractor's technical offer

The tenderers are requested to complete the template on the next pages:

- Column 2 is completed by the Contracting Authority shows the required specifications (not to be modified by the tenderer),
- Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words “compliant” or “yes” are not sufficient)
- Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1	Type 1- Processing server Qty.5			
1.1	Chassis and Power supply Form factor/height: Rack mount, max.4U Power supply: Redundant, hot swap, Fans: Redundant, hot swap, min. 4 Pcs			
1.2	Motherboard Processor and Chipset: Support for 64-bit CPU and multicore CPU, must be from the same manufacturer. CPU sockets: min. 4 PCIe 3.0 slot: min. 9 USB ports: min.5			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1.3	Processor Number of processors: min.4 Clock rate: min. 2.2 GHz Number of cores per processor: min.16 L3 Cache: min. 40 MB			
1.4	Memory ECC Clock rate: min. 2133 MHz Capacity: min. 1024 GB, min. 96 DIMM slots			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1.5	<p>Local HD and HD configuration</p> <p>Capacity: min. 8 TB</p> <p>Speed: min. 7200 rpm</p> <p>Computer Bus Interface to connect the Hard Drives: SATA or SAS</p> <p>Hot swap</p> <p>RAID support: 0, 1, 5,6, 10 with Battery backup unit or Flash back up unit, min. 1GB cache</p>			
1.6	<p>Network Interface card (Not On-board, Integrated or Embedded)</p> <p>Dual port , 1 GBE, PCIe slot NIC: min.4</p> <p>Fail-over and Load-balancing</p>			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
1.7	Optical Fiber Channel Host Bus Adapter 2 X Dual Port , 8 Gbps Support for Multipath I/O, Fail-over and Load-balancing Compatibility with EMC VMAX storage			
1.8	Operating System (OS) support Microsoft Windows Server 2012 Standard, Microsoft Windows Server 2012 R2 Standard Red Hat Enterprise Linux 7, SUSE Linux Enterprise Server 12			
1.9	Internal or external optical drive DVD-RW			
2	Type 2 - Database server Qty.3			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
2.1	<p>Chassis and Power supply</p> <p>Form factor/height: Rack mount, max.4U</p> <p>Power supply: Redundant, hot swap,</p> <p>Fans: Redundant, hot swap, min. 4 Pcs</p>			
2.2	<p>Motherboard</p> <p>Processor and Chipset: Support for 64-bit CPU and multicore CPU, must be from the same manufacturer.</p> <p>CPU sockets: min. 4</p> <p>PCIe 3.0 slot: min. 9</p> <p>USB ports: min.7</p>			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
2.3	Processor Number of processors: min.4 Clock rate: min. 2.2 GHz Number of cores per processor: min.16 L3 Cache: min. 40 MB			
2.4	Memory ECC Clock rate: min. 2133 MHz Capacity: min. 512 GB, min. 96 DIMM slots			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
2.5	<p>Local HD and HD configuration</p> <p>Capacity: min. 6 TB</p> <p>Computer Bus Interface to connect the Hard Drives: SSD</p> <p>Hot swap</p> <p>RAID support: 0, 1, 5,6, 10 with Battery backup unit or Flash back up unit, min. 1GB cache</p>			
2.6	<p>Network Interface card (Not On-board, Integrated or Embedded)</p> <p>Dual port , 1GBE, PCIe slot NIC: min.4</p> <p>Fail-over and Load-balancing</p>			
2.7	<p>Optical Fiber Channel Host Bus Adapter</p> <p>2 X Dual Port , 8 Gbps</p> <p>Support for Multipath I/O, Fail-over and Load-balancing</p> <p>Compatibility with EMC VMAX storage</p>			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
2.8	<p>Operating System (OS) support</p> <p>Microsoft Windows Server 2012 Standard, Microsoft Windows Server 2012 R2 Standard</p> <p>Red Hat Enterprise Linux 7, SUSE Linux Enterprise Server 12</p>			
2.9	Internal or external optical drive DVD-RW			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
3	<p>GENERAL REQUIREMENTS</p> <p>Power Supply Standard</p> <p>All electrical equipment must be powered with 230V, 50Hz AC and must be equipped with CEE 7/4 "Schuko" power plugs. All devices must be compliant with Serbian and European Union electrical safety standards and follow EEC CE Marking Directive.</p> <p>Environmental Conditions</p> <p>Equipment must comply to IEC 60 529 standard for indoor IT equipment operating under temperature range of 10°C – 40°C, relative humidity range of 20% – 80% and IP 20 protection level, and must have RoHS certificate and comply to CE, WEEE standards.</p> <p>Place of Delivery</p> <p>The Supplies are to be delivered to and services are to be carried out in the CAS Headquarters 2 (ICT Division) located in Belgrade 11070, Narodnih Heroja 63.</p> <p>Installation, Configuration and Start-up</p> <p>Delivered servers must be equipped with all necessary items for installation and start-up: e.g., rack rails and hardware, cable management hardware, intra-rack cables, documentation CD, etc.</p>			

1. Item Number	2. Specifications Required	3. Specifications Offered	4. Notes, remarks, ref to documentation	5. Evaluation Committee's notes
	<p>The Contractor will be responsible for installation, configuration and start-up of the supplies delivered in accordance with the Technical Specifications and the directions provided by the Beneficiary.</p> <p>The Contractor will be responsible for integration of the supplies delivered with the existing infrastructure.</p> <p>The installation services must be performed by personnel having relevant Vendor Server Administrator certifications.</p> <p>Post-Completion Documentation</p> <p>The Contractor will be responsible for preparation of Technical Post-Completion Documentation describing the system implemented. It should include graphical description of interconnection between various elements, all hardware and software configuration details, start-up scripts and a description of mandatory maintenance procedures to be followed by the Beneficiary during day-to-day operation of the equipment. The Post-completion Documentation will subject to the approval of the Beneficiary and the Contracting Authority.</p>			

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	<p>Training</p> <p>The Contractor must provide the education necessary for CAS staff to be fully trained on the usage and maintenance of all hardware and software components of the delivered solution. All training materials must be packaged for electronically delivery and accessible for on-demand requests. Training should include minimum 2 days for up to 5 persons. Training should be organized by certified professionals, on the CAS premises.</p> <p>The training system must include full documentation (localised into Serbian or English). All training materials must be controlled and updated by the Contractor as needed to reflect the production state of the delivered items.</p>			
	<p>Warranty</p> <p>One year warranty after provisional acceptance in accordance with the conditions laid down in Article 32 of the General Conditions.</p>			

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	<p>Commercial Warranty</p> <p>Two-year commercial warranty by the manufacturer that the supply will be free from structural defects due to substandard material or workmanship, under conditions of normal commercial use and service. Commercial warranty must remain valid for two years after standard warranty period expires in accordance with the conditions laid down in Article 32 of the Special Conditions.</p>			