



भारतीय प्रतिस्पर्धा आयोग  
Competition Commission of India



Tender No.: RFP/CCI-ITD/2014/01

Dated: 05.03.2014

**CORRIGENDUM**

The Bid Evaluation Committee (BEC) held a pre-bid Conference with the prospective bidders on 25<sup>th</sup> February 2014 in the Office of CCI. After having considered all the suggestions/views received from the bidders, the following amendments in RFP have been approved by the competent authority.

S.No	Reference	RFP Condition	Amendment by CCI
1	Volume- 1, Page No. 30, Section 6	The scope includes setting up ICT at NICS I Data Centre & DR Centre, and CCI Offices.	The scope includes setting up ICT at NIC Data Centre and CCI Offices.
2	Volume- 1, Page No. 30, Section 6, Clause 6.3	Installation, commissioning and maintenance of all necessary hardware, system software (like Operating system, database, and anti-virus etc.), networking equipment and its connectivity in NICS I DC and CCI, as indicated in Vol.II.	Installation, commissioning and maintenance of all necessary hardware, system software (like Operating system, database, and anti-virus etc.), networking equipment and its connectivity in NIC DC and CCI, as indicated in Vol.II.
3	Volume- 1, Page No. 32, Section - 6, Clause 6.5	In addition to the above licenses required for the indicated users, CCI may require additional licenses every year that will be supplied by the SI as and when so requisitioned. The assessment of total number of such licenses so taken during the preceding year shall be done at the end of each year and payment for these licenses shall be made at that time. If the licenses are supplied as per user basis as and when required, payment can be released on pro rata basis.	Removed from RFP
4	Volume- 1, Page No. 33, Section 6, Clause 6.7	6.7.1 Third Party Testing and Auditing: The deployed solution (Data Centre, Network and Applications etc.) shall be accepted after appropriate testing and auditing by STQC Directorate.	6.7.1 Third Party Testing and Auditing: The deployed solution (Data Centre, Network and Applications etc.) shall be accepted after appropriate testing and auditing by STQC Directorate. The cost of testing and third party audit will be borne by SI.

5	Volume- 1, Page No. 37, Section 6, Clause 6.15	6.15 Licensing: • All the licenses will be procured in the name of Competition Commission of India. • The Bidder shall provide enterprise wide licenses without constraints of Number of CPU/Number of Core/Number of Users for all applications and system software. The enterprise means both present offices and any new office opened in India during this engagement. • All the licenses shall be owned by CCI even after the end of 5 years of date of go-live.	6.15 Licensing: • All the licenses will be procured in the name of Competition Commission of India. • The Bidder shall provide enterprise wide licenses without constraints of Number of CPU/Number of Core/Number of Users for all applications and system software. The enterprise means both present offices and any new office opened in India during this engagement. • All the licenses shall be owned by CCI even after the end of 5 years of date of go-live and any upgradation of application and subsequent licenses during the lifetime of the project will be provided by SI and the cost will be borne by SI.																																
6	Volume- 1, Page No. 101, Annexure - 19, Clause 8	8. Application Level SLA: Number of concurrent users- 300	8. Application Level SLA: Number of concurrent users- 100																																
7	Volume- 2, Page No. 8, 2.3 Deployment Architecture	It is suggested that the IT components at DRC should be exact replica of the DC facilities with NIC. The RTO and RPO would be the same as per NIC policies applicable to disaster recovery procedures.	Removed from RFP																																
8	Volume- 2, Page No. 8, 2.3 Deployment Architecture	The LAN should support IPv6 and provide 1 Gbps Ethernet connectivity to end users. The LAN Setup should be designed with Core, Distribution & Access layers with component level redundancy as shown in the diagram below.	The LAN should support IPv6 and provide 1 Gbps Ethernet connectivity to end users. The LAN Setup should be designed with Core, Distribution & Access layers with component level redundancy as shown in the diagram. All networking components including but not limited to Installation/laying of cables, Racks, Switches, LAN Cards etc. will be provided by SI.																																
9	Volume- 2, Page No. 8, 2.3 Deployment Architecture	<table border="1" data-bbox="467 1373 946 1608"> <thead> <tr> <th>Equipment</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>Internet Router</td> <td>2</td> </tr> <tr> <td>Core Switches</td> <td>2</td> </tr> <tr> <td>8 Port Giga Ethernet Switch</td> <td>2</td> </tr> <tr> <td>Central Router for MPLS - VPN</td> <td>2</td> </tr> <tr> <td>Wireless Access Points</td> <td>18</td> </tr> <tr> <td>Wireless LAN Controller</td> <td>1</td> </tr> </tbody> </table> <p>Bandwidth of 8 mbps MPLS is recommended between DC and CCI Office</p>	Equipment	Quantity	Internet Router	2	Core Switches	2	8 Port Giga Ethernet Switch	2	Central Router for MPLS - VPN	2	Wireless Access Points	18	Wireless LAN Controller	1	<table border="1" data-bbox="970 1373 1473 1608"> <thead> <tr> <th>Equipment</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>Internet Router</td> <td>2</td> </tr> <tr> <td>Core Switches</td> <td>2</td> </tr> <tr> <td>8 Port Giga Ethernet Switch</td> <td>2</td> </tr> <tr> <td>Central Router for MPLS - VPN</td> <td>4</td> </tr> <tr> <td>Wireless Access Points</td> <td>18</td> </tr> <tr> <td>Wireless LAN Controller</td> <td>1</td> </tr> <tr> <td>Access Switch 48 Port</td> <td>6</td> </tr> <tr> <td>Access Switch 24 Port</td> <td>2</td> </tr> </tbody> </table> <p>Primary Bandwidth of 8 mbps MPLS is recommended between DC and CCI Office Secondary Bandwidth of 4 mbps MPLS is recommended between DC and CCI Office Primary Bandwidth of 10 mbps MPLS is recommended between CCI Office and DG Office Secondary Bandwidth of 10 mbps MPLS is recommended between DC and CCI Office Primary Internet Bandwidth of 10 mbps is recommended at CCI Office which will be shared with DG Office via MPLS link Secondary Internet Bandwidth of 10 mbps is recommended at CCI Office which will be shared with DG Office via MPLS link</p>	Equipment	Quantity	Internet Router	2	Core Switches	2	8 Port Giga Ethernet Switch	2	Central Router for MPLS - VPN	4	Wireless Access Points	18	Wireless LAN Controller	1	Access Switch 48 Port	6	Access Switch 24 Port	2
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11	Volume- 2, Page No. 9-10, 2.3 Deployment Architecture	2.3.1 Data centre, 2.3.2 CCI Office, 2.3.3 DG Office	Modified diagram - refer Annexure -1
12	Volume- 2, Page No. 11, 3 General Specification	3. General Specification	New Specifications added - refer Annexure - 2
13	Volume- 2, Page No. 49, 4.6.4 Technical Specifications	System Management: The solution should integrate with the existing LDAP infrastructure for Authentication and provide Administrative roles based on Directory groups. Should have out-of- the-box integration with Cisco Iron Port, Microsoft AD-RMS, and the proposed solution.	System Management: 2. The solution should integrate with the existing LDAP infrastructure for Authentication and provide Administrative roles based on Directory groups.
14	Volume- 2, Page No. 52, 4.6.4 Technical Specifications	Automated Remediation /Data Protection : Automatically copy, move, encrypt, and quarantine files which violate policy. Automatically Notify the file owner and automatic remediation by applying Microsoft RMS templates	Automated Remediation /Data Protection : Automatically copy, move, encrypt, and quarantine files which violate policy. Automatically Notify the file owner and automatic remediation.
15	Volume- 2, Page No. 145, 5.1 DMS Server	5. Memory: 64GB 1600 MHz DDR3 RAM upgradable up to 1.0TB with support of memory mirroring, ECC	5. Memory: 64GB 1600 MHz DDR3 RAM upgradable up to 1.0TB with advanced ECC
16	Volume- 2, Page No. 146, 5.2 Database Server	5. Memory: 64GB 1600 MHz DDR3 RAM upgradable up to 1.0TB with support of memory mirroring, ECC	5. Memory: 64GB 1600 MHz DDR3 RAM upgradable up to 1.0TB with advanced ECC
17	Volume- 2, Page No. 147, 5.3 Blade Server	CPU: 2 x Hex Core x86 based CPU E5- 2620, 2.0 GHz ,15MB L3 Cache	CPU: 2 x 8 Core x86 based CPU E5-2665, 2.4 GHz ,20 MB L3 Cache
18	Volume- 2, Page No. 148, 5.3 Blade Server	Cache L3: 15MB of L3 Cache or better	Cache L3: 20 MB of L3 Cache or better
19	Volume- 2, Page No. 148, 5.3 Blade Server	5. Memory: 32GB DDR-3 1600 MHz DIMMS Memory Upgradeable to 512GB. Minimum 24 slots and Min 50% should be vacant after configuring the 128GB RAM for future Expansion	5. Memory: 32GB DDR-3 1600 MHz DIMMS Memory Upgradeable to 512GB. Minimum 16 slots and Min 50% should be vacant after configuring the 32GB RAM for future Expansion
20	Volume- 2, Page No. 148, 5.3 Blade Server	6. Memory protection support- ECC, Memory Mirroring, Memory Sparing, chip kill/advanced ECC	6. Memory protection support- ECC, Memory Sparing, chip kill/advanced ECC

21	Volume- 2, Page No. 148, 5.3 Blade Server	7. RAID Controllers: Integrated Hardware Raid Controller to supports Hardware Raid RAID 0, 1, 5, 6 with 1Gb flash cache using Optional Upgrade Should Support Cache Vault flash cache protection using Optional upgrade to avoid the possibility of data loss or corruption during a power or server failure and transfer data to NAND Flash	7. RAID Controllers: Integrated Hardware Raid Controller to supports Hardware Raid RAID 0, 1 with 1Gb flash cache using Optional Upgrade Should Support Cache Vault flash cache protection using Optional upgrade to avoid the possibility of data loss or corruption during a power or server failure and transfer data to NAND Flash
22	Volume- 2, Page No. 148, 5.3 Blade Server	10. Ethernet Adapter: Server should be configured with 4 Number of 10G Converged ports and should have the vNIC functionality. Should support FCOE and ISCSI functionality.	10. Ethernet Adapter: Server should be configured with two 10G Converged ports and should have the vNIC functionality. Should support FCOE and ISCSI functionality.
23	Volume- 2, Page No. 148, 5.3 Blade Server	15. Failure Alerting Mechanism: The server should be able to alert impending failures on maximum number of components. The components covered under alerting mechanism should at least include Processor, memory and HDDs, POST.	15. Failure Alerting Mechanism: The server should be able to alert impending failures on maximum number of components. The components covered under alerting mechanism should at least include Processor, memory and HDDs.
24	Volume- 2, Page No. 149, 5.3 Blade Chassis	2. Blade Bays: Per Chassis minimum 14 Half height/Wide or half height/wide Slots to accommodate the 2 socket blades and 4 Socket Blades	2. Blade Bays : Per Chassis minimum 14 Half height/Wide or 8 full height/wide Slots to accommodate the 2 socket blades and 4 Socket Blades
25	Volume- 2, Page No. 149, 5.3 Blade Chassis	4. Ethernet IO Module (10GB): Minimum 2 nos of 10Gbps Converged switch with L2 and L3(VRRP) capabilities to support 4 Ports in Dual socket server and 8 ports in quad socket Server , Should having VM ready open standards and support vNIC capabilities, The Minimum number of uplinks 10 nos- 8 x 10Gbps(Omni Ports to support 8Gbps FC and 10Gbps Ethernet & 2x 1Gbps to support legacy) needs to be populated. If vendor is providing the top of Rack switch then Proposed switch should be configured in the way so that there is no single point of failure and the total uplink bandwidth per server port is at least 10 Gbps for proposed servers. In the Switch total no of Ports should be Total server count ports along with additional 10 nos of Uplink ports needs to be configured. All 1Gbps and 10Gbps uplink ports should be active and configured with necessary SFPs and cables(Minimum 5Mtr Length)	4. Ethernet IO Module (10GB): Minimum 2 nos of 10Gbps Converged switch with L2 and L3(VRRP) capabilities to support 2 Ports in Dual socket server and 4 ports in quad socket Server , Should having VM ready open standards and support vNIC capabilities, The Minimum number of uplinks 8 nos- 4 x 8Gbps(Omni Ports to support 8Gbps FC and 10Gbps Ethernet) & 4x 10Gbps needs to be populated. If vendor is providing the top of Rack switch then Proposed switch should be configured in the way so that there is no single point of failure and the total uplink bandwidth per server port is at least 10 Gbps for proposed servers. In the Switch total no of Ports should be Total server count ports along with additional 10 nos of Uplink ports needs to be configured. All 1Gbps and 10Gbps uplink ports should be active and configured with necessary SFPs and cables(Minimum 5Mtr Length)

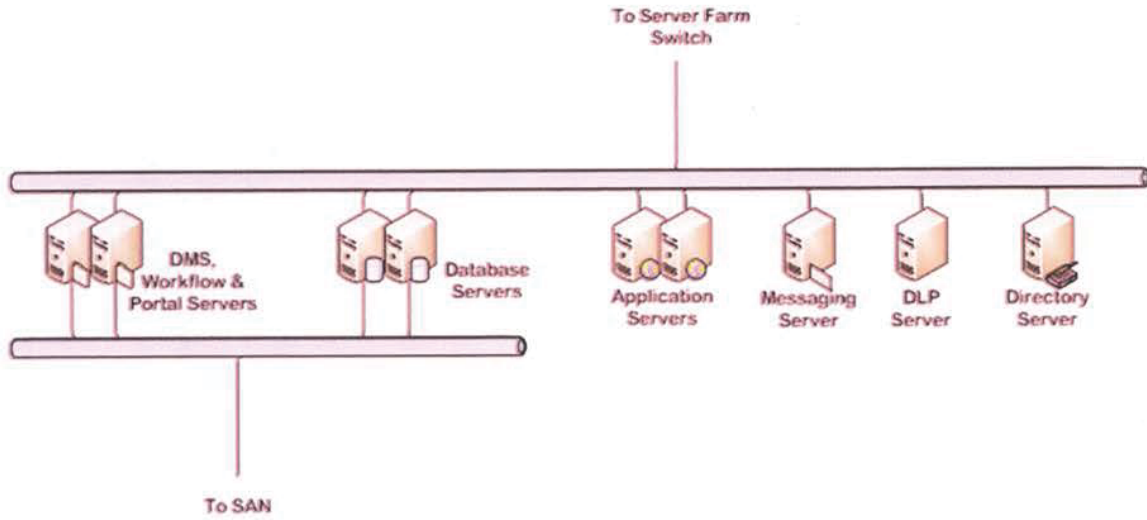


26	Volume- 2, Page No. 151, 5.3 Blade Chassis	<p>9. Chassis Management Module: Integrated two redundant chassis Management Modules providing IP based management of the compute nodes and vital elements like FC and Ethernet Switches and should be configured in automatic failover mode • Should allow Role based access and Support up to 32 simultaneous sessions • Should Support Multi Chassis Monitoring • Remote administration without External KVM Console • Should use the Dedicated integrated Controller/port on compute Nodes to manage the Nodes and other components • Should provide management for controlling Power, Fan management, Chassis and compute node initialization, Switch management, Resource discovery and inventory management, Resource alerts and monitoring management, Chassis and compute node power management and diagnostics for elements including Chassis, I/O options and compute nodes. • Should Support the BIOS update even if the Server is Switched Off • Operating system failure window (blue screen) capture and display through the web interface • Syslog alerting mechanism that provides an alternative to email and SNMP traps • Secured security Policy with complex password policies for user and Mandatory change of password for all user accounts at first login • Should Support SSL, SSH, Https based access only for secured communication • Should able to Backup the current configuration and also can be able to restore previous configuration • There should be status indicator in console as Red or Green or Orange to check the health of the component • Should able to generate reports on the hardware activity changes. • Should show real time power consumption in the compute nodes</p>	<p>9. Chassis Management Module: Integrated two redundant chassis Management Modules providing IP based management of the compute nodes and vital elements like FC and Ethernet Switches and should be configured in automatic failover mode • Should allow Role based access and Support up to 32 simultaneous sessions • Should Support Multi Chassis Monitoring • Remote administration without External KVM Console • Should use the Dedicated integrated Controller/port on compute Nodes to manage the Nodes and other components • Should provide management for controlling Power, Fan management, Chassis and compute node initialization, Switch management, Resource discovery and inventory management, Resource alerts and monitoring management, Chassis and compute node power management and diagnostics for elements including Chassis, I/O options and compute nodes. • Syslog alerting mechanism that provides an alternative to email and SNMP traps • Secured security Policy with complex password policies for user and Mandatory change of password for all user accounts at first login • Should Support SSL, SSH, Https based access only for secured communication • Should able to Backup the current configuration and also can be able to restore previous configuration • There should be status indicator in console as Red or Green or Orange to check the health of the component • Should able to generate reports on the hardware activity changes. • Should show real time power consumption in the compute nodes</p>
27	Volume- 2, Page No. 152, 5.3 Blade	<p>11. System Panel: LEDs on the front information panel that can be used to obtain the status of the chassis Identify,</p>	<p>11. System Panel: LCD/LEDs on the front information panel that can be used to obtain the status of the chassis Identify,</p>

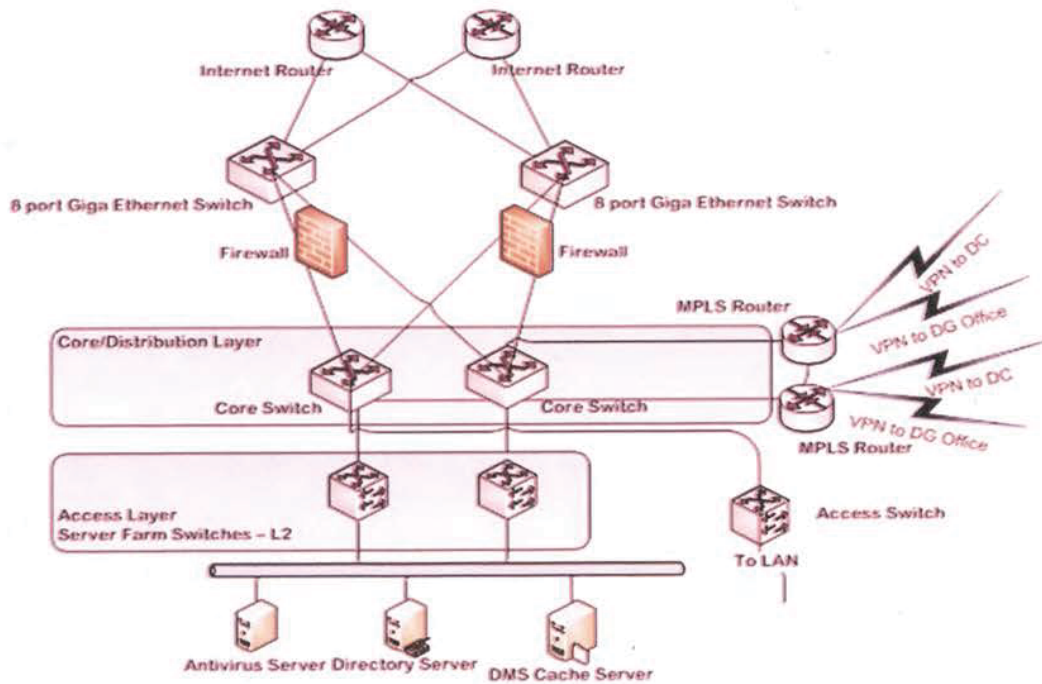
	Chassis	Check log and the Fault LED	Check log and the Fault LCD/LED
28	Volume- 2, Page No. 152, 5.5 SAN Storage	5.5 SAN Storage	Section 5.5 removed from RFP
29	Volume- 2, Page No. 161, 5.10 Core Switch	iii. x 10G SFP+ Ports	iii. 4x 10G SFP+ Ports
30	Volume- 2, Page No. 164, Access Switch-24 Ports	Architecture: 4. Min. 48 Gbps switching capacity	Architecture: 4. Min. 88 Gbps switching capacity
31	Volume- 2, Page No. 165, Access Switch-48 Ports	Architecture: 4. Min. 96 Gbps switching capacity	Architecture: 4. Min. 136 Gbps switching capacity
32	Volume- 2, Page No. 165, Section 5, 5.12 Access Switch-48 Ports	The switch should have 48 x 10/100/1000BaseT ports with 4 x 1000 Base-SXSFP ports. 1 x 1000 Base-LX to be supplied with LC type connector	The switch should have 48 x 10/100/1000BaseT ports with 4 x 1000 Base- SXSFP ports with 1 x 1000 Base-LX to be supplied with LC type connector
33	Volume- 2, Page No. 166, Access Switch POE	Architecture: 4. Min. 48 Gbps switching capacity	Architecture: 4. Min. 88 Gbps switching capacity
34	Volume- 2, Page No. 180, 5.21 Biometric device	Optical architecture : Dual prism, macro lens	Optical architecture : Dual prism, macro lens / Equivalent or better
35	Volume- 2, Page No. 180, 5.21 Biometric device	Glass thickness / type : 25mm/crown scratch resistant	Glass thickness / type : 25mm/crown scratch resistant Equivalent or better

## Annexure: 1 Diagram

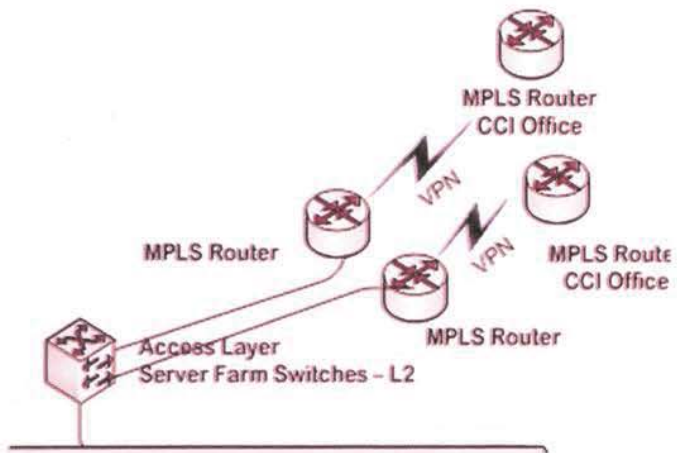
### 2.3.1 Data Centre



### 2.3.2 CCI Office



### 2.3.3 DG Office





## Annexure: 2 General Specifications

### 21. Indicative No. of Users:

- DMS and Workflow: 150
- Email and Messaging: 150 1GB per users
- Physical File Tracking: 200
- Management Information System Software: 150
- Human Resource Management System: 6
- Payroll: 6
- Employee Self Service: 200
- Front Office Management: 6
- RFID based Library Management System: 5 Admin
- Forensic Analysis Software: 5
- Finance and Accounts Software: 6
- Inventory and Asset Management: 6
- Seminar and Event Management: 6
- Business Intelligence and Business Analytics : 20
- Knowledge Management System: 150
- Electronic Record Management System: 20
- E-Discovery: 20
- Audio/Video Conferencing
  - Max. no. of users connecting at one time: 16
  - Locations: 2
  - Mobility: Required
  - No. of Users/Nodes: 25

### 22. Number of concurrent users: 100

23. The user count above is only for reference purpose, the Bidder shall provide enterprise wide licenses without constraints of Number of CPU/Number of Core/Number of Users for all applications and system software. The enterprise means both present offices and any new office opened in India during this engagement.

24. DRC is not provisioned in the scope of the work.

25. All integration of the solution with NIC services such as co-location, backup, storage will be the responsibility of SI. Any Hardware or Software not mentioned in the specifications, but required for integration will be provided by SI.

26. All hardware, software / licenses, network equipment's etc. purchased/ deployed as a part of the solution will come under the sole ownership of CCI. Any issues related with the connectivity, interface, adapter, etc. have to be looked into in totality and any missing items in the Specification shall be provided by the SI. In case, the SI does not specify any additional hardware / software / services and the same are found to be necessary while attempting to install and commission the items, such additional hardware / software / services shall have to be supplied by the SI free of cost.

27. The software applications identified by CCI as mentioned in Phase I & II, Page 4, Section I of this document should work independently of each other and be able to run in a standalone mode. CCI reserves the right to remove any application of the solution from implementation, depending on the needs of the CCI without assigning any reasons.

28. Any upgradation / addition to hardware including but not limited to servers, networking equipment etc. in order to meet the SLAs during the lifetime of the project will be borne by SI.

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