

**Meghalaya Information Technology Society (MITS)**  
Department of Information Technology  
Government of Meghalaya

**REQUEST FOR PROPOSAL  
FOR  
SELECTION OF SYSTEM INTEGRATOR  
FOR  
SUPPLY, INSTALLATION, COMMISSIONING, MANAGEMENT AND  
MAINTENANCE OF COMPUTING INFRASTRUCTURE, DATA ENTRY ETC  
FOR  
STATE-WIDE ROLLOUT OF  
E-DISTRICT MISSION MODE PROJECT IN MEGHALAYA**

Ref No: ITR.49/2010/Pt/539

**CORRIGENDUM IV**  
**Dated 12<sup>th</sup> August, 2014**



**Meghalaya**  
**Information Technology Society**



**Further to RFP Document [Ref No.: ITR.49/2010/Pt/539] and all subsequent Corrigenda thereof, amendments are notified as below. All other requirements / specifications / information / Terms and Conditions remain unchanged except as given below.**

<b>Note: MITS encourages bidders to leverage the existing IT infrastructure at SDC wherever possible and quote accordingly.</b>			
<b>Sl. No.</b>	<b>RFP Document Reference(s) (Section &amp; Page Number(s))</b>	<b>Original Clause</b>	<b>Modified Clause</b>
1.	5.5.3. Venue & Deadline for Submission of Proposals, Page 11, RFP Vol 1	a) Proposals, in its complete form in all respects as specified in the RFP, must be submitted to MITS at the address specified in Section 2 above.	a) Proposals, in its complete form in all respects as specified in the RFP, must be submitted to MITS at the address specified in Section 2 above before <b><u>3 p.m. on 22<sup>nd</sup> September 2014.</u></b>
2.	5.6.1 Tender Opening, Page 12, RFP Vol 1	5.6.1 Tender Opening I. The Proposals submitted up to 3:00 pm on 10th January 2014 will be opened at 3:30 pm on 10th January 2014 by Member Secretary, Meghalaya Information Technology Society or any other officer authorized by MITS, in the presence of such of those Bidders or their representatives who may be present at the time of opening. II. The representatives of the bidders should be advised to carry the identity card or a letter of authority from the tendering firms to identify their bonafides for attending the opening of the proposal.	5.6.1 Tender Opening I. The Proposals submitted <b><u>up to 3:00 pm on 22<sup>nd</sup> September 2014 will be opened at 3:30 pm on 22<sup>nd</sup> September 2014</u></b> by Member Secretary, Meghalaya Information Technology Society or any other officer authorized by MITS, in the presence of such of those Bidders or their representatives who may be present at the time of opening. II. The representatives of the bidders should be advised to carry the identity card or a letter of authority from the tendering firms to identify their bonafides for attending the opening of the proposal.



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
3.	Form B: Bill of Material (Infrastructure at SDC),Page 80,RFP Vol 1	<p>Description of Item:</p> <p>8. SATA (1 TB) HDD for existing SAN IBM DS 5100</p> <p>9. DAE (Disk Attached Enclosure) with power cord for existing SAN IBM DS 5100</p> <p>10. 24 port SAN switch compatible with existing CISCO MDS 9134 along with OFC Patch cord.</p> <p>11. Additional Tape Drives - LTO4 (800 GB compressed, 1.6 TB raw)</p>	<p>Description of Item:</p> <p>8. SATA (2 TB) HDD for existing SAN IBM DS 5100 <b>(OPTIONAL)*</b> - Quantity: 8</p> <p>9. Additional Tapes - LTO4 (800 GB compressed, 1.6 TB raw) <b>(OPTIONAL)*</b> - Quantity: 10</p> <p>10. 8 port SFP module compatible with existing SAN switch (CISCO MDS 9134) <b>(OPTIONAL)*</b> - Quantity: 2</p> <p><b>(OPTIONAL)*</b> - Bidders are suggested to quote for these items and provide the details in Form 2A: Details of Financial Bid. However, the same <b>shall not</b> be added to the overall financial proposal Form 2, S. No. g, Deployment of requisite infrastructure for Data Center(G)</p> <p><b>Note: 1.</b> MITS encourages bidders to leverage the existing IT infrastructure at SDC wherever possible and quote accordingly.</p> <p><b>Note: 2.</b> The items DAE (Disk Attached Enclosure) with power cord for existing SAN IBM DS 5100 and 24 port SAN switch compatible with existing CISCO MDS 9134 along with OFC Patch cord have been removed from the BoM.</p> <p><b>Note: 3. Bidders should note that there is 1 SFP slot for 8 ports available each on the primary and secondary SAN switch (CISCO MDS 9134) and the solution provided should be in line with this. No new SAN switch will be purchased.</b></p>



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
4.	Form A: Bill of Material (Software), Page 79, RFP Vol 1	<p>Item:</p> <p>1. Port License for existing SAN Switch Model CISCO MDS 9134</p> <p>7. HIPS license for the servers planned to be deployed (IBM ISS)</p>	<p>Item:</p> <p>1. Port License for existing SAN Switch Model CISCO MDS 9134 <b>(OPTIONAL)*</b> - Quantity - Bidder to suggest</p> <p>7. HIPS license for the servers planned to be deployed (IBM ISS) <b>(OPTIONAL)*</b> - Quantity - Bidder to suggest</p> <p><b>(OPTIONAL)*</b> - Bidders are suggested to quote for these items and provide the details in Form 2A: Details of Financial Bid. However, the same <b>shall not</b> be added to the overall financial proposal Form 2, S. No. g, Deployment of requisite infrastructure for Data Center (G)</p> <p><b>Note:</b> MITS encourages bidders to leverage the existing IT infrastructure at SDC wherever possible and quote accordingly.</p>



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
5.	Form A: Bill of Material (Software), Page 79, RFP Vol 1	<p>Item:</p> <p>8. Additional license for real time and passive back up management for existing backup server at SDC (Tivoli Storage Manager)</p> <p>9. Additional license for EMS for the existing Tivoli EMS software at SDC (Module wise license to be procured)</p>	<p>Item:</p> <p>8. Additional license for real time and passive back up management for existing backup server at SDC (Tivoli Storage Manager) <b>AND</b></p> <p>9. Additional license for EMS for the existing Tivoli EMS software at SDC (Module wise license to be procured)</p> <p><b>OR</b></p> <p><b>New Item</b> (<i>applicable only if new EMS and NMS is proposed by the bidder instead of providing additional licenses for Tivoli</i>):</p> <p>8. &amp; 9. License for new EMS and NMS solution for monitoring of e-District infrastructure/application at SDC, taking necessary real time and passive backup, service desk management etc; Number of Licenses - Bidder to suggest the no of units required</p> <p>Bidders are required to propose the number of license required and include the same in the financial proposal (both Form 2 and Form 2A). It may be noted that the number of licenses proposed by the bidder should be adequate for continuous monitoring the e-District infrastructure/application at SDC.</p>



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
6.	Form B: Bill of Material (Infrastructure at SDC), Page 80, RFP Vol 1		<p><b>New Item</b> (<i>applicable only if new EMS and NMS is proposed by the bidder instead of providing additional licenses for Tivoli</i>):</p> <p>12. Server for EMS and NMS for SDC, Quantity - Bidder to suggest quantity along with detailed specifications of servers.</p> <p>Bidders are required to propose the number of servers required and include the same in the financial proposal (both Form 2 and Form 2A). It may be noted that the number of servers proposed by the bidder should be adequate for continuous monitoring the e-District infrastructure/application at SDC.</p>
7.	8.4.1 Overview of Post Implementation Services, page 38, RFP Vol 1		<p><b>New Point added:</b></p> <p>K. The selected bidder will be responsible for management of EMS and NMS solution to be deployed at SDC (<i>this is applicable in case new EMS and NMS solution is proposed by the bidder instead of providing additional licenses for Tivoli</i>)</p>
8.	Corrigendum 2- eDistrict Meghalaya RFP, Sl. No. 13	Intel or AMD; 64 bit Dual Core Processor; min 3 GHz	Intel or AMD; 64 bit Dual Core Processor; min 3 GHz and min 1 MB cache



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
9.	ANNEXURE VI – List of Services, Page 117,RFP Vol 1	List of Services approved by Apex Committee for State wide rollout of e-District MMP in Meghalaya are as follows. The State may add more services at later stages and the selected SI will need to work on and support rollout of those services as well.	List of Services approved by Apex Committee for State wide rollout of e-District MMP in Meghalaya are as follows. The State may add more services at later stages and the selected SI will need to work on and support rollout of those services as well. The final list of services will be approved by the latest Apex Committee meeting.
10.	Form C: Bill of Material (Infrastructure at Field Offices),Pg 88,Sl. No. 23,RFP Vol 1		Amended Form C: Bill of Material (Infrastructure at Field Offices) is attached in Annexure A of this Corrigendum IV. <b>New Point added</b> Sl. No. 23: Description of Item: LCD Projector Quantity:1 (Refer Annexure A of this Corrigendum IV for Minimum Specifications & Compliance Sheet)
11.	Form C: Bill of Material (Infrastructure at Field Offices),Pg 87,Sl. No.3,RFP Vol 1	Description of Item: Laptop Quantity:15	Description of Item: Laptop Quantity: <b>35</b>
12.	Form C: Bill of Material (Infrastructure at Field Offices), Pg 109,RFP Vol 1		<b>New item added</b> Pt. No. U: Description of Item: 4 Port Router (Refer to Annexure A in this Corrigendum IV for Minimum Specifications & Compliance Sheet)
13.	Form C: Bill of Material (Infrastructure at Field Offices), Pt. No. V,RFP Vol 1		<b>New item added</b> Pt. No. V: Description of Item:12 Port Managed L2 Switch (Refer to Annexure A in this Corrigendum IV for Minimum Specifications & Compliance Sheet)



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
14.	Form B: Bill of Material (Infrastructure at SDC),Pg 80, RFP Vol 1		Amended Form B: Bill of Material (Infrastructure at SDC) is attached in Annexure A of this Corrigendum IV. <b>New Item added as</b> Sl. No. 12: Description of Item: LDAP & CAS Server. Quantity:2 (Refer Annexure A of this Corrigendum IV for Minimum Specifications & Compliance Sheet)
15.	Section 6.1:Pre-qualification Criteria, Sl. No. 6, Pg. No 13, RFP Vol 1	Average Annual Sales Turnover generated from services related to System Integration (SI) for “Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc” during the last three (3) financial years (FY 12-13, FY 11-12, and FY 10-11) as per the last published balance sheets - Rs. 200 Crores or more	Average Annual Sales Turnover generated from services related to System Integration (SI) for “Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc” during the last three (3) financial years (FY 13-14, FY 12-13, and FY 11-12) as per the last published balance sheets - Rs. 200 Crores or more





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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
16.	Section 6.1:Pre-qualification Criteria, Sl. No. 7, Pg. No 13, RFP Vol 1	<p>Company experience in implementation of integrated turnkey projects around System Integrator for Computing Infrastructure in India. (Specifically each project should have components of Hardware, Networking, Helpdesk, Management &amp; Maintenance etc necessarily for this project).</p> <p>Number of such Assignments of value (as specified for tiers) which have gone live in the past 5 years (FY 12-13, FY 11-12, FY 10-11, FY 09-10, and FY 08-09): Two minimum 10 Crores Project OR Four 5 to 10 Crores Projects OR Six 4 to 5 Crores Project Out of the above minimum 1 project should be in Government sector.</p>	<p>Company experience in implementation of integrated turnkey projects around System Integrator for Computing Infrastructure in India. (Specifically each project should have components of Hardware, Networking, Helpdesk, Management &amp; Maintenance etc necessarily for this project).</p> <p>Number of such Assignments of value (as specified for tiers) which have gone live in the past 5 years (FY 13-14, FY 12-13, FY 11-12, FY 10-11, and FY 09-10): Two minimum 10 Crores Project OR Four 5 to 10 Crores Projects OR Six 4 to 5 Crores Project Out of the above minimum 1 project should be in Government sector.</p>
17.	Section 6.1:Pre-qualification Criteria, Sl. No. 3, Pg. No 13, RFP Vol 1	The Firm / Company should be in the business as System Integrator for "Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc" at least 5 financial years as of 31st March 2013	The Firm / Company should be in the business as System Integrator for "Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc" at least 5 financial years as of 31st March 2014



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
18.	Section 6.1:Pre-qualification Criteria, Sl. No. 8, Pg. No 14, RFP Vol 1	The responding firm must have a minimum number of 200 IT Staff of technically qualified personnel having minimum qualification of B.E./B.Tech/MCA in the domain of systems integration, as on 30th September, 2013 on its roll.	The responding firm must have a minimum number of 200 IT Staff of technically qualified personnel having minimum qualification of B.E./B.Tech/MCA in the domain of systems integration, as on 30th June, 2014 on its roll.
19.	Section 6.2: Technical Qualification Criteria, Note: Pt. No. 1, Pg. No 16, RFP Vol 1	For point a and b, the Completion Certificate of the projects completed in the last 3 years (as on 31st July 2013) need to be provided (issued to the responding firm by the respective customers). For point c, Work Order/Agreement copy dated within the last 5 years for projects completed/ongoing in North East need to be provided.	For point a and b, the Completion Certificate of the projects completed in the last 3 years (as on 31st July 2014) need to be provided (issued to the responding firm by the respective customers). For point c, Work Order/Agreement copy dated within the last 5 years for projects completed/ongoing in North East need to be provided.
20.	Form 4A: Compliance Sheet for Pre-Qualification Proposal, Sl. No. 3, Pg. No 49, RFP Vol 1	The Firm / Company should be in the business as System Integrator for "Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc" at least 5 financial years as of 31st March 2013	The Firm / Company should be in the business as System Integrator for "Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc" at least 5 financial years as of 31st March 2014
21.	Form 4A: Compliance Sheet for Pre-Qualification Proposal, Sl. No. 8, Pg. No 50, RFP Vol 1	The responding firm must have a minimum number of 200 IT Staff of technically qualified personnel having minimum qualification of B.E./B.Tech/MCA in the domain of systems integration, as on 30th September, 2013 on its roll.	The responding firm must have a minimum number of 200 IT Staff of technically qualified personnel having minimum qualification of B.E./B.Tech/MCA in the domain of systems integration, as on 30th June, 2014 on its roll.



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
22.	Form 4A: Compliance Sheet for Pre-Qualification Proposal, Sl. No. 6, Pg. No 49, RFP Vol 1	Average Annual Sales Turnover generated from services related to System Integration (SI) for “Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc” during the last three (3) financial years (FY 12-13, FY 11-12, and FY 10-11) as per the last published balance sheets - Rs. 200 Crores or more	Average Annual Sales Turnover generated from services related to System Integration (SI) for “Supply, Installation, Commissioning, Management and Maintenance of Computing Infrastructure, Data Entry, Site Preparation etc” during the last three (3) financial years (FY 13-14, FY 12-13, and FY 11-12) as per the last published balance sheets - Rs. 200 Crores or more
23.	Form 4A: Compliance Sheet for Pre-Qualification Proposal, Sl. No. 7, Pg. No 50, RFP Vol 1	<p>Company experience in implementation of integrated turnkey projects around System Integrator for Computing Infrastructure in India. (Specifically each project should have components of Hardware, Networking, Helpdesk, Management &amp; Maintenance etc necessarily for this project).</p> <p>Number of such Assignments of value (as specified for tiers) which have gone live in the past 5 years (FY 12-13, FY 11-12, FY 10-11, FY 09-10, and FY 08-09):            Two minimum 10 Crores Project            OR            Four 5 to 10 Crores Projects            OR            Six 4 to 5 Crores Project            Out of the above minimum 1 project should be in Government sector.</p>	<p>Company experience in implementation of integrated turnkey projects around System Integrator for Computing Infrastructure in India. (Specifically each project should have components of Hardware, Networking, Helpdesk, Management &amp; Maintenance etc necessarily for this project).</p> <p>Number of such Assignments of value (as specified for tiers) which have gone live in the past 5 years (FY 13-14, FY 12-13, FY 11-12, FY 10-11, and FY 09-10):            Two minimum 10 Crores Project            OR            Four 5 to 10 Crores Projects            OR            Six 4 to 5 Crores Project            Out of the above minimum 1 project should be in Government sector.</p>



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Sl. No.	RFP Document Reference(s) (Section & Page Number(s))	Original Clause	Modified Clause
24.	Pg. No 87, RFP Vol 1, 3 <sup>rd</sup> Bullet "All Servers should have the following mandatory features for better reliability, availability and performance:"	OEMs must be one of the top 5 server vendor worldwide as on 1st Quarter 2013 as per Gartner report (bidder should provide supporting evidence)	OEMs must be one of the top 5 server vendor worldwide as on 1st Quarter 2014 as per Gartner report (bidder should provide supporting evidence)
25.	Pg. No 88, RFP Vol 1, Important Note for bidders: Pt. No. (xiii)	OEMs for Desktops/PC must be one of the top 5 Desktop/PC vendor worldwide as on 2nd Quarter 2013 as per Gartner report (bidder should provide supporting evidence)	OEMs for Desktops/PC must be one of the top 5 Desktop/PC vendor worldwide as on 2nd Quarter 2014 as per Gartner report (bidder should provide supporting evidence)



## **ANNEXURE VI – Required Deliverables and Associated Timelines Stands Amended As**

### **ANNEXURE VI – Required Deliverables and Associated Timelines**

Detailed deliverables will be as per the Scope of work detailed out in Section 8. The timelines have been calculated from time T, the date of signing of contract by the SI.

S. No.	Project Activity	Completion Timeline in months (from signing of contract)
1	Project initiation & Solution Design, Submission of Final Hardware Requirement Report	T + 2
2	Procurement, deployment and commissioning of the necessary Hardware and Software at SDC (in appropriate quantity and as per the specified technical specifications)	T + 6
3	Procurement, deployment and commissioning of the necessary Hardware at e-District locations (in appropriate quantity and as per the specified technical specifications)	T + 12 (In pilot district by T + 6)
4	Procurement, deployment and commissioning of the necessary Networking equipments and Connectivity as per the requirements to support functioning of at e-District locations	T + 12 (In pilot district by T + 6)
5	Data Entry and digitization of the records available in the paper files and migration of the data available in the existing databases, Verification of digitized and migrated data	T + 12 (In pilot district by T + 5)
6	Change Management	T + 12 (In pilot district Change Management will start based on mutual decision of SDA, ADA and SI.)



S. No.	Project Activity	Completion Timeline in months (from signing of contract)
7	Operations and Maintenance	<i>For a period of 3 years from successful Go-Live at respective district</i>



## Annexure A

### 4 Port Router

***Bidders are requested to quote/unit (per unit rate) for the following items and provide the details in Form 2A: Details of Financial Bid. However, the prices of these items will not be taken into consideration for arriving at the total financial-bid value.***

S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
1	Make	Must be specified		NA	
2	Model	Must be specified		NA	
3	Architecture	a) Should be a single box configuration for ease of management b) Should have minimum of 128MB of RAM and 32 MB of Flash Memory			
4	Interface	a) 2 x 100/1000 Base interface. b) At least 2 serial additional slots			
5	Performance	a) Should support high performance traffic forwarding with concurrent features like Security, Voice enabled b) Should support variety of interfaces like V.35 Sync Serial (2 Mbps), E1, ADSL for remote office aggregation			
6	Protocols	a) Should support Routing protocols like RIP ver1 (RFC1058)& 2, (RFC 1722 and 1723), OSPF ver2 (RFC2328), Telnet (RFC854),SSH ver2. b) Should have full IPv6 features. c) Should have RIP and OSPFv3 for IPv6 and MD5 route authentication.			



S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
7	Security Features	a) Support for GRE Tunneling, NAT b) Support for MD-5 / SHA-1/SHA-2 route authentication for RIP, OSPF c) Shall support multi-level of access d) Support for SNMPv3 authentication, SSHv2 e) AAA support using Radius and/or TACACS+ f) Support for PAP and CHAP authentication for P-to-P links g) Multiple privilege level authentications for console and telnet access through Local database or through an external AAA Server. h) ACLs for controlled forwarding i) IEEE 802.1x support for MAC address authentication			
8	Management	a) Shall have support for Web based management, CLI, Telnet and SNMPv3 b) Shall support Secure Shell ver 2 for secure connectivity. c) Shall support Out of band management through Console and external modem for remote management			
9	Certification	Common Criteria Certified			
10	Power	AC 200 – 240V			





## **12 Port Managed L2 Switch**

***Bidders are requested to quote/unit (per unit rate) for the following items and provide the details in Form 2A: Details of Financial Bid. However, the prices of these items will not be taken into consideration for arriving at the total financial-bid value.***

S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
1	Make	Must be specified		NA	
2	Model	All the relevant product brochures and manuals must be submitted.		NA	
3	Standards	1. IEEE 802.1D 2. IEEE 802.1p 3. IEEE 802.1Q 4. IEEE 802.1s 5. IEEE 802.1w 6. IEEE 802.1x 7. IEEE 802.1ab 8. IEEE 802.3 9. IEEE 802.3u 10. IEEE 802.3ab 11. IEEE 802.3z 12. RFC 854 13. RFC 951 14. RFC 1305 / RFC2030 or Higher/equivalent			
4	Protocol	CSMA/CD			
5	Throughput	Min 8 Gbps			
6	Data Transfer Rates	Non-Blocking Architecture			



S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
7	Network Cables	10BASE-T: UTP Cat. 5,6 (100 m) EIA/TIA-586 100-ohm STP (100 m)  100BASE-TX: UTP Cat. 5,6 (100 m) EIA/TIA-568 100-ohm STP (100m max.)			
8	Number of Ports	100/1000 Mbps port x 12			
9	Twisted-pair Rx  Reverse Polarity	Auto-correction for each port			
10	MAC Address Learning	Automatic update			
11	RAM	128 MB			
12	Power Supply	100 - 240 VAC, 50/60 Hz			
13	Security	Should support  a) 802.1x b) AAA c) SSH v1, v2 d) SSL e) Host to Host and Switch to Switch authentication or Higher/Equivalent			
14	Management	Should have  a. IPv6 management capability  b. SNMP v1, v2, v3  c. RMON  d. RADIUS  e. CLI via console  f. Web interface  g. Provision of software and firmware upgrades with latest version releases through admin login			



S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
15	Uplink Ports	Switch should have 2 dual-purpose uplink ports (100/1000 or SFP)			

## LCD Projector

***Bidders are requested to quote/unit (per unit rate) for the following items and provide the details in Form 2A: Details of Financial Bid. However, the prices of these items will not be taken into consideration for arriving at the total financial-bid value.***

S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
1.	Make	Must be specified		NA	
2.	Model	All the relevant product brochures and manuals must be submitted.		NA	
3.	General Aspect Ratio	4:3 (Native) 16:9 compatible			
4.	Brightness (ANSI Lumens)	3200 ANSI Lumens or above			
5.	Contrast Ratio	1500 : 1			
6.	Display Type	0.63'' Poly silicon TFT LCD x 3 or higher			
7.	Resolution (Native)	xGA (1024 x 768)			
8.	Video Compatibility	NTSC, PAL, SECAM			
9.	Number of colors	16.77 Million Colors			



S. No.	Feature	Minimum Specification	Specifications offered	Compliance (Yes / No)	Deviations, if any
10.	Connectivity Inputs	Minimum of 1 RGB D- Sub 15 pin (VGA) or 1 Composite or 1 s-video  1 HDMI for video/display  2 RCA Audio or 1 stereo Mini Jack for audio output  Wireless Network Option, IEEE 802.11 b/g/n ready for LAN/ internet connectivity			
11.	Outputs	1 x RGB D-Sub 15 pin/ 1 x Stereo Mini Jack.			
12.	Control	1 x RS-232C/ 1 x RJ-45 LAN			
13.	Operation Power	220V - 240V, 50 Hz			
14.	Power Consumption Operational	Upto 320W			
15.	Power Consumption Operational (standby)	Upto 1W			
16.	Optical Zoom	1.2:1			
17.	Screen Specification	Screen: 12 feet x 9 feet (With stand on both sides).			
18.	Other Features	Desirable: Wireless Presentation from M-Tabs (Android Tablet).			
19.	Warranty	Minimum onsite comprehensive warranty for 2 years. Bulb warranty for 1 year.			
20.	Accessories	1 VGA Cable, and 1 HDMI cable (with converter from micro HDMI to standard HDMI). Other standard accessories.			



## **Specifications for LDAP & CAS Servers**

***Bidders are requested to quote/unit (per unit rate) for the following items and provide the details in Form 2A: Details of Financial Bid. However, the prices of these items will not be taken into consideration for arriving at the total financial-bid value.***

<b>Sl. No.</b>	<b>Minimum Specifications</b>	<b>Specifications offered</b>	<b>Compliance (Yes / No)</b>	<b>Deviations, if any</b>
<b>1</b>	8x Quad core processor with 2 GHz or above with min 2MB L2 cache per processor			
<b>2</b>	64bit OS support: Red Hat® Enterprise Linux Server Release 6.2 (Santiago)/Unix/Windows Server 2008 with 1 license			
<b>3</b>	Memory (RAM): Min. 32 GB should be latest series/generation for the server model being quoted			
<b>4</b>	RAID controller with RAID 1/3/5 with 256 MB cache			
<b>5</b>	HDD: 200 GB 2.5" 10 K RPM HDD			
<b>6</b>	Disk bays: Support for min 4 small form factor hot plug SAS / SCSI hard drives in disk drive carriers that slides out from front			
<b>7</b>	At least 4 x 100/1000 Mbps Ethernet ports or more (if Rack)			
<b>8</b>	2 x 4 Gbps Fiber Channel Ports (if Rack)			
<b>9</b>	Min 2 USB ports (Ver 2.0/3.0), preferably 1 front USB port			
<b>10</b>	Graphics controller: SVGA / PCI bus / ATI® ES 1000 / min 16MB SDRAM std/max / 1280x1024 at 16M colors			
<b>11</b>	Optical / diskette: 8X / 24X slim-line SATA DVD ROM drive (if Rack)			



Sl. No.	Minimum Specifications	Specifications offered	Compliance (Yes / No)	Deviations, if any
12	Security: Power-on password / admin password / unattended boot / selectable boot / boot without keyboard			
13	It should provide Secure Sockets Layer (SSL) min. 256 bit encryption and Secure Shell (SSH) Version 2 and support VPN for secure access over internet			
14	Server must support virtualization			
15	Must be equipped with management ports with necessary software for fulfillment of manageability and virtual media			
16	Power: Minimum Dual Redundant Power Supply Hot Pluggable with cooling fans			

### **Form B: Bill of Material (Infrastructure at SDC) stands amended as follows**

#### **Form B: Bill of Material (Infrastructure at SDC)**

#	Description of Item	Quantity
1.	Web Servers	2
2.	Application Servers (with high availability clustering)	2
3.	Database Servers (with high availability clustering)	2
4.	Staging / Patch Management / Testing Servers (Web Server & Application Server + Database Server)	2
5.	Demonstration Server (Web Server, Application Server and Database Server)	1
6.	Anti-Virus Server	1
7.	Server Rack (36U) (Maximum 2 racks for total solution, along with adequate power strips)	Bidder to suggest quantity
8.	SATA (2 TB) HDD for existing SAN IBM DS 5100 (Optional)*	8



9.	Additional Tapes - LTO4 (800 GB compressed, 1.6 TB raw) (OPTIONAL)*	10
10.	8 port SFP module compatible with existing SAN switch (CISCO MDS 9134) (OPTIONAL)*	2
11.	LDAP & CAS Server	2
12.	Server for EMS and NMS for SDC	Bidder to suggest quantity (this item is applicable only if new EMS and NMS is proposed by the bidder instead of providing additional licenses for Tivoli)

**Form C: Bill of Material (Infrastructure at Field Offices) stands amended as follows:**

**Form C: Bill of Material (Infrastructure at Field Offices)**

Sl. No	Description of Item	Quantity
1.	Desktop / PC	800
2.	Laptop	35
3.	Digital Web camera	150
4.	Scanners	150
5.	Multi-Functional Devices (Network Printer cum Scanner cum Fax)	100
6.	Laser Printer (Color)	150
7.	Laser Printer (Black/White)	200
8.	9 U Rack (along with power cable etc.)	50
9.	24 Port Managed Switch (L3)	40
10.	Leased Line Modem Pair (In Pair of G703 and V35)	10



11.	Router	10
12.	USB Token for digital signature	10
13.	Cat6 cable (Box of 305 mts)	100
14.	I/O Box (Single)	400
15.	I/O Box (Double)	400
16.	24 Port Single I/O Patch Panel and Jack Panel	70
17.	Patch Cord (1 mtr, 2 mtr & 3 mtr)	1 mtr -500, 2 mtr- 200, 3 mtr -150
18.	OFC Media Converter	20
19.	24 Port L2 Managed Switch	30
20.	True Online UPS (5 KVA) along with trolley and battery bank	50
21.	UPS (1 KVA) along with trolley	650
22.	OFC	200 m
23.	LCD Projector	1