Prebid clarification / Ammendment No. 1

Date: 21/10/2013


Subsequent to the Pre bid queries sought to clarification, received through email at itsupport@aiimsbhopal.edu.in/store@aiimsbhopal.edu.in till 24.09.2013 up to 17.30 Hrs, the following Clarification to Pre Bid Queries raised are circulated for the wider information to the prospective tenderers and requested them to download Pre Bid Clarification / Amendment No. 1 and submit the same along with their “Technical Bid” Envelope.

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<th>S. No.</th>
<th>Refere nce Equipment / Tender Section</th>
<th>Clause No. / Page No.</th>
<th>Clause</th>
<th>Desired Clause/ Reason</th>
<th>Clarification</th>
</tr>
</thead>
</table>
| 1     | General Specification               | Page no. 8            | in a 2-tier topology consisting of a central core switch followed by access switches in sequence to connect the desktops over Gigabit Ethernet Converter from both ends | Request to kindly delete this clause  
**Reason:** Based on the Specifications, BOQ and Architecture, 2-tier architecture is not applicable. Hence request to kindly remove the same. | The existing clause stands amended. The new clause should be read as: in a 2-tier or 3-tier topology consisting of a central core switch followed by Distribution switch and access switches or Core Switch directly connecting to access switches in sequence to connect the desktops over Gigabit Ethernet Converter from both ends |
<p>| | | | |</p>
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</thead>
</table>
| 2 | 48 Port Core Switch | Page no. 22 | • IGMP v1, v2, and v3  
  • IGMP filtering on access and trunk ports  
  • IP multicast routing protocols: DVMRP, PIM Version 2 (Sparse Mode & Dense Mode)  
  • Multicast Source Discovery Protocol (MSDP)  

Request to kindly delete this clause  
Reason: Asked features are very advanced and are not required based on the architecture. These features are on high end switches and will add unnecessary cost. Hence request to kindly remove the same.  
Existing clause amended. The new clause should be read as:  
• Support for IGMP v1, v2, and v3  
• IP Multicast routing protocols: support for PIM (Sparse mode & Dense mode).

| 3 | Router | Page no. 24 | Routing, Switching and wireless should be from same OEM for ease of Management and Integration.  

Request for Clarification  
Please clarify if Firewall also needs to be from same OEM.  
This would help in better integration and management.  
No changes. The preferred OEMs for Firewall is already mentioned in the tender document (Pg #24)

| 4 | Firewall | Page no. 24 | The appliance shall support high performance traffic forwarding and should support integrated Firewall and IPS capabilities.  

Request for Clarification  
Please clarify if IPS is required from day 1?  
The appliance shall support high performance traffic forwarding and should support integrated Firewall and IPS capabilities from day one. Signature based IPS updates should be available for the entire duration of warranty.  
The existing clause stands amended.  
In Page No. 28, the clause “Wireless LAN Controller should have configuration and management of at least 16 Access points from day 1”, should be read as “Wireless LAN Controller should have configuration and management of at least 32 Access points from day 1”  
In Page 28, The Clause “Indoor Wireless Access Point (Quantity-14)” should be read as “Indoor Wireless Access Point (Quantity-25)”

| 5 | Wireless Access Point | Page no. 28 | Please clarify the number of Access Points required.  

Request for Clarification  
Access Point quantity in specifications is 14 and it is 25 in the BOQ given on page 42. Request to kindly clarify the same as Access Point license on the Controller also needs to be procured for the same from day 1.  
In Page No. 28, the clause “Indoor Wireless Access Point (Quantity-14)” should be read as “Indoor Wireless Access Point (Quantity-25)”

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Please delete the below points:

**INPUT Voltage**
208 or 240VAC - 15% +0% (Input voltage and Frequency ranges are programmable via RS232 Port)

**OUTPUT Voltage (AC line)**
120, 208/120, 224/120 or 240/120VAC ± 5% Voltage (on inverter) 120, 208/120, 224/120 or 240/120VAC ±1% Crest Factor Capability

**Output Power Factor Limitations**
None

**Frequency (AC line)** follows input
**Frequency (on inverter) 60Hz ±0.01Hz**
**Frequency Slew Rate** 1-255Hz/sec (Programmable via RS232 port)
**Total Harmonic Distortion** < 1%
**Efficiency >93% overall at full load**
**Overload Rating** 150% for 1 min. 225% for 10 cycles

**OVERLOAD PROTECTION**
Output electronically current limited to 225% full load rating
Circuit Breakers provide backup protection to electronic current limit
Over temperature protection

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**The existing clause stands amended:** The new clause should be read as:

**ON-LINE 5.0KVA UPS SYSTEM**
(DOUBLE CONVERSION HIGH FREQUENCY–PWM TECHNOLOGY)
IGBT BASED TECHNOLOGY, MICROCONTROLLER BASED DESIGN, LCD DISPLAY, PURE SINE WAVE, USING IN BUILT ISOLATION TRANSFORMER AND CONSTANT VOLTAGE CONSTANT CURRENT CHARGER, BUILT IN PROTECTION AGAINST OVER VOLTAGE, OVERLOAD, SPIKES, TRANSIENT & BATTERY DISCHARGE, AUTOMATIC VOLTAGE REGULATIONS, AUDIO ALARMS WITH VRLA SMF BATTERIES 26AH-12V X 15 NOS. MOUNTED ON M. S. TROLLEY / RACK FOR APPROX. 1.0 HOUR BACK UP TIME ON LOAD
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BATTERY</strong></td>
<td></td>
</tr>
<tr>
<td>Sealed maintenance-free 5 year expected life</td>
<td></td>
</tr>
<tr>
<td>Battery voltage</td>
<td>108VDC nominal</td>
</tr>
<tr>
<td>Battery current</td>
<td>50 amps max</td>
</tr>
<tr>
<td>Backup time</td>
<td>7 min. on internal batteries (full load)</td>
</tr>
<tr>
<td><strong>INDICATORS AND CONTROLS</strong></td>
<td></td>
</tr>
<tr>
<td>LEDs</td>
<td>Indicate AC line, Inverter, Battery, and Overload status</td>
</tr>
<tr>
<td>Audible alarm</td>
<td>Audible alarm indicates loss of AC line, low battery, or overload</td>
</tr>
<tr>
<td>Reset Switch</td>
<td>Reset Switch silences alarm and resets overloads</td>
</tr>
<tr>
<td>Power ON/OFF switch</td>
<td>Power ON/OFF switch</td>
</tr>
<tr>
<td>RS232 Interface for remote communications of status and diagnostics</td>
<td>RS232 Interface for remote communications of status and diagnostics</td>
</tr>
<tr>
<td><strong>PHYSICAL (5KVA)</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temp</td>
<td>0°C-40°C ambient without derating</td>
</tr>
<tr>
<td>Storage Temp</td>
<td>20°C-40°C</td>
</tr>
<tr>
<td>Thermal</td>
<td>Internal forced air</td>
</tr>
<tr>
<td>Audible Noise</td>
<td>45 dBA</td>
</tr>
<tr>
<td>6' (with user specified plug)</td>
<td>6' (with user specified plug)</td>
</tr>
<tr>
<td>Output Receptacles (User</td>
<td>Output Receptacles (User)</td>
</tr>
</tbody>
</table>
|   |   | specified many Options available  
|   |   | RS232 Port  
|   |   | Interface for remote Communications  
|   |   | Dimensions:  
|   |   | Height 21"  
|   |   | Length 26"  
|   |   | Width 12"  
|   |   | Weight with internal batteries 325 lbs.  
|   |   | Color  
|   |   | PC Bone  
|   |   | OPTIONS  
|   |   | Output Voltage Regulation on AC line (Option -R)  
|   |   | Casters (Option -C)  
|   |   | AS/400 Contact Closures (Option -A)  
|   |   | Smoke Detector (Option -SM)  
| 7 | Cat -6 Cable | UTB cable requirement is for 750 point but quantity of cable is 5 Box. Is cable is already there, if not then how much qty of cable will be required as part of the entire project?  
| 8 |   | What will be the average cable length for each point?  
|   |   | Expected to be average 3 mtr. for each point to connect computers.  

750 Points patch cord is to be used for switching and provision of the user and 5 box cable is to connect different switches of different floors of the building.
<p>| | | | |</p>
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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
<td>Would request to share Diagram with dimension.</td>
<td>Since some parts of building is under construction. We can not provide exact diagram with dimensions. We can fix a visit if interested to see the exact workplace.</td>
</tr>
<tr>
<td>10</td>
<td>Router</td>
<td>For the switching requirement Extreme is mentioned as one of the preferred make but on page no. 24 of tender document under Router support Gigabit Network specification it is mentioned as “Routing, Switching and Wireless Should be from the same OEM for ease of Management and Integration”</td>
<td>Request you to please amend/remove the point so that we can participate as Extreme Network is in Switching and Wireless segment and not in Routing. We will quote Router of other approved make.</td>
</tr>
<tr>
<td>11</td>
<td>Wireless Access</td>
<td>Under the Wireless Access Point Technical Specification it is mentioned as: # Wireless LAN Controller 1no # Indoor Wireless Access Point quantity 14 no # Under Quantity Column 25 nos is mentioned # In Chapter 7 Financial Bid page no. 42</td>
<td>The existing clause stands amended. In Page No. 28, the clause “Wireless LAN Controller should have configuration and management of at least 16 Access points from day 1”, should be read as “Wireless LAN Controller should have configuration and management of at least 32 Access points from day 1” In Page 28, The Clause “Indoor Wireless Access Point (Quantity-14)” should be read as “Indoor Wireless</td>
</tr>
<tr>
<td>Page No.</td>
<td>Description</td>
<td>Details</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Wireless Access Point Qty 25nos is mentioned and is not having any row for mentioning the price of Wireless LAN Controller Qty 1no.</td>
<td>Access Point (Quantity-25)”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Item no. 11 UPS 5KVA Qty 1no it is mentioned as: VRLA SMF BATTERIES 26AH-12V X 15 NOS. MOUNTED ON M. S. TROLLEY / RACK FOR APPROX. 1.0 HOUR BACK UP TIME ON LOAD</td>
<td>DC voltage varies from manufacturer to manufacturer in UPS. Request you to please amend / remove 26AH-12V X 15 NOS batteries. We will quote for appropriate number of batteries to achieve the backup time mentioned in the tender. The Said clause accepted. Backup time will be remain same but battery quantity will be vary.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Item no. 11 UPS 5KVA Qty 1no under BATTERY it is mentioned as: Backup time 7 min. on internal batteries (full load)</td>
<td>5KVA online UPS doesn’t come with internal battery. Request you to please amend / remove the point so that we can quote the item. Already Answer, please refer to clause no.06</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>‘A’ it is mentioned as: A Registered Office or Branch Office or Technical Support Office of the participating firm should be located preferably at Bhopal City. Availability of</td>
<td>Request you to please clarify can we participate in the tender. We are having our registered office in Nagpur. The maximum response time for attending</td>
<td></td>
</tr>
</tbody>
</table>

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a responsible person on call on all working days between 09.00 Hours to 17.30 Hours, so that the 24x7 onsite Service Support under 36 Months warranty obligations as per requirement of AIIMS Bhopal may expedited. And on page no. 15 under point 29 Warranty clause ii it is written as: **The on-site replacement warranty shall remain valid for a period of 36 Months** from the date of recording of acceptance of goods at AIIMS Bhopal. Free maintenance services shall be provided by the Bidder during **the period of warranty for 3 year period inclusive of all spare parts and labour etc.** The maximum response time for maintenance complaint from any of the destinations specified in the Schedule of Requirements/Work/Purchase order (i.e. time required for bidders maintenance Engineer to report at the installation after a request call/email maintenance complaint from our side will be much less than 48 hours. **Conflicts Field**
| 15 | 48 Port Core Switch | Certified: UL, TUV, IEC, EAL3 | Certifications required: UL, TUV, IEC, EAL3/NDPP  
**Reason:** NDPP is current method of common criteria body, which used to provide EAL certifications, please refer to commonc criteria.org or NIAP website  
No amendment to the clause. Existing clause stands valid.  
As on date, STQC, under Department of Electronics & Information Technology, Govt. of India, continues to use EAL certifications. Hence, Common Criteria EAL3 certifications shall be acceptable without any further amendment to the clause. |
| 16 | 48 Port Core Switch | • IP multicast routing protocols: DVMRP, PIM Version 2 (Sparse Mode & Dense Mode) | • IP multicast routing protocols: PIM Version 2 (Sparse Mode & Dense Mode)  
**Reason:** DVMRP is a legacy protocol of specific OEM, kindly remove the same.  
The existing clause stands amended. The revised clause should be read as:  
IP Multicast routing protocols: support for PIM (Sparse mode & Dense mode). |
| 17 | 48 Port Core Switch | • Analysis support, including ingress port, egress port, and VLAN SPAN | • Analysis support, including ingress port, egress port, and traffic type.  
**Reason:** VLAN SPAN is specific term used by specific vendor, kindly remove the same.  
The existing clause stands amended. The revised clause should be read as:  
• Analysis support, including ingress port, egress port, and VLAN traffic mirroring. |
| 18 | Router | Total onboard WAN 10/100/1000 Ports 8 RJ-45-based ports 8 | Total onboard WAN 10/100/1000 Ports 6 RJ-45-based ports.  
**Reason:** Kindly consider reducing port  
The existing clause stands amended. The revised clause should be read as: Total onboard WAN 10/100/1000 Ports 4 |

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<tr>
<th>No.</th>
<th>Equipment</th>
<th>Specification</th>
<th>Reason</th>
<th>Changes Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Router</td>
<td>Open slot for LAN and WAN Connectivity - slots 4</td>
<td>Open slot available after providing required ports should be 4. <strong>Reason:</strong> Kindly consider amending the language to reduce ambiguity.</td>
<td>The existing clause stands amended. Changes Accepted:</td>
</tr>
<tr>
<td>20</td>
<td>Router</td>
<td>Memory DRAM - Minimum 1GB Memory DRAM) - Maximum 2 GB</td>
<td>Memory DRAM - Minimum 512 MB Memory DRAM) - Maximum 1 GB. <strong>Reason:</strong> Memory size is dependent on OS type; higher memory has no performance connection, kindly amend to allow participation.</td>
<td>No changes to the existing clause. This is the minimum requirement bidders are free to quote better/higher equipment. Higher memory indeed enhances performance by offering more space to load routing policies, ACLs, etc. It helps in reducing latency. All leading OEM models these days support 1GB memory and 2GB or more Flash.</td>
</tr>
<tr>
<td>21</td>
<td>Router</td>
<td>Router should be minimum EAL 3 Certified</td>
<td>Router should be minimum EAL 3 /NDPP Certified. <strong>Reason:</strong> NDPP is current method of common criteria body, which used to provide EAL certifications, please refer to commoncriteria.org or NIAP website.</td>
<td>No amendment to the clause. Existing clause stands valid. As on date, STQC, under Department of Electronics &amp; Information Technology, Govt. of India, continues to use EAL certifications. Hence, Common Criteria EAL3 certifications shall be acceptable without any further amendment to the clause.</td>
</tr>
</tbody>
</table>
| 22 | Wireless LAN Controller | Should support in-Service software upgrade | Should support software upgrade without affecting access points service.  
**Reason:** ISSU is feature of Core Switch and Router, kindly amend to reduce ambiguity. | The existing clause stands amended. The revised clause should be read as: Support for in-Service software upgrade preferred wherein access point service is not affected during the upgrade. |
| 23 | Wireless LAN Controller | Should support in-Service software upgrade | Should support software upgrade without affecting access points service.  
**Reason:** ISSU is feature of Core Switch and Router, kindly amend to reduce ambiguity. | The existing clause stands amended. The revised clause should be read as: Support for in-Service software upgrade preferred wherein access point service is not affected during the upgrade. |
| 24 | Wireless Access Point | Should support WIPS | Should support WIDS/WIPS.  
**Reason:** Wireless devices do not perform full IPS, therefore kindly amend the same to allow participation. | No changes to clause. Most standard OEM Access Points have the capability to be configured in a Sensor mode with a centralized WIPS controller. In this tender, the clause desires that this capability should be there in the AP if a central WIPS appliance is deployed. This will eliminate the need for separately procuring costly WIPS sensors. |
| 25 | Cable Managing System | 1. Type : Unshielded twisted pair Cabling Managing System, Certificate by Intertek (ETL) for the 4-Connectors channel testing to the Cat 6 Cabling Managing system as per the ANSI/TIA 568 C.2 & as well as the ISO 11801 standards up to 600 MHz Compliance 2. Networks Supported: 10 /100/1000 GB Ethernet, 155 | Changes Accepted: Cable Managing System should be read as: 1. Type : Unshielded twisted pair Cabling Managing System, Certificate by Intertek (ETL) for the 4-Connectors channel testing to the Cat 6 Cabling Managing system as per the ANSI/TIA 568 C.2 & as well as the ISO 11801 standards up to 600 MHz Compliance 2. Networks Supported: 10 /100/1000 GB Ethernet, 3. Approvals: TIA / EIA 568-B.1, ETL Verified: IEEE 802.3ab, Zero-bit Error, ETL verified 4. Performance characteristics to be provided along with bid: Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and |
Note:

1. The total quantity of the switch mention in 20 nos. in which only One Switch should be core switch.
2. In the technical specifications everywhere preferred make is mentioned should be read without preferred make.