

**CAIET DE SARCINI**  
**(specificația tehnică deplină solicitată, standardele de referință)**  
**privind achiziționarea serverelor pentru necesitățile S.A. „Energocom”**

**1. DESCRIERE GENERALĂ**

Entitatea contractantă: S.A. „Energocom”

Obiectul achiziției: server

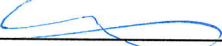
Codul CPV: 48820000-2

**2. CERINȚE MINIME FAȚĂ DE BUNURI:**

<b>1</b>	<b>Type</b>	Enterprise Server, Quantity = 2 pcs.
<b>2</b>	<b>Form factor</b>	Rack mount, min 1U (rail-kit included).
<b>3</b>	<b>CPU included</b>	<i>Quantity:</i> 2 x CPU per server. <i>Cores:</i> 16cores per CPU. <i>Threads:</i> 32 threads per CPU. <i>Base Clock Speed:</i> Min. 2.20 GHz. <i>Cache L2+L3:</i> în total Min. 80 MB. <i>Launch Date:</i> Not earlier than Q4'2024.
<b>4</b>	<b>Memory</b>	Min. 32 DDR5 slots.
<b>5</b>	<b>Memory included</b>	Min. 8 x 64GB DDR5 -6400 R ECC.
<b>6</b>	<b>Drives included</b>	Min. 2 x 240GB SSD for OS boot.
<b>7</b>	<b>Storage Adapters included</b>	1 x RAID controller for OS boot, 2 x SSD, RAID-1.
<b>8</b>	<b>NICs, ports, modules included</b>	Min. 1 x NIC, 4 x 1GbE ports. Min. 1 x NIC, 2 x 25GbE ports with 25G-SR SFP28 modules or 2 x direct attached cables with SFP28, 1m length. NIC's should support network virtualization offload. 25GbE NIC should support RDMA (RoCE v2) Min. 1 x Dedicated 1Gb/s Ethernet Port for remote management.
<b>9</b>	<b>Interfaces included</b>	Min. 2 x USB ports. Min. 1 x VGA port.
<b>10</b>	<b>Options included</b>	Trusted Platform Module 2.0.
<b>11</b>	<b>Supported operating environments</b>	Microsoft Windows Server®. Microsoft Hyper-V®. Red Hat® Enterprise Linux. VMware® (VMware® vSphere).
<b>12</b>	<b>Power supplies included</b>	2 Hot-Swap PSU with support for 1+1 redundancy. Power cables c13-c14
<b>13</b>	<b>Fan Modules included</b>	Hot-Swap with N+1 redundancy.
<b>14</b>	<b>Management included</b>	A web-based solution for KVM must be included with full functionality for manage and monitoring, including at least: -View information about the state of the managed server; -Inventory and monitoring of network adapters and data storage subsystems without software agents in the OS; -View inventory information; -View information from sensors; -Monitoring and control of electricity consumption; -Turn on/off the server; -Remote update of BIOS, firmware of network and RAID controllers; -Virtual console, virtual media devices; -OS installation from virtual media devices.
<b>15</b>	<b>Warranty</b>	Hardware and software support from vendor, with available customer portal. Next business day hardware replacement included for min. 3 years.
<b>16</b>	<b>Terms and conditions</b>	All requirements are minimum and mandatory. One requirement must not limit another requirement. All components must be current and not advertised as EOS / EOL. The expansion of memory (ram) and storage capacity must not include any hardware or software limitations.

### 3. CERINȚE GENERALE:

Echipamentele oferite în cadrul achiziției trebuie să fie noi, calitative, să nu fie recondiționate (refurbished) sau reparate, produse de producători renumiți, bine cunoscuți internațional în domeniul TI. Configurația echipamentului trebuie să fie compusă din componente reciproc compatibile și să asigure funcționarea optimă a sistemului în ansamblu.

Reprezentantul IT:  \_\_\_\_\_

Președintele grupului de lucru:  \_\_\_\_\_