

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Following addition/ deletion/ modification (s) have been made to the Request for Proposal (RFP) for State Data Centre (SDC) Project in Punjab Published in Newspapers on 14.05.2013.

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
1)	RFP Volume I, Clause 4.1 Design of Data Center / Pg 2:		Addition	<b>Floor loading capacity of 1st floor of SDC Mohali Building is 840Kg/Per Sqmtr.</b>						
2)	RFP Volume I, Clause 1.4 Terms of Reference / Pg 8:	<table border="1" style="width: 100%;"> <tr> <td style="width: 80%;">The EMD shall be in Indian Rupees and bidder has to pay through online mode only using the etender.punjabgovt.gov.in website's payment gateway.</td> <td style="width: 20%; text-align: center;">40 Lacs</td> </tr> </table>	The EMD shall be in Indian Rupees and bidder has to pay through online mode only using the etender.punjabgovt.gov.in website's payment gateway.	40 Lacs	Modification	<p><b>The phrase to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 70%;">The EMD shall be in Indian Rupees. The bidder (prime) shall furnish EMD in the form of Bank Guarantee from scheduled bank as per the format given at Annexure 'A' To Corrigendum.</td> <td style="width: 30%; text-align: center;">40 Lacs</td> </tr> </table> <p><b>Rest of clause 1.4 remains same.</b></p>	The EMD shall be in Indian Rupees. The bidder (prime) shall furnish EMD in the form of Bank Guarantee from scheduled bank as per the format given at Annexure 'A' To Corrigendum.	40 Lacs		
The EMD shall be in Indian Rupees and bidder has to pay through online mode only using the etender.punjabgovt.gov.in website's payment gateway.	40 Lacs									
The EMD shall be in Indian Rupees. The bidder (prime) shall furnish EMD in the form of Bank Guarantee from scheduled bank as per the format given at Annexure 'A' To Corrigendum.	40 Lacs									
3)	RFP Volume I, Clause 2 Section II Eligibility Criteria, Point no 10/ Pg 13:	<table border="1" style="width: 100%;"> <tr> <td style="width: 10%; text-align: center;">10.</td> <td style="width: 40%;">The bidder (prime) shall furnish, as part of its bid, an earnest</td> <td style="width: 50%;">The EMD shall be in India Rupees and bidder has to pay through online mode only using the</td> </tr> </table>	10.	The bidder (prime) shall furnish, as part of its bid, an earnest	The EMD shall be in India Rupees and bidder has to pay through online mode only using the	Modification	<p><b>The point no 10 to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 10%; text-align: center;">10.</td> <td style="width: 40%;">The bidder (prime) shall furnish, as part</td> <td style="width: 50%;">The EMD shall be in Indian Rupees. The</td> </tr> </table>	10.	The bidder (prime) shall furnish, as part	The EMD shall be in Indian Rupees. The
10.	The bidder (prime) shall furnish, as part of its bid, an earnest	The EMD shall be in India Rupees and bidder has to pay through online mode only using the								
10.	The bidder (prime) shall furnish, as part	The EMD shall be in Indian Rupees. The								

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP		Change Category (Addition/ Deletion/ Modification)	Addition/ Modification			
		Money Deposit (EMD) of Rs. 40 Lacs.	etender.punjabgovt.gov.in website's payment gateway			<p><b>of its bid, an earnest Money Deposit (EMD) of Rs. 40 Lacs.</b></p>	<p><b>bidder (prime) shall furnish EMD in the form of Bank Guarantee from scheduled bank as per the prescribed format.</b></p> <p><b>Bidder shall submit the SCAN copy of the EMD Bank guarantee online at the time of bid submission.</b></p> <p><b>The original paper copy of the EMD bank guarantee shall be submitted to PSeGS within two days of the bid submission failing which bid shall be rejected.</b></p>	

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
4)	RFP Volume I, Clause 6.7.1 Pre-Qualification Eligibility Criteria, Point no II/ Pg 100:	II. The EMD shall be in Indian Rupees and bidder has to pay through online mode only using the etender.punjabgovt.gov.in website's payment gateway.	Modification	<p><b>The point no II to be read as:</b></p> <p><b>II. The EMD shall be in Indian Rupees. The bidder (prime) shall furnish EMD in the form of Bank Guarantee from scheduled bank as per the format given at Annexure 'A' To Corrigendum. Bidder shall submit the SCAN copy of the EMD Bank guarantee online at the time of bid submission. The original paper copy of the EMD bank guarantee shall be submitted to PSeGS within two days of the bid submission.</b></p>
5)	RFP Volume I, Section 8, Section VIII - Formats to Response to the Tender - Technical Bid, Point no II/ Pg 195:	We have deposited the EMD in INR through online mode i.e. www.etender.punjabgovt.gov.in through payment gateway as given in the RFP	Modification	<p><b>The format to be read as:</b></p> <p><b>Refer Annexure 'C' To Corrigendum</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
6)	RFP Volume I, Section 8.5 , Format 5 - Technical Bid Letter / Pg 200:	8.5 Format 5 - Technical Bid Letter	Modification	<b>The format to be read as: Refer Annexure 'B' To Corrigendum</b>
7)	RFP Volume I, Section 10 , Section X - Format for Response to Tender - Commercial Bid / Pg 228:	10 Section X - Format for Response to Tender - Commercial Bid 10.1 Format 20 – Commercial Bid letter	Modification	<b>The format to be read as: Refer Annexure 'D' To Corrigendum</b>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
8)	RFP Volume I, Clause 8.2., Format 2 – Certificate Regarding Number of Technical Qualified professionals on Company Rolls / Pg 197	8.2. Format 2 – Certificate Regarding Number of Technical Qualified professionals on Company Rolls	Modification	<b>The format to be read as: Refer Annexure 'E' To Corrigendum</b>
9)	RFP Volume I, Clause 8.10, Format 10, 11, 14 –Specifications of the Physical components, specifications of IT components, Authorization Certificate / Pg 207, 208	8.10 Format 10 - Specifications of the Physical components 8.11 Format 11 - Specifications of IT components 8.12 Format 12 - Manpower Details	Modification	<b>The formats to be read as: Refer Annexure 'F' To Corrigendum.</b>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
10	RFP Volume I, Section 10.2.1.3, Section A3:Cloud EMS (A3)/ Pg 232	10.2.1.3 Section A3: Cloud EMS (A3)	Modification	<b>Please refer Annexure 'G' To Corrigendum</b>
11	RFP Volume I, Section 10.2.1, Section B1 – O&M Services Cost/ Pg 245	10.2.1. Section B1 - O&M Services Cost	Modification	<b>Please refer Annexure 'H' To Corrigendum</b>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
12	RFP Volume I, Section 11, XI Annexure II – Pre Qualification CheckList /Pg 255	<table border="1" style="width: 100%;"> <tr> <td style="width: 5%;">16.</td> <td style="width: 45%;">The bidder (prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs 40 lacs</td> <td style="width: 50%;">Payment Mode: Online Online transaction Ref. number.</td> </tr> </table>	16.	The bidder (prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs 40 lacs	Payment Mode: Online Online transaction Ref. number.	Modification	<p><b>The point no 16 to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 5%;">16.</td> <td style="width: 45%;"><b>The bidder (prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs 40 lacs as bank Gurantee</b></td> <td style="width: 50%;"><b>Payment Mode: Bank Gurantee</b></td> </tr> </table>	16.	<b>The bidder (prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs 40 lacs as bank Gurantee</b>	<b>Payment Mode: Bank Gurantee</b>
16.	The bidder (prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs 40 lacs	Payment Mode: Online Online transaction Ref. number.								
16.	<b>The bidder (prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs 40 lacs as bank Gurantee</b>	<b>Payment Mode: Bank Gurantee</b>								
13	RFP Volume I, Clause 6.21 Signing of Contract, Point no II/ Pg 139:	<p>6.21 Signing of Contract</p> <p>I. At the same time as Punjab State EGovernance Society, Punjab. notifies the successful Bidder that its bid has been accepted, the Punjab State EGovernance Society, Punjab will send the Bidder the Performa for Contract provided in the Tender Document, incorporating all agreements between the parties.</p> <p>II. Within <b>7</b> days of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to the Punjab State EGovernance Society, Punjab.</p>	Modification	<p><b>The clause to be read as:</b></p> <p>6.21 Signing of Contract</p> <p>I. At the same time as Punjab State EGovernance Society, Punjab. notifies the successful Bidder that its bid has been accepted, the Punjab State EGovernance Society, Punjab will send the Bidder the Performa for Contract provided in the Tender Document, incorporating all agreements between the parties.</p> <p>II. Within <b>21</b> working days of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to the Punjab State EGovernance Society, Punjab.</p>						

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
14	RFP Volume I, Clause 4.2 Operations and Maintenance / Pg 34,35	<p>4.2 Operations and Maintenance The selected bidder will provide 24x7x365 operating and maintaining services for a period of 5 years from the date of final acceptance test. The scope of the services for overall Physical and IT infrastructure management as per ITIL framework during this period shall include 24x7X365 Monitoring, Maintenance and Management of the entire Data Center, along with providing Helpdesk services. The scope of work during the operations phase is divided into following areas which are listed below:</p> <ul style="list-style-type: none"> <li>• System Administration, Maintenance and Management Services</li> <li>• Network Management Services</li> <li>• Backend Services</li> <li>• Server and Storage Administration and Management Services</li> <li>• Security Administration and Management Services</li> <li>• Physical security services</li> <li>• Backup &amp; Restore Services</li> <li>• Physical Infrastructure Management and Maintenance Services</li> <li>• Helpdesk Services</li> <li>• Database Management</li> <li>• Preventive Maintenance Services</li> <li>• Corrective Maintenance Services</li> </ul>	Modification	<p><b>The Clause to be read as:</b></p> <p>4.2 Operations and Maintenance The selected bidder will provide 24x7x365 operating and maintaining services for a period of 5 years from the date of final acceptance test. The scope of the services for overall Physical and IT infrastructure management as per ITIL framework during this period shall include 24x7X365 Monitoring, Maintenance and Management of the entire Data Center, along with providing Helpdesk services. The scope of work during the operations phase is divided into following areas which are listed below:</p> <ul style="list-style-type: none"> <li>• System Administration, Maintenance and Management Services</li> <li>• Network Management Services</li> <li>• Backend Services</li> <li>• Server and Storage Administration and Management Services</li> <li>• Security Administration and Management Services</li> <li>• Physical security services</li> <li>• Backup &amp; Restore Services</li> <li>• Physical Infrastructure Management and Maintenance Services</li> <li>• Helpdesk Services</li> <li>• Database Management</li> <li>• Preventive Maintenance Services</li> <li>• Corrective Maintenance Services</li> <li>• Asset Management Services</li> <li>• Configuration/ Reconfiguration Management Services</li> <li>• Vendor Management Services</li> </ul>



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<ul style="list-style-type: none"> <li>• Asset Management Services</li> <li>• Configuration/ Reconfiguration Management Services</li> <li>• Vendor Management Services</li> <li>• Virus Management</li> <li>• Electricity &amp; Diesel (POL) management</li> <li>• Certifications</li> <li>• Patch Release Update management (patch update for all software components possible and has to give a report every fortnight to the SIA )</li> </ul> <p>The scope of work is limited to equipment/ components procured as part of this RFP by DCO for running of SDC. Later if any additional hardware or software is required for hosting of applications in SDC. All the additional hardware and software required i.e. Storage, Licenses etc would be procured from the State funds by the State/ SIA &amp; would be maintained by the DCO.</p> <p>However:-</p> <ol style="list-style-type: none"> <li>1. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not</b></li> </ol>		<ul style="list-style-type: none"> <li>• Virus Management</li> <li>• Electricity &amp; Diesel (POL) management</li> <li>• Certifications</li> <li>• Patch Release Update management (patch update for all software components possible and has to give a report every fortnight to the SIA )</li> </ul> <p>The scope of work is limited to equipment/ components procured as part of this RFP by DCO for running of SDC. Later if any additional hardware or software is required for hosting of applications in SDC. All the additional hardware and software required i.e. Storage, Licenses etc would be procured from the State funds by the State/ SIA &amp; would be maintained by the DCO.</p> <p>However:-</p> <ol style="list-style-type: none"> <li>1. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by the State with valid warranty and is hosted in the State Data Centre, O&amp;M charges for that infrastructure shall be paid @1.0 % per Qtr of respective Hardware and Software CAPEX cost. The activities under the O&amp;M of such Infrastructure shall include:</b> <ol style="list-style-type: none"> <li>a. <b>Liasoning, coordination, follow-up, escalation with Hardware vendor/User Department in event of hardware fault/replacement/any other maintenance activity etc and ensuring the activity completion.</b></li> <li>b. <b>Installation, configuration and maintenance of software's (not limited to system software's) except application software (provided by the application).</b></li> </ol> </li> </ol>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO.</p> <p>2. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO.</p>		<p>c. Maintaining applicable SLAs for servers, storage, security equipment's (Firewall, switch etc) as per IT Infrastructure related service levels (Table 5.7.2 of the RFP volume I). All other SLA's relating to Data center services shall remain same.</p> <p>d. Manpower support as per skill set required to operate and maintain the Infrastructure.</p> <p>2. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State which may not be under warranty and is hosted in the State Data Centre, O&amp;M charges for that infrastructure shall be paid @3.0 % per Qtr of respective Hardware and Software CAPEX cost. The activities under the O&amp;M of such Infrastructure shall include:</p> <ol style="list-style-type: none"> <li>a. Complete maintenance and upkeep of Hardware in event of hardware fault/replacement/any other maintenance activity etc and coordination with user department.</li> <li>b. Installation, configuration and maintenance of software's (not limited to system software's) except application software (provided by the application).</li> <li>c. Maintaining applicable SLAs for servers, storage, security equipment's (Firewall, switch etc) as per IT Infrastructure related service levels (Table 5.7.2 of the RFP volume I). All other SLA's relating to Data center services shall remain same.</li> </ol>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
				<p style="text-align: center;"><b>d. Manpower support as per skill set required to operate and maintain the Infrastructure.</b></p> <p><b>3. In future, if any Core Infrastructure (new additional hardware or software) is procured by any of the State Department and is being managed by respective department and is hosted in the State Data Centre, no O&amp;M charges will be paid of respective Hardware and Software CAPEX cost. In such cases, DCO shall be responsible to provide all the applicable common SLA's as per clause 5.7 of the RFP Volume – I related to Data Center services like power, cooling, LAN etc.</b></p>
15	RFP Volume I, Clause 4.4 Exit Management / Pg 49	<p>4.4 Exit Management Exit management shall involve the complete handover of the data center operations to the team identified by PSEGS, which would take care of SDC operations after the tenure of the DCO ends after five years. Exit Plan has to be submitted by the DCO and approved by PSEGS/ Department of Governance Reform/ Consultant.</p> <p>Exit procedure needs to be carried out as per approved Exit Plan. Exit Plan would include transfer of Intellectual property, transfer of assets, knowledge transfer and smooth transition from DCO operation and maintenance team to new team selected and managed by PSEGS.</p> <p>The scope of work is limited to equipment/ components procured as part of this RFP by DCO for running of SDC. Later</p>	Modification	<p><b>The Clause 4.4 shall be read as:</b></p> <p>4.4 Exit Management Exit management shall involve the complete handover of the data center operations to the team identified by PSEGS, which would take care of SDC operations after the tenure of the DCO ends after five years. Exit Plan has to be submitted by the DCO and approved by PSEGS/ Department of Governance Reform/ Consultant.</p> <p>Exit procedure needs to be carried out as per approved Exit Plan. Exit Plan would include transfer of Intellectual property, transfer of assets, knowledge transfer and smooth transition from DCO operation and maintenance team to new team selected and managed by PSEGS.</p> <p>The scope of work is limited to equipment/ components procured as part of this RFP by DCO for running of SDC. Later if any additional hardware or</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>if any additional hardware or software is required for hosting of applications in SDC. All the additional hardware and software required i.e. Storage, Licenses etc would be procured from the State funds by the State/ SIA &amp; would be maintained by the DCO. However,</p> <ol style="list-style-type: none"> <li>1. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO.</b></li> <li>2. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO."</b></li> </ol>		<p>software is required for hosting of applications in SDC. All the additional hardware and software required i.e. Storage, Licenses etc would be procured from the State funds by the State/ SIA &amp; would be maintained by the DCO. However,</p> <ol style="list-style-type: none"> <li>1. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO.</b></li> <li>2. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO."</b></li> <li>3. <b>In future, if any Core Infrastructure (new additional hardware or software) is procured by any of the State Department and is being managed by respective department and is hosted in the State Data Centre, no O&amp;M charges will be paid of respective Hardware and Software CAPEX cost. In such cases, DCO shall be</b></li> </ol>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>The DCO shall provide the Tendering authority with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the Agreement as a whole and in relation to the Project Implementation, and the Operation and Management SLA.</p> <p>A detailed program of the transfer process that could be used in conjunction with a Replacement of DCO including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer.</p> <p>Plans for the communication with such of the DCO sub contractors, staff, suppliers, customers and any related third party as are necessary to avoid any material detrimental impact on Project's operations as a result of undertaking the transfer.</p> <p>(If applicable) proposed arrangements for the segregation of the Implementing agency's networks from the networks employed by Project and identification of specific security tasks necessary at termination</p> <p>Plans for provision of contingent support to Project and Replacement Implementing agency for a reasonable period after transfer.</p>		<p><b>responsible to provide all the applicable common SLA's as per clause 5.7 of the RFP Volume – I related to Data Center services like power, cooling, LAN etc.</b></p> <p>The DCO shall provide the Tendering authority with a recommended exit management plan ("Exit Management Plan") which shall deal with at least the following aspects of exit management in relation to the Agreement as a whole and in relation to the Project Implementation, and the Operation and Management SLA.</p> <p>A detailed program of the transfer process that could be used in conjunction with a Replacement of DCO including details of the means to be used to ensure continuing provision of the services throughout the transfer process or until the cessation of the services and of the management structure to be used during the transfer.</p> <p>Plans for the communication with such of the DCO sub contractors, staff, suppliers, customers and any related third party as are necessary to avoid any material detrimental impact on Project's operations as a result of undertaking the transfer.</p> <p>(If applicable) proposed arrangements for the segregation of the Implementing agency's networks from the networks employed by Project and identification of specific security tasks necessary at termination</p> <p>Plans for provision of contingent support to Project and Replacement Implementing agency for a reasonable period after transfer.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>The DCO shall re-draft the Exit Management Plan annually thereafter to ensure that it is kept relevant and up to date. Each Exit Management Plan shall be presented by the DCO to and approved by the PSeGS, GoP or its nominated agencies. In the event of termination or expiry of Agreement, Project Implementation, or Operation and Management SLA, each Party shall comply with the Exit Management Plan. During the exit management period, the DCO shall use its best efforts to deliver the services. Payments during the Exit Management period shall be made in accordance with the Terms of Payment Schedule. This Exit Management plan shall be furnished in writing to the PSeGS, GoP or its nominated agencies within 90 days from the Effective Date of this Agreement. The DCO shall also provide all kind of technical support to designated agency while transferring the project and hand hold the project for at least one month to enable designated agency develop sufficient skills for smooth maintenance and operations of the network.</p> <p><b>Scope of Transfer Phase</b></p> <p>AT the end of the contract period, the DCO shall handover all the equipments/ software/ Components supplied and installed under the project as per Purchase order along with media, manuals, documentation to the tendering authority or its</p>		<p>The DCO shall re-draft the Exit Management Plan annually thereafter to ensure that it is kept relevant and up to date. Each Exit Management Plan shall be presented by the DCO to and approved by the PSeGS, GoP or its nominated agencies. In the event of termination or expiry of Agreement, Project Implementation, or Operation and Management SLA, each Party shall comply with the Exit Management Plan. During the exit management period, the DCO shall use its best efforts to deliver the services. Payments during the Exit Management period shall be made in accordance with the Terms of Payment Schedule. This Exit Management plan shall be furnished in writing to the PSeGS, GoP or its nominated agencies within 90 days from the Effective Date of this Agreement. The DCO shall also provide all kind of technical support to designated agency while transferring the project and hand hold the project for at least one month to enable designated agency develop sufficient skills for smooth maintenance and operations of the network.</p> <p><b>Scope of Transfer Phase</b></p> <p>AT the end of the contract period, the DCO shall handover all the equipments/ software/ Components supplied and installed under the project as per Purchase order along with media, manuals, documentation to the tendering authority or its nominee in up and running condition with a site wise Stock Registers.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>nominee in up and running condition with a site wise Stock Registers.</p> <p>The successful bidder shall hand over the entire physical and intellectual infrastructure deployed under the project in good running condition and supported by respective reports (in form of Hard and Soft copy), documents, updates record pertaining to software for networking equipment, security solutions, operating systems, Help/ Service Desk, tools deployed for service level management, facility management, configuration management, etc. The DCO shall also provide complete inventory record of all the equipment including necessary tools installed and operational along with their maintenance record at the time of Handover of the project. However, at the time of actual handover the tendering authority may ask DCO to provide any information related to the project which may not be covered in this section. DCO has to unconditionally provide all such information to tendering authority or tendering authority's nominee within desired timeframe in unobtrusive way. DCO would be providing such information without any additional cost to tendering authority. Failure to provide such information in time shall be treated as breach of contract.</p> <p><b>EMPLOYEES</b></p> <p>Promptly on reasonable request at any time during the exit management period, the DCO shall, subject to applicable laws,</p>		<p>The successful bidder shall hand over the entire physical and intellectual infrastructure deployed under the project in good running condition and supported by respective reports (in form of Hard and Soft copy), documents, updates record pertaining to software for networking equipment, security solutions, operating systems, Help/ Service Desk, tools deployed for service level management, facility management, configuration management, etc. The DCO shall also provide complete inventory record of all the equipment including necessary tools installed and operational along with their maintenance record at the time of Handover of the project. However, at the time of actual handover the tendering authority may ask DCO to provide any information related to the project which may not be covered in this section. DCO has to unconditionally provide all such information to tendering authority or tendering authority's nominee within desired timeframe in unobtrusive way. DCO would be providing such information without any additional cost to tendering authority. Failure to provide such information in time shall be treated as breach of contract.</p> <p><b>EMPLOYEES</b></p> <p>Promptly on reasonable request at any time during the exit management period, the DCO shall, subject to applicable laws, restraints and regulations (including in particular those relating to privacy) provide to PSeGS, GoP a list of all employees (with job titles) of the Implementing agency dedicated to providing the services at the commencement of the exit management period.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>restraints and regulations (including in particular those relating to privacy) provide to PSeGS, GoP a list of all employees (with job titles) of the Implementing agency dedicated to providing the services at the commencement of the exit management period.</p> <p>This Schedule sets out the provisions, which will apply on expiry or termination of the Project Implementation, Operation and Management of SLA.</p> <p>In the case of termination of the Project Implementation and/or Operation and Management SLA due to illegality, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.</p> <p>The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule</p>		<p>This Schedule sets out the provisions, which will apply on expiry or termination of the Project Implementation, Operation and Management of SLA.</p> <p>In the case of termination of the Project Implementation and/or Operation and Management SLA due to illegality, the Parties shall agree at that time whether, and if so during what period, the provisions of this Schedule shall apply.</p> <p>The Parties shall ensure that their respective associated entities carry out their respective obligations set out in this Exit Management Schedule</p>



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
16	RFP Volume I, Clause 7.29.1, Point No 3, Payment Schedule / Pg 168	<p><b>3. In future, if any Core Infrastructure (new additional hardware/software/networking equipment) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO.</b></p>	Modification	<p><b>Point no 3 of Clause 7.29.1 shall be read as:</b></p> <p><b>3 (a). In future, if any Core Infrastructure (new additional hardware or software) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO.</b></p> <p><b>3 (b). In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO."</b></p> <p><b>3 (c). In future, if any Core Infrastructure (new additional hardware or software) is procured by any of the State Department and is being managed by respective department and is hosted in the State Data Centre, no O&amp;M charges will be paid of respective Hardware and Software CAPEX cost. In such cases, DCO shall be responsible to provide all the applicable common SLA's as</b></p>

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
				<p align="center"><b>per clause 5.7 of the RFP Volume – I related to Data Center services like power, cooling, LAN etc..</b></p> <p><b>Rest of points for clause 7.29.1 remains same.</b></p>
17	RFP Volume I, Clause 5.9.2, FMS Scenarios / Pg 93	<p><b>5.9.2FMS Scenarios</b></p> <p>The selected bidder has to provide Facility Management Services (FMS)/ O&amp;M from the day 1 as if all racks with computing devices/ equipments are fully populated. Bidder has to provide FMS/ O&amp;M services for 40 racks (indicative capacity of server farm).</p> <p>The single FMS cost shall be paid on quarterly basis subject to clearance of all dues and meeting SLA.</p> <p>In the context, as server farm is populating gradually, DB server, Application server, other servers shall also grow in size, therefore, to maintain these under FMS, there shall be additional minimum manpower to be deployed by the bidder in FMS team.</p> <p>The selected bidder has to include the cost of FMS for five years in the financial bid looking all equipment not only in Server Farm but also in non Server Farm area are to be taken</p>	Modification	<p><b>The clause 5.9.2 to be read as below. The “Illustration: for FMS Cost to be included by the Bidder: in the clause remains same</b></p> <p><b>5.9.2FMS Scenarios</b></p> <p>The selected bidder has to provide Facility Management Services (FMS)/ O&amp;M from the day 1 as if all racks with computing devices/ equipments are fully populated. Bidder has to provide FMS/ O&amp;M services for 40 racks (indicative capacity of server farm).</p> <p>The single FMS cost shall be paid on quarterly basis subject to clearance of all dues and meeting SLA.</p> <p>In the context, as server farm is populating gradually, DB server, Application server, other servers shall also grow in size, therefore, to maintain these under FMS, there shall be additional minimum manpower to be deployed by the bidder in FMS team.</p> <p>The selected bidder has to include the cost of FMS for five years in the financial bid looking all equipment not only in Server Farm but also in non</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>in FMS from the first day. The Cost of FMS has to be cost of total FMS cost envisaged by the bidder in lines with IT road map for the State of Punjab. With due consideration to IT road map for the State of Punjab the tendering authority envisage all racks fully populated by the end of fifth year of operations. DCO is responsible for scalability as defined in technical specifications in Volume II.</p> <p><b>1. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO.</b></p> <p><b>2. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO.</b></p>		<p>Server Farm area are to be taken in FMS from the first day. The Cost of FMS has to be cost of total FMS cost envisaged by the bidder in lines with IT road map for the State of Punjab. With due consideration to IT road map for the State of Punjab the tendering authority envisage all racks fully populated by the end of fifth year of operations. DCO is responsible for scalability as defined in technical specifications in Volume II.</p> <p><b>1. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State under warranty, which will be hosted in the State Data Centre and DCO is required to maintain the SLA for the same and in case DCO needs a specialized skill set to Operate and Manage this Hardware and Software (i.e. any skill set not mentioned in the scope of this RFP), O&amp;M charges will be 1.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLA for the respective hardware and/or software will be the responsibility of the DCO.</b></p> <p><b>2. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State, not under warranty, which will be hosted in the State Data Centre, O&amp;M charges will be 3.0 % per Qtr of respective Hardware and Software CAPEX cost. Accordingly, maintaining the SLAs for the respective hardware or software will be the responsibility of the DCO."</b></p> <p><b>3. In future, if any Core Infrastructure (new additional hardware or software) is procured by any of the State Department and is being managed by respective department and is hosted in the State</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
				<p><b>Data Centre, no O&amp;M charges will be paid of respective Hardware and Software CAPEX cost. In such cases, DCO shall be responsible to provide all the applicable common SLA's as per clause 5.7 of the RFP Volume – I related to Data Center services like power, cooling, LAN etc.</b></p>
18	<p>RFP Volume I, Clause 4.5.1 Roles and Responsibility of Composite Team / Pg 52</p>	<p>4.5.1 Roles &amp; Responsibilities of Composite Team: A composite team shall be formed which will be mainly responsible for i. Overall Management of SDC ii. Change Management Board of SDC</p>	Deletion	<p><b>The clause 4.5.1 stands deleted</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification										
19	RFP Volume I, Clause 4.7 Resource Requirement: Manpower Resources / Pg 60	<p>4.7 Resource Requirement: Manpower Resources DCO Operations and Management would be done by a combined team consisting of DCO team and the Composite team constituted by the State.</p> <p>The composite team should consist of 2-3 personnel from Punjab State NIC and 2-3 personnel from PSEGS.</p> <p>The composite team will be mainly responsible for</p> <ol style="list-style-type: none"> <li>1. Overall Management of SDC</li> <li>2. Change Management Board of SDC</li> <li>3. Interface with User Departments for services provided by SDC.</li> </ol>	Deletion	<p><b>The below phrase stands deleted.</b></p> <p>DCO Operations and Management would be done by a combined team consisting of DCO team and the Composite team constituted by the State.</p> <p>The composite team should consist of 2-3 personnel from Punjab State NIC and 2-3 personnel from PSEGS.</p> <p>The composite team will be mainly responsible for</p> <ol style="list-style-type: none"> <li>1. Overall Management of SDC</li> <li>2. Change Management Board of SDC</li> <li>3. Interface with User Departments for services provided by SDC.</li> </ol> <p><b>Rest of clause remains same</b></p>										
20	RFP Volume I, Clause 4.7 Resource Requirement: Manpower Resources / Pg 60	<p>4.7.1 Minimum Manpower Resources to be provided by the DCO for the State Data Centre.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S. No.</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Shift</th> <th style="text-align: center;">Indicative Number of Manpower</th> <th style="text-align: center;">Certification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">Project-In-Charge</td> <td style="text-align: center;">24 x 7</td> <td style="text-align: center;">1</td> <td style="text-align: center;">B.E./B.Tech/M.Tech/MBA, 10 years+</td> </tr> </tbody> </table>	S. No.	Description	Shift	Indicative Number of Manpower	Certification	1.	Project-In-Charge	24 x 7	1	B.E./B.Tech/M.Tech/MBA, 10 years+	Modification	<p><b>The Point a in clause 4.7.1 to be read as:</b></p> <p><b>4.7.1 Minimum Manpower Resources to be provided by the DCO for the State Data Centre.</b></p>
S. No.	Description	Shift	Indicative Number of Manpower	Certification										
1.	Project-In-Charge	24 x 7	1	B.E./B.Tech/M.Tech/MBA, 10 years+										



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP				Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
					administrations, ITIL certified.		3.	Infrastructure Support Staff	To be proposed by the bidder		
		5.	Support Staff for – Servers		To be proposed by the bidder	Should be at least have ITIL certified.	4.	Technical Specialist – Servers	1	B.E. / B.Tech,/ MCA, 4-5 years, MCSE/ RHCE/ MCP etc. OEM Certifications for Server administrations, ITIL certified.	
		6.	Technical Specialist – Network & Security	24 x 7	2	B.E. / B.Tech,/ MCA /4 -5 years with CCNA/JNCA and security certifications like JNCP/CCNP	5.	Support Staff for – Servers	To be proposed by the bidder	Should be at least have ITIL certified.	
		7.	Support Staff for Network & Security		To be proposed by the bidder	At least CCNA/JNCA	6.	Technical Specialist – Network & Security	2	B.E. / B.Tech,/ MCA /4 -5 years with CCNA/JNCA and security certifications like JNCP/CCNP	

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP					Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
		8.	Database Administrator	24*7	1	B.E. / B.Tech,/ MCA /4 -5 years, Oracle/DB2,MSSq I/Relevant etc.		7.	Support Staff for Network & Security	To be proposed by the bidder	At least CCNA/JNCA	
		9.	Support staff for Database Administration		To be proposed by the bidder	At least working knowledge on Database		8.	Technical Specialist – Storage, DR, EMS/Cloud	2	B.E. / B.Tech,/ MCA, 4-5 years, OEM certifications on Storage & SAN management and working knowledge on BCP concepts and knowhow to execute DR drills and capability to handle Disaster restarts . Preferably OEM certifications for the platforms (application monitoring, server monitoring, network	



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP				Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
		10	Technical Specialist – Storage and DR		1	B.E. / B.Tech,/ MCA, 4-5 years, OEM certifications on Storage & SAN management and working knowledge on BCP concepts and knowhow to execute DR drills and capability to handle Disaster restarts .					monitoring, cloud automation etc.)
								9.	Support Staff for Storage and DR	To be proposed by the bidder	At least certified storage administration course /management certification
								10.	Support Staff for EMS/ Helpdesk/Cloud	To be proposed by the bidder	At least ITIL certified and working knowledge of EMS products.
		11	Support Staff for Storage and DR		To be proposed by the bidder	At least certified storage administration course /management certification		11.	Housekeeping & Physical security Support Staff	To be proposed by the bidder	
							*Additional support staff to be proposed by the bidder. Note: DCO has to maintain the required SLA mentioned in the RFP				

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP					Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		12	EMS/Cloud Specialist		2	B.E. / B.Tech/ MCA, 4-5 years, ITIL certified, OEM certifications for the platforms (application monitoring, server monitoring, network monitoring, cloud automation etc.)		<p>a. These are the minimum figures and Bidder shall account for the necessary manpower as required to meet the above requirements and the SLA terms. The suggested resources shall be available on site during working hours. In cases where 24 x 7 manpower deployments is not being done, the support should be available on 24 x 7 basis as and when required and support personnel should be available over phone or suitable means. On critical situations or when directed by the tendering authority, the support personnel must be available on site. In case if there is a change required in the available resources deployed at SDC, the DCO has to replace with suitable new resource of same or higher qualification and relevant experience. Any resource replacement at any point of time during the entire contractual period shall be pre intimated to PSEGS in writing at least 25 working days in advance. However the DCO has to take approval of the profile of the new resource from the PSeGS.</p> <p>Rest of clauses remains same in point no 4.7.1</p>
		13	Support Staff for EMS/ Helpdesk/Cloud		To be proposed by the bidder	At least ITIL certified and working knowledge of EMS products.		
		14	Housekeeping & Physical		To be proposed by the bidder			

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification					
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 35%; text-align: center;"><b>security Support Staff</b></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 20%;"></td> </tr> </table> <p>*Additional support staff to be proposed by the bidder. Note: DCO has to maintain the required SLA mentioned in the RFP</p> <p>a <b>These are the minimum figures and Bidder shall account for the necessary manpower as required to meet the above requirements and the SLA terms. In cases where 24 x 7 manpower deployments is not being done, the support should be available on 24 x 7 basis as and when required and support personnel should be available over phone or suitable means. On critical situations or when directed by the tendering authority, the support personnel must be available on site. Non availability of the support personnel as stated above will be treated equivalent to single occasion downtime for critical components. In case if there is a change required in the available resources deployed at SDC, the DCO has to replace with suitable new resource of same or higher qualification and</b></p>		<b>security Support Staff</b>					
	<b>security Support Staff</b>								

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification																														
		<p><b>relevant experience. Any resource replacement at any point of time during the entire contractual period shall be pre intimated to PSEGS in writing at least 25 working days in advance. However the DCO has to take approval of the profile of the new resource from the PIC.</b></p>																																
21	RFP Volume I, Clause 5.7.2, IT Infrastructure related service levels / Pg 79	<p>5.7.2 IT Infrastructure related service levels</p> <table border="1" style="width: 100%; border-collapse: collapse; background-color: #008080; color: white;"> <thead> <tr> <th>S.No</th> <th>Measurement</th> <th>Definition</th> <th>Target</th> <th>Penalty</th> </tr> </thead> <tbody> <tr style="background-color: #008080; color: white;"> <td colspan="5"><b><i>Computing Infrastructure Components (includes servers, OS, database, storage, LAN availability and services etc.)</i></b></td> </tr> <tr> <td>1.</td> <td>Data Center Uptime</td> <td>Uptime = {1 - [(Server downtime) / (Total Time -</td> <td>&gt;=99.75%  <b>Between 99.75%</b></td> <td>NA  For every 0.25% degradation in the uptime there will</td> </tr> </tbody> </table>	S.No	Measurement	Definition	Target	Penalty	<b><i>Computing Infrastructure Components (includes servers, OS, database, storage, LAN availability and services etc.)</i></b>					1.	Data Center Uptime	Uptime = {1 - [(Server downtime) / (Total Time -	>=99.75%  <b>Between 99.75%</b>	NA  For every 0.25% degradation in the uptime there will		<p><b>The Clause 5.7.2 to be read as:</b></p> <table border="1" style="width: 100%; border-collapse: collapse; background-color: #008080; color: white;"> <thead> <tr> <th>S.No</th> <th>Measurement</th> <th>Definition</th> <th>Target</th> <th>Penalty</th> </tr> </thead> <tbody> <tr style="background-color: #008080; color: white;"> <td colspan="5"><b><i>Computing Infrastructure Components (includes servers, OS, database, storage, LAN availability and services etc.)</i></b></td> </tr> <tr> <td>1.</td> <td>Data Center Uptime</td> <td>Uptime = {1 - [(Server downtime) / (Total Time -</td> <td>&gt;=99.75%  <b>Between 99.75%</b></td> <td>NA  For every 0.25% degradation</td> </tr> </tbody> </table>	S.No	Measurement	Definition	Target	Penalty	<b><i>Computing Infrastructure Components (includes servers, OS, database, storage, LAN availability and services etc.)</i></b>					1.	Data Center Uptime	Uptime = {1 - [(Server downtime) / (Total Time -	>=99.75%  <b>Between 99.75%</b>	NA  For every 0.25% degradation
S.No	Measurement	Definition	Target	Penalty																														
<b><i>Computing Infrastructure Components (includes servers, OS, database, storage, LAN availability and services etc.)</i></b>																																		
1.	Data Center Uptime	Uptime = {1 - [(Server downtime) / (Total Time -	>=99.75%  <b>Between 99.75%</b>	NA  For every 0.25% degradation in the uptime there will																														
S.No	Measurement	Definition	Target	Penalty																														
<b><i>Computing Infrastructure Components (includes servers, OS, database, storage, LAN availability and services etc.)</i></b>																																		
1.	Data Center Uptime	Uptime = {1 - [(Server downtime) / (Total Time -	>=99.75%  <b>Between 99.75%</b>	NA  For every 0.25% degradation																														

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP				Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
				Mainten ance Time)}} * 100	and 97.75%	be a penalty of 1 % of QGR					Mainten ance Time)}} * 100	and 97.75%	in the uptime there will be a penalty of 1 % of QGR
		2.	Connecti vity  with SWAN	1) Applicabl e only if  SWAN and SDC are collocate d  2) Limited only to equipme nt/ compone	99.75%	0.50% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime permissible as per Tier II standards.						<97.75%	For every 0.25% degradation in the uptime there will be a penalty of 1 % of QGR
									2.	Connecti vity  with SWAN	1) Applicabl e only if  SWAN and SDC are collocate d  2) Limited	99.75%	0.50% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP					Change Category (Addition/ Deletion/ Modification)	Addition/ Modification							
		4.	<b>SDC Security equipment availability</b>	<b>All Security equipments (IPS, HIPS, Firewall, Anti-Virus etc.)</b>	<b>99.75%</b>	<b>1% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime</b>						Compon ents.			stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime. Beyond 5 hours of down time, 1% of the QGR for every 1hour of down time at a stretch or in parts.
		5.	<b>SDC Server availability</b>	<b>All servers of SDC including OS, Database, application running on.</b>	<b>99.75%</b>	<b>1% of the QMC for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime</b>									
			4.	<b>SDC Security</b>	<b>All Security</b>	<b>99.75%</b>	<b>1% of the QGR for</b>								

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP					Change Category (Addition/ Deletion/ Modification)	Addition/ Modification								
		6.	<b>SDC storage availability</b>	<b>All storage availability (storage and backup restore).</b>	<b>99.75%</b>	<b>1% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime</b>					<b>equipment availability</b>	<b>equipments (IPS, HIPS, Firewall, Anti-Virus etc.)</b>			<b>every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime.</b>	
		7.	<b>SDC EMS availability</b>	<b>All EMS equipment availability</b>	<b>99.75%</b>	<b>1% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime</b>									<b>Beyond 5 hours of down time, 1% of the QGR for every 1 hour of down time</b>	



**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
		<p>Note: (i) As and when the DR comes the corresponding SLA will be included.                      (ii) DCO responsibility is limited to SDC only.</p>							<p><b>at a stretch or in parts</b></p>	
					5.	SDC Server availability	All servers of SDC including OS, Database, application running on.	99.75%	<p>1% of the QMC for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours of downtime.</p> <p>Beyond 5 hours of down time,</p>	

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
										1% of the QGR for every 1 hour of down time at a stretch or in parts
					6.	SDC storage availability	All storage availability (storage and backup restore).	99.75%		1% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall be calculated over and above the total hours

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
									<p>of downtime.</p> <p>Beyond 5 hours of down time, 1% of the QGR for every 1 hour of down time at a stretch or in parts</p>	
					7.	SDC EMS availability	All EMS equipment availability	99.75%	1% of the QGR for every hour of down time at a stretch or in parts up to total down time of 5 hours. This down time shall	

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
										<p>be calculated over and above the total hours of downtime.</p> <p>Beyond 5 hours of down time, 1% of the QGR for every 1 hour of down time at a stretch or in parts</p>
<p>Note: (i) As and when the DR comes the corresponding SLA will be included.</p>										

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
22	RFP Volume I, Clause 5.7.8 SI / FM Manpower Availability / Pg 91:	<p>Example: To illustrate the manpower availability in case there are there are 3 shifts per day which will have 2 people in shift 1, 1 in shift 2 and 1 in shift 3.</p> <p>Total shift per day will be = 4 (2 x 1 + 1 x 1 + 1 x 1)</p> <p>Per quarter it would be = 360 shifts</p> <p>In a quarter if two people were not present in shift 1 for 7 days than 2 x 7 = 14 shifts will be considered for the unavailability of manpower.</p> <p>Uptime% = (shifts in which manpower was available / total number of shifts) x 100</p> <p><b>Uptime % = (1 – 14 / 360) x 100</b></p> <p><b>Uptime % = 96.11%</b></p>	Modification	<p><b>The Example in clause 5.7.8 to be read as:</b></p> <p>Example: To illustrate the manpower availability in case there are there are 3 shifts per day which will have 2 people in shift 1, 1 in shift 2 and 1 in shift 3.</p> <p>Total shift per day will be = 4 (2 x 1 + 1 x 1 + 1 x 1)</p> <p>Per quarter it would be = 360 shifts</p> <p>In a quarter if two people were not present in shift 1 for 7 days than 2 x 7 = 14 shifts will be considered for the unavailability of manpower.</p> <p>Resource availability% = (shifts in which manpower was available / total number of shifts) x 100</p> <p><b>Resource availability % = (1 – 14 / 360) x 100</b></p> <p><b>Resource availability % = 96.11%</b></p>
23	RFP Volume I, Clause 7.6 & 7.6.1 Penalties & Performance Security / Pg 150:	<p>7.6 Penalties</p> <p>Penalties shall be governed by the following conditions:</p> <p><b>a. The Penalty shall be calculated on a quarterly guaranteed revenue (QGR).</b></p> <p>b. Two consecutive quarterly penalties (on actual) of more than 20 % put together of the applicable fee on account of any reasons will be deemed to be an event of default and termination. This shall be governed by the terms &amp; conditions defined in Section VII - General Conditions of the Contract.</p> <p>c. All Physical and IT infrastructure of SDC will be covered under the purview of this SLA document.</p> <p>7.6.1 Performance Security</p> <p>Performance Security is governed as per Clause 6.17 and LD clause shall be governed for supplies and services as follows:</p>	Modification	<p><b>The Clause to be read as:</b></p> <p>7.6 Penalties</p> <p>Penalties shall be governed by the following conditions:</p> <p><b>a. The Penalty for O&amp;M phase shall be calculated on a quarterly guaranteed revenue (QGR).</b></p> <p>b. Two consecutive quarterly penalties (on actual) of more than 20 % put together of the applicable fee on account of any reasons will be deemed to be an event of default and termination. This shall be governed by the terms &amp; conditions defined in Section VII - General Conditions of the Contract.</p> <p>c. All Physical and IT infrastructure of SDC will be covered under the purview of this SLA document.</p> <p>7.6.1 Performance Security</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>Bidder shall carry out the services in conformity with generally accepted professional and technically accepted norms relevant to such assignments that are required for the SDC project and which are to the entire satisfaction of the Tendering authority.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> In the event of any deficiency in services, the DCO shall promptly take necessary action to resolve it, at no additional fees to the Tendering authority.</li> <li><input type="checkbox"/> The earnest money deposited at the time of tender may be adjusted towards performance security amount or alternatively the bidder, taking the EMD back, may deposit a fresh performance security.</li> <li><input type="checkbox"/> Successful bidder shall deposit the performance security money as follows : <ul style="list-style-type: none"> <li>o 10% of total order value for the entire project duration.</li> <li>o Cash/ Bank Draft/ Bankers Cheque / Bank Guarantee (from a scheduled/nationalised bank whose branch is at Chandigarh/ Mohali) duly discharged in favor of PSeGS, Chandigarh.</li> </ul> </li> </ul> <p><b>o Performance Security bank Guarantee should be irrevocable till DC commissioning.</b></p> <p><b>o Performance bank Guarantee should be irrevocable till final termination of project period.</b></p> <ul style="list-style-type: none"> <li>o Client should take the conformation from the bank.</li> <li>o No interest will be paid by the Tendering Authority on the EMD &amp; bid security, performance security deposit.</li> <li>o DCO will have to execute an agreement on a Non-Judicial Stamp of appropriate value within a period of 20 days from the date of Lol and deposit performance security.</li> </ul>		<p>Performance Security is governed as per <b>Clause 6.22</b> and LD clause shall be governed for supplies and services as follows:</p> <p>Bidder shall carry out the services in conformity with generally accepted professional and technically accepted norms relevant to such assignments that are required for the SDC project and which are to the entire satisfaction of the Tendering authority.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> In the event of any deficiency in services, the DCO shall promptly take necessary action to resolve it, at no additional fees to the Tendering authority.</li> <li><input type="checkbox"/> The earnest money deposited at the time of tender may be adjusted towards performance security amount or alternatively the bidder, taking the EMD back, may deposit a fresh performance security.</li> <li><input type="checkbox"/> Successful bidder shall deposit the performance security money as follows : <ul style="list-style-type: none"> <li>o 10% of total order value for the entire project duration.</li> <li>o Cash/ Bank Draft/ Bankers Cheque / Bank Guarantee (from a scheduled/nationalised bank whose branch is at Chandigarh/ Mohali) duly discharged in favor of PSeGS, Chandigarh.</li> <li>o <b>Performance bank Guarantee should be irrevocable till six months after the expiry of the contract period.</b></li> <li>o Client should take the conformation from the bank.</li> <li>o No interest will be paid by the Tendering Authority on the EMD &amp; bid security, performance security deposit.</li> <li>o DCO will have to execute an agreement on a Non-Judicial Stamp of appropriate value within a period of 20 days from the date of Lol and deposit performance security.</li> </ul> </li> </ul> <p>The successful bidder shall be required to execute following agreements towards Facility Management Services:</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification												
		<p>The successful bidder shall be required to execute following agreements towards Facility Management Services:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Service Level Agreement for Supply, Installation, Integration, Network Operations and Maintenance Services etc. (including facility Management Services) for equipment/ software/ components under SDC.</li> <li><input type="checkbox"/> Non Disclosure Agreement - Failure of the DCO to comply with the requirements shall constitute sufficient grounds for the annulment of the award and forfeiture of the Performance Security.</li> </ul>		<ul style="list-style-type: none"> <li><input type="checkbox"/> Service Level Agreement for Supply, Installation, Integration, Network Operations and Maintenance Services etc. (including facility Management Services) for equipment/ software/ components under SDC.</li> <li><input type="checkbox"/> Non Disclosure Agreement - Failure of the DCO to comply with the requirements shall constitute sufficient grounds for the annulment of the award and forfeiture of the Performance Security.</li> </ul> <p><b>Rest of clause 7.6.2 and 7.6.3 remains same.</b></p>												
24	RFP Volume I, Clause 5.9.3 Liquidated Damages / Pg 96:	<p><b>5.9.3 Liquidated Damages</b></p> <p>In case of delayed submission of design documents mentioned in the scope of work and schedule mentioned therein, penalty of Rs. 25000/- per week per document would be imposed from the stipulated submission date of respective documents. In case of non-submission of such documents at all, an aggregate amount of Rs.1,00,00,00/- would be deducted. In case of extension in the delivery period / completion with liquidated damages the recovery shall be made on the basis of following percentages of value of Stores / work completion, which the bidder has failed to supply/ complete the work.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Condition</th> <th style="text-align: center;">LD</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>A</b></td> <td><b>Delay up to one fourth period of the prescribed delivery period / completion of work</b></td> <td style="text-align: center;"><b>2.5% of the Capex value</b></td> </tr> </tbody> </table>	No.	Condition	LD	<b>A</b>	<b>Delay up to one fourth period of the prescribed delivery period / completion of work</b>	<b>2.5% of the Capex value</b>	Modification	<p><b>The clause to be read as:</b></p> <p><b>5.9.3 Liquidated Damages</b></p> <p>In case of delayed submission of design documents mentioned in the scope of work and schedule mentioned therein, penalty of Rs. 25000/- per week per document would be imposed from the stipulated submission date of respective documents. In case of non-submission of such documents at all, an aggregate amount of Rs.1,00,00,00/- would be deducted. In case of extension in the delivery period / completion with liquidated damages the recovery shall be made on the basis of following percentages of value of Stores / work completion, which the bidder has failed to supply/ complete the work.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Condition</th> <th style="text-align: center;">LD</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b>A</b></td> <td><b>Delay exceeding one fourth but not exceeding half of the</b></td> <td style="text-align: center;"><b>7.5% of the Capex value</b></td> </tr> </tbody> </table>	No.	Condition	LD	<b>A</b>	<b>Delay exceeding one fourth but not exceeding half of the</b>	<b>7.5% of the Capex value</b>
No.	Condition	LD														
<b>A</b>	<b>Delay up to one fourth period of the prescribed delivery period / completion of work</b>	<b>2.5% of the Capex value</b>														
No.	Condition	LD														
<b>A</b>	<b>Delay exceeding one fourth but not exceeding half of the</b>	<b>7.5% of the Capex value</b>														

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification																		
		<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">B</td> <td>Delay exceeding one fourth but not exceeding half of the prescribed period / completion of work</td> <td style="text-align: center;">5% of the Capex value</td> </tr> <tr> <td style="text-align: center;">C</td> <td>Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work</td> <td style="text-align: center;">7.5% of the Capex value</td> </tr> <tr> <td style="text-align: center;">D</td> <td>Delay exceeding three fourth of the prescribed period / completion of work</td> <td style="text-align: center;">10% of the Capex value</td> </tr> </table> <p>Fraction of a day in reckoning period in supplies shall be eliminated if it is less than half a day.</p> <p>The maximum amount of liquidated damages shall be 10% of Capex.</p> <p>LD is applicable for implementation period only, for Operation &amp; Maintenance SLA clause will be applicable.</p> <p>If the DCO requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the authority, which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.</p> <p>Delivery period may be extended with or without liquidated damages if the delay in the supply of equipment / software / components is on account of hindrances beyond the control of the bidder.</p>	B	Delay exceeding one fourth but not exceeding half of the prescribed period / completion of work	5% of the Capex value	C	Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work	7.5% of the Capex value	D	Delay exceeding three fourth of the prescribed period / completion of work	10% of the Capex value		<table border="1" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;"><b>prescribed period / completion of work</b></td> <td></td> </tr> <tr> <td style="text-align: center;"><b>B</b></td> <td style="text-align: center;"><b>Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work</b></td> <td style="text-align: center;"><b>10% of the Capex value</b></td> </tr> <tr> <td style="text-align: center;"><b>C</b></td> <td style="text-align: center;"><b>Delay exceeding three fourth of the prescribed period / completion of work</b></td> <td style="text-align: center;"><b>15% of the Capex value</b></td> </tr> </table> <p>Fraction of a day in reckoning period in supplies shall be eliminated if it is less than half a day.</p> <p>The maximum amount of liquidated damages shall be 15% of Capex.</p> <p>LD is applicable for implementation period only, for Operation &amp; Maintenance SLA clause will be applicable.</p> <p>If the DCO requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to the authority, which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.</p> <p>Delivery period may be extended with or without liquidated damages if the delay in the supply of equipment / software / components is on account of hindrances beyond the control of the bidder.</p> <p>If state government fails to provide space at the respective sites of SDC to DCO and/or delay in statutory/ regulatory approvals/ Non availability of Bandwidth, the Liquidated damages for such delay shall not be levied on the DCO</p>		<b>prescribed period / completion of work</b>		<b>B</b>	<b>Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work</b>	<b>10% of the Capex value</b>	<b>C</b>	<b>Delay exceeding three fourth of the prescribed period / completion of work</b>	<b>15% of the Capex value</b>
B	Delay exceeding one fourth but not exceeding half of the prescribed period / completion of work	5% of the Capex value																				
C	Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work	7.5% of the Capex value																				
D	Delay exceeding three fourth of the prescribed period / completion of work	10% of the Capex value																				
	<b>prescribed period / completion of work</b>																					
<b>B</b>	<b>Delay exceeding half but not exceeding three fourth of the prescribed period / completion of work</b>	<b>10% of the Capex value</b>																				
<b>C</b>	<b>Delay exceeding three fourth of the prescribed period / completion of work</b>	<b>15% of the Capex value</b>																				



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>If state government fails to provide space at the respective sites of SDC to DCO and/or delay in statutory/ regulatory approvals/ Non availability of Bandwidth, the Liquidated damages for such delay shall not be levied on the DCO</p> <p>Subject to clause for Force Majeure if the bidder fails to complete the Commissioning of Data Center before the scheduled completion date or the extended date or if DCO repudiates the Contract before completion of the Work, the Tendering authority, at its discretion, may without prejudice to any other right or remedy available to the Tendering authority the Contract recover a maximum of 10 percent of the total CAPEX cost from the Implementation Agency, as Liquidated Damages (LD).</p> <p>In the case it leads to termination, the Tendering authority shall give 30 days notice to the DCO of its intention to terminate the Contract and shall so terminate the Contract unless during the 30 days notice period, the DCO initiates remedial action acceptable to the Tendering authority.</p> <p>The Tendering authority may without prejudice to its right to affect recovery by any other method, deduct the amount of liquidated damages from any money belonging to the DCO in its hands (which includes the Tendering authority right to claim such amount against Implementation Agency's Bank Guarantee) or which may become due to the Implementation Agency. Any such recovery or liquidated damages shall not in any way relieve the DCO from any of its obligations to complete the Works or from any other obligations and liabilities under the Contract.</p>		<p>Subject to clause for Force Majeure if the bidder fails to complete the Commissioning of Data Center before the scheduled completion date or the extended date or if DCO repudiates the Contract before completion of the Work, the Tendering authority, at its discretion, may without prejudice to any other right or remedy available to the Tendering authority the Contract recover a maximum of 15 percent of the total CAPEX cost from the Implementation Agency, as Liquidated Damages (LD).</p> <p>In the case it leads to termination, the Tendering authority shall give 30 days notice to the DCO of its intention to terminate the Contract and shall so terminate the Contract unless during the 30 days notice period, the DCO initiates remedial action acceptable to the Tendering authority.</p> <p>The Tendering authority may without prejudice to its right to affect recovery by any other method, deduct the amount of liquidated damages from any money belonging to the DCO in its hands (which includes the Tendering authority right to claim such amount against Implementation Agency's Bank Guarantee) or which may become due to the Implementation Agency. Any such recovery or liquidated damages shall not in any way relieve the DCO from any of its obligations to complete the Works or from any other obligations and liabilities under the Contract.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification																				
25	RFP Volume I, Clause 5.7.6 Compliance and Reporting SLA / Pg 87:	<p>5.7.6 Compliance and Reporting SLA</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #008080; color: white;"> <th style="width: 8%;">S.No</th> <th style="width: 12%;">Measure ment</th> <th style="width: 25%;">Definition</th> <th style="width: 10%;">Target</th> <th style="width: 45%;">Penalty</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">Submiss ion of MIS Reports</td> <td>The DCO shall submit the MIS reports requested by Punjab State EGovernance Society, Chandigarh broadly classified below but not limited to:                             <ul style="list-style-type: none"> <li>IMAC (Install, Move, Add, Change) Report</li> </ul> </td> <td style="text-align: center;">Report for the previous month shall be submitted by the 5th of the next month</td> <td style="text-align: center;">Between 1<sup>st</sup> – 5<sup>th</sup> NA Between 6<sup>th</sup> - 10<sup>th</sup> - 0.1%of QGR Between 11<sup>th</sup> - 20<sup>th</sup> - 0.2% of QGR Between 21<sup>st</sup> - 30<sup>th</sup> - 0.3% of QGR</td> </tr> </tbody> </table>	S.No	Measure ment	Definition	Target	Penalty	1.	Submiss ion of MIS Reports	The DCO shall submit the MIS reports requested by Punjab State EGovernance Society, Chandigarh broadly classified below but not limited to: <ul style="list-style-type: none"> <li>IMAC (Install, Move, Add, Change) Report</li> </ul>	Report for the previous month shall be submitted by the 5th of the next month	Between 1 <sup>st</sup> – 5 <sup>th</sup> NA Between 6 <sup>th</sup> - 10 <sup>th</sup> - 0.1%of QGR Between 11 <sup>th</sup> - 20 <sup>th</sup> - 0.2% of QGR Between 21 <sup>st</sup> - 30 <sup>th</sup> - 0.3% of QGR	Change Category (Addition/ Deletion/ Modification)	<p><b>The clause 5.7.6 to be read as:</b></p> <p>5.7.6 Compliance and Reporting SLA</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #008080; color: white;"> <th style="width: 8%;">S.No</th> <th style="width: 12%;">Measure ment</th> <th style="width: 25%;">Definition</th> <th style="width: 10%;">Target</th> <th style="width: 45%;">Penalty</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">Submissio n of MIS Reports</td> <td>The DCO shall submit the agreed complete set of MIS reports as requested by Punjab State EGovernance Society, Chandigarh broadly classified</td> <td style="text-align: center;">Report for the previous month shall be submitted by the 5th of the</td> <td style="text-align: center;">Between 1<sup>st</sup> – 5<sup>th</sup> NA Between 6<sup>th</sup> - 10<sup>th</sup> - 1%of QGR Between 11<sup>th</sup> - 20<sup>th</sup> 2% of QGR Between 21<sup>st</sup> - 30<sup>th</sup> - 3% of QGR</td> </tr> </tbody> </table>	S.No	Measure ment	Definition	Target	Penalty	1.	Submissio n of MIS Reports	The DCO shall submit the agreed complete set of MIS reports as requested by Punjab State EGovernance Society, Chandigarh broadly classified	Report for the previous month shall be submitted by the 5th of the	Between 1 <sup>st</sup> – 5 <sup>th</sup> NA Between 6 <sup>th</sup> - 10 <sup>th</sup> - 1%of QGR Between 11 <sup>th</sup> - 20 <sup>th</sup> 2% of QGR Between 21 <sup>st</sup> - 30 <sup>th</sup> - 3% of QGR
S.No	Measure ment	Definition	Target	Penalty																				
1.	Submiss ion of MIS Reports	The DCO shall submit the MIS reports requested by Punjab State EGovernance Society, Chandigarh broadly classified below but not limited to: <ul style="list-style-type: none"> <li>IMAC (Install, Move, Add, Change) Report</li> </ul>	Report for the previous month shall be submitted by the 5th of the next month	Between 1 <sup>st</sup> – 5 <sup>th</sup> NA Between 6 <sup>th</sup> - 10 <sup>th</sup> - 0.1%of QGR Between 11 <sup>th</sup> - 20 <sup>th</sup> - 0.2% of QGR Between 21 <sup>st</sup> - 30 <sup>th</sup> - 0.3% of QGR																				
S.No	Measure ment	Definition	Target	Penalty																				
1.	Submissio n of MIS Reports	The DCO shall submit the agreed complete set of MIS reports as requested by Punjab State EGovernance Society, Chandigarh broadly classified	Report for the previous month shall be submitted by the 5th of the	Between 1 <sup>st</sup> – 5 <sup>th</sup> NA Between 6 <sup>th</sup> - 10 <sup>th</sup> - 1%of QGR Between 11 <sup>th</sup> - 20 <sup>th</sup> 2% of QGR Between 21 <sup>st</sup> - 30 <sup>th</sup> - 3% of QGR																				

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP				Change Category (Addition/ Deletion/ Modification)	Addition/ Modification										
				<ul style="list-style-type: none"> <li>• Quarterly availability of different category of equipment</li> <li>• Exception report indicating calls completed beyond SLA, with calculation of non-performance deduction.</li> <li>• Report on planned server backup and backups actually taken</li> </ul>								below but not limited to:	next month				
											<ul style="list-style-type: none"> <li>• SLA Reports</li> <li>• IMAC (Install, Move, Add, Change) Report</li> <li>• Quarterly availability of different category of equipment</li> <li>• Exception report</li> </ul>						

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP			Change Category (Addition/ Deletion/ Modification)	Addition/ Modification								
				<ul style="list-style-type: none"> <li>• <b>Server Uptime Report</b></li> <li>• <b>Performance Report</b></li> <li>• <b>Network Availability and Utilization Report.</b></li> </ul> <p>The DCO shall workout the formats for above reports and get these approved by Punjab State EGovernance Society, Punjab within a month of being awarded the contract.</p>							<p>indicating calls completed beyond SLA, with calculation of non-performance deduction.</p> <ul style="list-style-type: none"> <li>• <b>Report on planned server backup and backups actually taken</b></li> </ul>			

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP				Change Category (Addition/ Deletion/ Modification)	Addition/ Modification													
		2.	Maintena nce of Inventory	The DCO should maintain an inventory of items that will be required on an ongoing basis. For e.g. tiles, cables etc.	100% as per the invento ry log committ ed and maintai ned by DCO.	Letter of Warning										<ul style="list-style-type: none"> <li>• <b>Server Uptime Report</b></li> <li>• <b>Performan ce Report</b></li> <li>• <b>Network Availabilit y and Utilization Report.</b></li> <li>• <b>Manpower attendanc e report</b></li> <li>• <b>List and log of access of authorized personnel'</b></li> </ul>				

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification								
								<p>s to data center.</p> <ul style="list-style-type: none"> <li>• Report on list of security incidents (External and internal) handled by security devices like firewall, IPS and security components as per clause</li> </ul>				

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
							<p><b>1.2.7 of RFP Volume II.</b></p> <ul style="list-style-type: none"> <li><b>• Reports on Security Incident handling, action taken and root cause analysis.</b></li> <li><b>• Reports on disaster recovery and Business continuity drill.</b></li> </ul>			

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
							<ul style="list-style-type: none"> <li>• Utilization of Cloud Infrastructure.</li> <li>• Report on BMS system including IT and Civil Infrastructure.</li> <li>• Report on patch deployment and version updates.</li> </ul>			



**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification						
							<p>The DCO shall workout the formats for above reports and get these approved by Punjab State EGovernance Society, Punjab within a month of being awarded the contract.</p>			
					2.	Maintenance of Inventory	The DCO should maintain an inventory of	100% as per the invento	Letter of Warning	

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification							
							items that will be required on an ongoing basis. For e.g. tiles, cables etc.	ry log committ ed and maintai ned by DCO.			
				Respective QGR payments shall be processed after receipt of agreed complete set of MIS reports.							
26	RFP Volume I, Clause 7.17, Terms and Extension of the Contract / Pg 160:	<p>7.17 Term and Extension of the Contract</p> <p>i. The term of this Contract shall be initially for a period of five years from the date of the site acceptance and start of live operations of the Data Center.</p> <p><b>ii. The Punjab State EGovernance Society shall reserve the sole right to grant any extension to the term above mentioned and shall notify in writing to the Implementation Agency, at least 6 months before the expiration of the Term hereof, whether it will grant the DCO an extension of the Term. The decision to grant or</b></p>	Modification	<p><b>The clause to be read as:</b></p> <p>7.17 Term and Extension of the Contract</p> <p>i. The term of this Contract shall be initially for a period of five years from the date of the site acceptance and start of live operations of the Data Center.</p> <p><b>ii. The Punjab State EGovernance Society shall reserve the sole right to grant any extension to the term above mentioned on same terms and conditions and shall notify in writing to the Implementation Agency, at least 6 months before the expiration of the Term hereof, whether it will grant the DCO an extension of the Term. The decision to grant or refuse</b></p>							

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification																
		<p><b>refuse the extension shall be at the Punjab State EGovernance Society discretion</b></p> <p>iii. Where the Punjab State EGovernance Society is of the view that no further extension of the term be granted to the Implementation Agency, the Punjab State EGovernance Society shall notify the DCO of its decision at least 6 (six) months prior to the expiry of the Term. Upon receipt of such notice, the DCO shall continue to perform all its obligations hereunder, until such reasonable time beyond the Term of the Contract within which, the Punjab State EGovernance Society shall either appoint an alternative Implementation Agency/service provider or create its own infrastructure to operate such Services as are provided under this Contract.</p>		<p><b>the extension shall be at the Punjab State EGovernance Society discretion.</b></p> <p>iii. Where the Punjab State EGovernance Society is of the view that no further extension of the term be granted to the Implementation Agency, the Punjab State EGovernance Society shall notify the DCO of its decision at least 6 (six) months prior to the expiry of the Term. Upon receipt of such notice, the DCO shall continue to perform all its obligations hereunder, until such reasonable time beyond the Term of the Contract within which, the Punjab State EGovernance Society shall either appoint an alternative Implementation Agency/service provider or create its own infrastructure to operate such Services as are provided under this Contract.</p>																
27	RFP Volume I, Clause 7.29 Payment Schedule/ Pg 169:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #c00000; color: white;"> <th>Sl. No.</th> <th>Payment Schedule</th> <th>Fee Payable</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Mobilization advance on deployment of Project Manager &amp; implementation team</td> <td style="text-align: center;">10% of the CAPEX</td> <td></td> </tr> </tbody> </table>	Sl. No.	Payment Schedule	Fee Payable	Remarks	1	Mobilization advance on deployment of Project Manager & implementation team	10% of the CAPEX		Modification	<p><b>The Table under clause 7.29 to be read as:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #c00000; color: white;"> <th>Sl. No.</th> <th>Payment Schedule</th> <th>Fee Payable</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Mobilization advance on deployment of Project Manager &amp; implementation team</td> <td style="text-align: center;">10% of the CAPEX</td> <td></td> </tr> </tbody> </table>	Sl. No.	Payment Schedule	Fee Payable	Remarks	1	Mobilization advance on deployment of Project Manager & implementation team	10% of the CAPEX	
Sl. No.	Payment Schedule	Fee Payable	Remarks																	
1	Mobilization advance on deployment of Project Manager & implementation team	10% of the CAPEX																		
Sl. No.	Payment Schedule	Fee Payable	Remarks																	
1	Mobilization advance on deployment of Project Manager & implementation team	10% of the CAPEX																		

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP				Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
		1.	Installation of all Non It equipments –I	20% of the CAPEX			1.	Installation of all Non It equipments –I	20% of the CAPEX		
		2.	Installation of all IT Equipments	20% of the CAPEX			2.	Installation of all IT Equipments	20% of the CAPEX		
		3.	On successful final acceptance test, training and submission of documents	40% of the CAPEX			3.	On successful final acceptance test, training and submission of documents	40% of the CAPEX		
		4.	CAPEX spread over 5 years, payable quarterly	10% of the CAPEX			4.	CAPEX spread over 5 years, payable quarterly	10% of the CAPEX		
		5.	<b>Operations and Management for 5 years payable quarterly</b>	5% (per quarter) of the OPEX	Payment terms would be quarterly in arrears after making due adjustment with SLA/ performance		5.	<b>Operations and Management for 5 years payable quarterly</b>	5% (per quarter) of the OPEX  1st quarter	Payment terms would be quarterly in arrears after making due adjustment with SLA/	

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP		Change Category (Addition/ Deletion/ Modification)	Addition/ Modification							
				<p>1st quarter payout will be made post structure d cabling certificati on valid for 25 yrs.</p> <p>2<sup>nd</sup> quarter payout will be made only after the SDC is ISO 20000 certified</p>	<p>and subject to verification and clearance from the Third Party Agency (TPA) as and when appointed.</p>					<p>payout will be made post structure d cabling certificati on valid for 25 yrs.</p> <p>2<sup>nd</sup> quarter payout will be made only after the SDC is ISO 20000 certified</p> <p>Subseque nt quarter's payout will be</p>	<p>performance and subject to verification and clearance from the Third Party Agency (TPA) as and when appointed.</p>	

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p><b>3<sup>rd</sup> quarter payout will be made only after the SDC in ISO 27001 certified.</b></p>		<p><b>made only after the SDC is ISO 27001 certified.</b></p>
28	RFP Volume I, Clause 7.36 Limitation of the Implementation Agency's Liability towards the Punjab State EGovernance Society / Pg 178:	<p>7.36 Limitation of the Implementation Agency's Liability towards the Punjab State EGovernance Society</p> <p>7.36.1 Except in case of gross negligence or willful misconduct on the part of the DCO or on the part of any person or company acting on behalf of the DCO in carrying out the Services, the Implementation Agency, with respect to damage caused by the DCO to Punjab State EGovernance Society's property, <b>shall not be liable to DGR.</b></p> <p>7.36.1.1 For any indirect or consequential loss or damage; and</p> <p>7.36.1.2 For any direct loss or damage that exceeds (A) the total payments payable under his contract to the DCO hereunder, or (B) the proceeds the DCO may be entitled to receive from any insurance maintained by the DCO to cover such a liability, whichever of (A) or (B) is higher.</p>		<p><b>The Clause to be read as:</b></p> <p>7.36 Limitation of the Implementation Agency's Liability towards the Punjab State EGovernance Society</p> <p>7.36.1 Except in case of gross negligence or willful misconduct on the part of the DCO or on the part of any person or company acting on behalf of the DCO in carrying out the Services, the Implementation Agency, with respect to damage caused by the DCO to Punjab State EGovernance Society's property, <b>shall not be liable to Punjab State EGovernance Society.</b></p> <p>7.36.1.1 For any indirect or consequential loss or damage; and</p> <p>7.36.1.2 For any direct loss or damage that exceeds (A) the total payments payable under his contract to the DCO hereunder, or (B) the proceeds the DCO may be entitled to receive from any insurance maintained by the DCO to cover such a liability, whichever of (A) or (B) is higher.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		7.36.2 This limitation of liability shall not affect the DCO liability, if any, for damage to Third Parties caused by the DCO or any person or firm/company acting on behalf of the DCO in carrying out the Services.		7.36.2 This limitation of liability shall not affect the DCO liability, if any, for damage to Third Parties caused by the DCO or any person or firm/company acting on behalf of the DCO in carrying out the Services.
29	RFP Volume I, Clause 6.22 Performance Security, Point no I/ Pg 139:	<p>6.22 Performance Security</p> <p><b>I. Within 20 days from the date of order from the Tendering authority, the successful Bidder shall furnish the performance security.</b></p> <p>II. Failure of the successful Bidder to comply with the requirement of Clause 6.19 or Clause 6.20.I shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD. In case of exigency, if the Tendering authority (gets the work done from elsewhere, the difference in the cost of getting the work done will be borne by the successful Bidder.</p>	Modification	<p><b>The clause to be read as:</b></p> <p>6.22 Performance Security</p> <p><b>I. The successful Bidder shall furnish the performance security before the signing of the contract.</b></p> <p>II. Failure of the successful Bidder to comply with the requirement of Clause 6.19 or Clause 6.20.I shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD. In case of exigency, if the Tendering authority (gets the work done from elsewhere, the difference in the cost of getting the work done will be borne by the successful Bidder.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
30	RFP Volume I, Clause 6.8 Bid Prices, Point no iv/ Pg 101:	<p>6.8 Bid Prices</p> <p>iv. The Bidder shall carry out all the tasks in accordance with the requirement of the tender documents with due diligence and it shall be the responsibility of the bidder to fully meet all the requirement of the tender documents. If during the course of execution of the project any revisions are required to meet the goals of Punjab State EGovernance Society, Punjab like Technical specifications, Equipment sizing etc. are to be made within the current price without any impact to Punjab State EGovernance Society, Punjab.</p> <p><b>vii. Prices quoted must be firm and shall not be subject to any upward revision on any account whatsoever throughout the period of contract. Punjab State EGovernance Society however reserves the right to review and negotiate the charges payable for the Data Center Hire, its Facilities, Maintenance and Management at the beginning of the each year or at any time at the request of Punjab State EGovernance Society whichever is earlier to incorporate downward revisions as applicable and necessary.</b></p>	Modification	<p><b>The point no iv and vii in clause no 6.8 to be read as:</b></p> <p>iv. The Bidder shall carry out all the tasks in accordance with the requirement of the tender documents with due diligence and it shall be the responsibility of the bidder to fully meet all the requirement of the tender documents. If during the course of execution of the project, any revisions which may be required to meet the goal of establishment of state data center by Punjab State EGovernance Society, the same shall be made within the current price without any impact to Punjab State EGovernance Society.</p> <p><b>vii. Prices quoted must be firm and shall not be subject to any upward revision on any account whatsoever throughout the period of contract.</b></p>



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
31	RFP Volume I, Clause 7.4 Representation & Warranties / Pg 147:	7.4 Representations & Warranties  <b>In order to induce Punjab State EGovernance Society Punjab to enter into this Contract</b> , the DCO hereby represents and warrants as of the date hereof, which representations and warranties shall survive the term and termination hereof, the following:	Modification	<b>The phrase to be read as:</b>  <b>Punjab State EGovernance Society to enter into this Contract</b> , the DCO hereby represents and warrants as of the date hereof, which representations and warranties shall survive the term and termination hereof, the following:  <b>Rest of clause 7.4 remains same</b>
32	RFP Volume I, Clause 7.13 Information Security, Point no 7.13.2/ Pg 158:	<b>7.13.2 The DCO shall adhere to the Information Security policy developed by Punjab State EGovernance Society, Punjab.</b>	Modification	<b>The clause 7.13.2 to be read as:</b>  <b>7.13.2 The DCO shall adhere to the Information Security policy of Government of India/Government of Punjab.</b>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
33	RFP Volume I, Section II Eligibility Criteria, Point no 5, 9/ Pg 13:	<p>5. The bidder (prime) should have commissioned and installed at least one Data center project that meets all the below mentioned requirements during the last Three (3) years:</p> <p>a. An Order Value (including IT and Non-IT but excluding basic building structure cost) of not less than <b>Rs. 5 crores.</b></p> <p>b. Valid BS 7799 / ISO 27001 certification</p> <p>Note:</p> <ul style="list-style-type: none"> <li>o Bidder's in house data centers shall not be considered.</li> <li>o Bidders who have built their own Internet Data Centre (IDC), for</li> </ul>	Modification	<p><b>The point no 5,9 to be read as:</b></p> <p>5. The bidder (prime) should have commissioned and installed at least one Data center project that meets all the below mentioned requirements during the last Three (3) years:</p> <p>a. An Order Value (including IT and Non-IT but excluding basic building structure cost) of not less than <b>Rs. 4 crores.</b></p> <p>b. Valid BS 7799 / ISO 27001 certification / Tier 3 certificate.</p> <p>Note:</p> <ul style="list-style-type: none"> <li>o Bidder's in house data centers shall not be considered.</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		commercial use will be considered.		o Bidders who have built their own Internet Data Centre (IDC), for commercial use will be considered.
		<p>9. a) The bidder (prime) must have on its roll at least 100 technically qualified professionals in, networking, systems integration, and prior experience in providing the Data Center Infrastructure maintenance services as on 31-3- 2015".</p> <p><b>b) At least five resources should be ITIL certified and five resources should be BS7799/ ISO</b></p>	<p>a) Certificate from the bidders HR Department for number of Technically qualified professionals employed by the company.</p> <p>b) Name of each employee along with certified copies of the certifications done, which are ITIL/BS7799/ISO 27001 lead Auditor of Lead</p>	<p>9. a) The bidder (prime) must have on its roll at least 100 technically qualified professionals in, networking, systems integration, and prior experience in providing the Data Center Infrastructure maintenance services as on 31-3- 2015".</p> <p><b>b) The bidder (prime/Consortium partner) shall have at least five resources ITIL certified and three resources be BS7799/ ISO 27001 lead Auditor or Lead Implementer certified.</b></p>

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p data-bbox="507 402 867 630"><b>27001 lead Auditor or Lead Implementer certified.</b></p> <p data-bbox="427 634 867 1385"><b>14. Each server and software OEM is required to submit an undertaking on the horizontal support of its products across various platforms/processors as follows : SERVER: Each server OEM is required to submit an undertaking, certifying its product to be supported on operating systems (OS) and Databases, with names and version details of the supported OS and Databases, for a period</b></p>	<p data-bbox="887 402 1213 630">implementer certified to be provided.</p> <p data-bbox="887 634 1213 1385"><b>Declaration letter along with relevant supporting documents.</b></p>	<p data-bbox="1468 402 1877 1385"><b>14. Each server, software OEM is required to submit an undertaking on the horizontal support of its products across various platforms/processors as follows: Server: Each server OEM is required to submit an undertaking, certifying its product to be supported on operating systems (OS) and Databases, with names and version details of the supported OS and Databases, for a period of 6 years, applicable from the date of supply of equipment to PSeGS.</b></p>

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>of 6 years, applicable from the date of completion of FAT.In case the said support is terminated for any reason within the required support period for SDC, the OEM shall provide a better server with no additional cost.</p> <p><b>Software:</b> Each software OEM is required to submit an undertaking certifying its products to be supported on operating systems (OS) and Databases with names and version details of the supported server and Databases/OS, for a period of 6 years, applicable from the date of completion of FAT.In case the said support is</p>		<p>In case the said support is terminated for any reason within the required support period for SDC, the bidder shall provide a better server with no additional cost.</p> <p><b>Software:</b> Each software OEM is required to submit an undertaking certifying its products to be supported on operating systems (OS) and Databases with names and version details of the supported server and Databases/OS, for a period of 6 years, applicable from the date of supply of equipment to PSeGS. In case the said</p>

**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification							
		<table border="1"> <tr> <td data-bbox="411 402 497 672"></td> <td data-bbox="497 402 877 672"> <p><b>terminated for any reason within the required support period for SDC, the OEM shall provide a new version of software as applicable with no additional cost.</b></p> </td> <td data-bbox="877 402 1223 672"></td> </tr> </table>		<p><b>terminated for any reason within the required support period for SDC, the OEM shall provide a new version of software as applicable with no additional cost.</b></p>			<table border="1"> <tr> <td data-bbox="1453 402 1538 748"></td> <td data-bbox="1538 402 1882 748"> <p><b>support is terminated for any reason within the required support period for SDC, the bidder shall provide a new version of software as applicable with no additional cost.</b></p> </td> <td data-bbox="1882 402 2208 748"></td> <td data-bbox="2208 402 2471 748"></td> </tr> </table>		<p><b>support is terminated for any reason within the required support period for SDC, the bidder shall provide a new version of software as applicable with no additional cost.</b></p>		
	<p><b>terminated for any reason within the required support period for SDC, the OEM shall provide a new version of software as applicable with no additional cost.</b></p>										
	<p><b>support is terminated for any reason within the required support period for SDC, the bidder shall provide a new version of software as applicable with no additional cost.</b></p>										
34	RFP Volume I, Section 7.25, Prices, Point no 7.25.1/ Pg 163:	<p><b>7.25.1 Prices quoted must be firm and shall not be subject to any upward revision on any account whatsoever throughout the period of contract. Punjab State EGovernance Society however reserves the right to review and negotiate the charges payable for the Data Center Hire, its Facilities, Maintenance and Management at the beginning of the each year or at any time at the request of Punjab State EGovernance Society whichever is earlier to incorporate downward revisions as applicable and necessary.</b></p>	Modification	<p><b>The clause 7.25.1 to be read as:</b></p> <p><b>Prices quoted must be firm and shall not be subject to any upward revision on any account whatsoever throughout the period of contract.</b></p>							

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
35	RFP Volume II, Clause 1.2.2.3.1 Application Server, Point no 9/ Pg 19:	9. Remote Administration: Should have network management port for remote administration	Deletion	<b>The point no 9 stands deleted.</b>  Rest of specifications remain same for 1.2.2.3.1
36	RFP Volume II, Clause 1.2.2.3.2 Software for Application Server, Point no 2/ Pg 21:	2. Application software has to be provided by bidder as a part of the solution along with the required software and licenses.	Deletion	<b>The point no 9 stands deleted.</b>  Rest of specifications remain same for 1.2.2.3.2

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
37	RFP Volume II, Clause 1.2.2.4.1 Database Server-Hardware specifications , Point no 9/ Pg 22:	<p><b>9. 4 * 1 Gigabit Ethernet Ports</b>                      All cards should be on 64 bit PCI-X/PCI-e slots operating at minimum 133MHz or higher                      HBA : 2 x dual port 8Gbps                      HBA should support storage subsystems of leading manufactures like EMC, Hitachi, HP, IBM, SUN etc                      HBA should support Microsoft and Linux/Unix Operating Systems                      Redundant, hot swappable, power/cooling units                      System should have capability to support virtualization software                      RAID Controller: RAID controller to support various levels of RAID</p>	Modification	<p><b>The point no 9 to be read as:</b></p> <p><b>9. Multi Function Port:                      2 * 10G CNA Ports</b>                      All cards should be on 64 bit PCI-X/PCI-e slots operating at minimum 133MHz or higher                      HBA : 2 x dual port 8Gbps                      HBA should support storage subsystems of leading manufactures like EMC, Hitachi, HP, IBM, SUN etc                      HBA should support Microsoft and Linux/Unix Operating Systems                      Redundant, hot swappable, power/cooling units                      System should have capability to support virtualization software                      RAID Controller: RAID controller to support various levels of RAID</p> <p><b>Rest of specifications remain same for 1.2.2.4.1</b></p>



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
38	RFP Volume II, Clause 1.2.2.5.1 Staging Server – Hardware Specifications, Point no 11/ Pg 25:	11. <b>4*1 Gigabit Ethernet Port</b>	Modification	<p><b>The Point no 11 to be read as:</b>  <b>11. Multi Function Port: 2 * 10G CNA Ports</b></p> <p><b>Rest of specifications remain same for 1.2.2.5.1</b></p>
39	RFP Volume II, Clause 1.2.2.6.4 Backup Server Hardware, Point no 9/ Pg 35	9. <b>4*1 Gigabit Ethernet Port</b>	Modification	<p><b>The Point no 9 to be read as:</b>  <b>9. Multi Function Port: 2 * 10G CNA Ports</b></p> <p><b>Rest of specifications remain same for 1.2.2.6.4</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification																											
40	RFP Volume II, Clause 1.2.2.7.3 Directory Service, DNS, DHCP – Hardware (Blade) Point no 9,10,15/ Pg 44	<table border="1"> <tr> <td style="text-align: center;">9.</td> <td><b>Network Port</b></td> <td><b>Minimum 2*1 Gigabit NIC Ports per blade Server</b></td> </tr> <tr> <td style="text-align: center;">10.</td> <td>Network Mgmt port</td> <td>Required</td> </tr> <tr> <td style="text-align: center;">15.</td> <td>HBA Port</td> <td>Blade should be provided with 4 Gbps HBA port</td> </tr> </table>	9.	<b>Network Port</b>	<b>Minimum 2*1 Gigabit NIC Ports per blade Server</b>	10.	Network Mgmt port	Required	15.	HBA Port	Blade should be provided with 4 Gbps HBA port	Modification	<p>The point no 9 to be read as:</p> <table border="1"> <tr> <td style="text-align: center;">9.</td> <td><b>Network Port</b></td> <td><b>Multi Function Port: 2 * 10G CNA Ports per blade server. CNA ports must be divided into NIC and FC ports</b></td> </tr> </table> <p><b>The point no 10 and 15 are deleted.</b></p> <p>Rest of specifications remain same for 1.2.2.7.3</p>	9.	<b>Network Port</b>	<b>Multi Function Port: 2 * 10G CNA Ports per blade server. CNA ports must be divided into NIC and FC ports</b>															
9.	<b>Network Port</b>	<b>Minimum 2*1 Gigabit NIC Ports per blade Server</b>																													
10.	Network Mgmt port	Required																													
15.	HBA Port	Blade should be provided with 4 Gbps HBA port																													
9.	<b>Network Port</b>	<b>Multi Function Port: 2 * 10G CNA Ports per blade server. CNA ports must be divided into NIC and FC ports</b>																													
41	RFP Volume II, Clause 1.2.2.8.2 Anti-Virus Solution – Hardware (Blade) Point no 7,8,9/ Pg 50	<table border="1"> <tr> <td style="text-align: center;">7.</td> <td><b>Hard Disk Drive(s)</b></td> <td><b>4 * 300 Gb scalable upto min 6 such HDD</b></td> </tr> <tr> <td></td> <td>Type of HDD</td> <td>Hot Plug @10K SFF SAS</td> </tr> <tr> <td></td> <td>HDD Controller</td> <td>Dual Channel H/W RAID Level 0,1</td> </tr> <tr> <td style="text-align: center;">8.</td> <td><b>Network port</b></td> <td><b>Min. 2*1 Gbps</b></td> </tr> <tr> <td style="text-align: center;">9.</td> <td><b>Network Mgmt port</b></td> <td><b>Required</b></td> </tr> </table>	7.	<b>Hard Disk Drive(s)</b>	<b>4 * 300 Gb scalable upto min 6 such HDD</b>		Type of HDD	Hot Plug @10K SFF SAS		HDD Controller	Dual Channel H/W RAID Level 0,1	8.	<b>Network port</b>	<b>Min. 2*1 Gbps</b>	9.	<b>Network Mgmt port</b>	<b>Required</b>	Modification	<p>The point no 7,8 to be read as:</p> <table border="1"> <tr> <td style="text-align: center;">7.</td> <td><b>Hard Disk Drive(s)</b></td> <td><b>2 * 300 Gb</b></td> </tr> <tr> <td></td> <td>Type of HDD</td> <td>Hot Plug @10K SFF SAS</td> </tr> <tr> <td></td> <td>HDD Controller</td> <td>Dual Channel H/W RAID Level 0,1</td> </tr> <tr> <td style="text-align: center;">8.</td> <td><b>Network port</b></td> <td><b>Multi Function Port: 2 * 10G CNA Ports per blade server. CNA ports must be divided into NIC and FC ports</b></td> </tr> </table>	7.	<b>Hard Disk Drive(s)</b>	<b>2 * 300 Gb</b>		Type of HDD	Hot Plug @10K SFF SAS		HDD Controller	Dual Channel H/W RAID Level 0,1	8.	<b>Network port</b>	<b>Multi Function Port: 2 * 10G CNA Ports per blade server. CNA ports must be divided into NIC and FC ports</b>
7.	<b>Hard Disk Drive(s)</b>	<b>4 * 300 Gb scalable upto min 6 such HDD</b>																													
	Type of HDD	Hot Plug @10K SFF SAS																													
	HDD Controller	Dual Channel H/W RAID Level 0,1																													
8.	<b>Network port</b>	<b>Min. 2*1 Gbps</b>																													
9.	<b>Network Mgmt port</b>	<b>Required</b>																													
7.	<b>Hard Disk Drive(s)</b>	<b>2 * 300 Gb</b>																													
	Type of HDD	Hot Plug @10K SFF SAS																													
	HDD Controller	Dual Channel H/W RAID Level 0,1																													
8.	<b>Network port</b>	<b>Multi Function Port: 2 * 10G CNA Ports per blade server. CNA ports must be divided into NIC and FC ports</b>																													

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
				<p><b>The point no 9 stands deleted.</b></p> <p><b>Rest of specifications remain same for 1.2.2.8.2</b></p>				
42	RFP Volume II, Clause 1.2.3.1 LAN Switch – Core, Point no 11.0/ Pg 59:	<table border="1" style="width: 100%;"> <tr> <td style="width: 5%;">3.0</td> <td> <ol style="list-style-type: none"> <li>1. Layer 2 Features for Solution</li> <li>2. Layer 2 switch ports and VLAN trunks</li> <li>3. IEEE 802.1Q VLAN encapsulation</li> <li>4. Support for at least 4000 VLANs.</li> <li>5. 802.1s</li> <li>6. 802.1w</li> <li>7. Port trunking capability.</li> <li>8. Port mirroring capability</li> <li>9. Support for 100,000 or more MAC addresses</li> <li>10. Switch should support 32k IPv4 &amp; 16k IPv6 routes per line card.</li> <li>11. The core must support MAC learning disable</li> <li>12. The core musts support static MAC address assignment for interface.</li> </ol> </td> </tr> </table>	3.0	<ol style="list-style-type: none"> <li>1. Layer 2 Features for Solution</li> <li>2. Layer 2 switch ports and VLAN trunks</li> <li>3. IEEE 802.1Q VLAN encapsulation</li> <li>4. Support for at least 4000 VLANs.</li> <li>5. 802.1s</li> <li>6. 802.1w</li> <li>7. Port trunking capability.</li> <li>8. Port mirroring capability</li> <li>9. Support for 100,000 or more MAC addresses</li> <li>10. Switch should support 32k IPv4 &amp; 16k IPv6 routes per line card.</li> <li>11. The core must support MAC learning disable</li> <li>12. The core musts support static MAC address assignment for interface.</li> </ol>	Modification	<p><b>The point no 3.0, 5.0, 8.0, 9.0, 11.0 to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 5%;">3.0</td> <td> <ol style="list-style-type: none"> <li>1. Layer 2 Features for Solution</li> <li>2. Layer 2 switch ports and VLAN trunks</li> <li>3. IEEE 802.1Q VLAN encapsulation</li> <li>4. Support for at least 4000 VLANs.</li> <li>5. 802.1s</li> <li>6. 802.1w</li> <li>7. Port trunking capability.</li> <li>8. Port mirroring capability</li> <li>9. Support for 100,000 or more MAC addresses</li> <li>10. Switch should support 32k IPv4 &amp; 16k IPv6 routes per line card.</li> <li>11. The core must support MAC learning disable</li> <li>12. The core musts support static MAC address assignment for interface.</li> <li>13. Switch should support 12k unicast and 6k multicast routes per line card</li> </ol> </td> </tr> </table>	3.0	<ol style="list-style-type: none"> <li>1. Layer 2 Features for Solution</li> <li>2. Layer 2 switch ports and VLAN trunks</li> <li>3. IEEE 802.1Q VLAN encapsulation</li> <li>4. Support for at least 4000 VLANs.</li> <li>5. 802.1s</li> <li>6. 802.1w</li> <li>7. Port trunking capability.</li> <li>8. Port mirroring capability</li> <li>9. Support for 100,000 or more MAC addresses</li> <li>10. Switch should support 32k IPv4 &amp; 16k IPv6 routes per line card.</li> <li>11. The core must support MAC learning disable</li> <li>12. The core musts support static MAC address assignment for interface.</li> <li>13. Switch should support 12k unicast and 6k multicast routes per line card</li> </ol>
3.0	<ol style="list-style-type: none"> <li>1. Layer 2 Features for Solution</li> <li>2. Layer 2 switch ports and VLAN trunks</li> <li>3. IEEE 802.1Q VLAN encapsulation</li> <li>4. Support for at least 4000 VLANs.</li> <li>5. 802.1s</li> <li>6. 802.1w</li> <li>7. Port trunking capability.</li> <li>8. Port mirroring capability</li> <li>9. Support for 100,000 or more MAC addresses</li> <li>10. Switch should support 32k IPv4 &amp; 16k IPv6 routes per line card.</li> <li>11. The core must support MAC learning disable</li> <li>12. The core musts support static MAC address assignment for interface.</li> </ol>							
3.0	<ol style="list-style-type: none"> <li>1. Layer 2 Features for Solution</li> <li>2. Layer 2 switch ports and VLAN trunks</li> <li>3. IEEE 802.1Q VLAN encapsulation</li> <li>4. Support for at least 4000 VLANs.</li> <li>5. 802.1s</li> <li>6. 802.1w</li> <li>7. Port trunking capability.</li> <li>8. Port mirroring capability</li> <li>9. Support for 100,000 or more MAC addresses</li> <li>10. Switch should support 32k IPv4 &amp; 16k IPv6 routes per line card.</li> <li>11. The core must support MAC learning disable</li> <li>12. The core musts support static MAC address assignment for interface.</li> <li>13. Switch should support 12k unicast and 6k multicast routes per line card</li> </ol>							

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>13. Switch should support 12k unicast and 6k multicast routes per line card</p> <p>14. The core must support per vlan MAC learning limit 3.12 The core must support MAC address filtering.</p> <p>15. The core must support Jumbo frames up to 9216 bytes</p>		<p><b>14. The core must support per vlan MAC learning limit. The core must support MAC address filtering.</b></p> <p>15. The core must support Jumbo frames up to 9216 bytes</p> <p>14. The core must support per vlan MAC learning limit. The core must support MAC address filtering.</p>
		<p>5.0</p> <p>1. Standards</p> <p><b>2. Ethernet : IEEE 802.3, 10BASE-T</b></p> <p>3. Fast Ethernet : IEEE 802.3u, 100BASE-TX</p> <p>4. Gigabit Ethernet: IEEE 802.3z, 802.3ab</p> <p>5. IEEE 802.1D Spanning-Tree Protocol</p> <p>6. IEEE 802.1w rapid reconfiguration of spanning tree</p> <p>7. IEEE 802.1s multiple VLAN instances of spanning tree or Equivalet.</p> <p>8. IEEE 802.1p class-of-service (CoS) prioritization</p> <p>9. IEEE 802.1Q VLAN encapsulation</p> <p>10. IEEE 802.3ad</p> <p>11. IEEE 802.1x user authentication</p> <p>12. 1000BASE-X (small form-factor pluggable)</p> <p><b>13. 1000BASE-X (GBIC) (Support for SX,LX)</b></p>		<p>5.0</p> <p>1. Standards</p> <p><b>2. Ethernet: IEEE 802.3</b></p> <p>3. Fast Ethernet: IEEE 802.3u</p> <p>4. Gigabit Ethernet: IEEE 802.3z, 802.3ab</p> <p>5. IEEE 802.1D Spanning-Tree Protocol</p> <p>6. IEEE 802.1w rapid reconfiguration of spanning tree</p> <p>7. IEEE 802.1s multiple VLAN instances of spanning tree or Equivalent.</p> <p>8. IEEE 802.1p class-of-service (CoS) prioritization</p> <p>9. IEEE 802.1Q VLAN encapsulation</p> <p>10. IEEE 802.3ad</p> <p>11. IEEE 802.1x user authentication</p> <p>12. 1000BASE-X (small form-factor pluggable)</p> <p><b>13. 1000BASE-X (GBIC/SFP) (Support for SX,LX)</b></p>
		<p>8.0</p> <p>1. Must support Layer 2 QoS.</p> <p>2. The core must support ingress/egress policing</p> <ul style="list-style-type: none"> <li>- 1-rate 2-color</li> <li>- 1-rate 3-color</li> <li>- 2-rate 3 color</li> </ul>		<p>8.0</p> <p>1. Must support Layer 2 QoS.</p> <p>2. The core must support ingress/egress policing</p> <ul style="list-style-type: none"> <li>- 1-rate 2-color</li> <li>- 1-rate 3-color</li> <li>- 2-rate 3 color</li> </ul> <p>3. The core must support egress shaping - per queue, per port</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>3. The core must support egress shaping - per queue, per port</p> <p>4. The core must support 8 hardware queues (shared between unicast and multicast) per port.</p> <p>5. The core must support the following egress queue scheduling methods:</p> <ul style="list-style-type: none"> <li>- Strict priority (SP)</li> <li>- Shaped Deficit Weighted Round-Robin (SDWRR)</li> </ul> <p><b>6. The core must support the following congestion management mechanisms:</b></p> <ul style="list-style-type: none"> <li>- <b>Weighted Random Early Detection (WRED)</b></li> <li>- <b>Weighted Tail Drop</b></li> </ul> <p>7. The core must support IEEE 802.1p remarking.</p> <p>8. The core must support IEEE 802.1p, DSCP trust (ingress).</p> <p>9. The core must support the following classification criteria:</p> <ul style="list-style-type: none"> <li>- Interface</li> <li>- MAC address</li> <li>- Ethertype</li> <li>- IEEE 802.1p</li> <li>- VLAN</li> </ul>		<p>4. The core must support 8 hardware queues (shared between unicast and multicast) per port.</p> <p>5. The core must support the following egress queue scheduling methods:</p> <ul style="list-style-type: none"> <li>- Strict priority (SP)</li> <li>- Shaped Deficit Weighted Round-Robin (SDWRR)</li> </ul> <p><b>6. The core switch must support the following congestion management mechanisms:</b></p> <ul style="list-style-type: none"> <li>- <b>Weighted Random Early Detection (WRED) or Weighted Tail drop or equivalent.</b></li> </ul> <p>7. The core must support IEEE 802.1p remarking.</p> <p>8. The core must support IEEE 802.1p, DSCP trust (ingress).</p> <p>9. The core must support the following classification criteria:</p> <ul style="list-style-type: none"> <li>- Interface</li> <li>- MAC address</li> <li>- Ethertype</li> <li>- IEEE 802.1p</li> <li>- VLAN</li> </ul>
		<p>9.0 Security Features</p> <p>9.1 Must support the following Access Control Lists (ACLs):</p> <ul style="list-style-type: none"> <li>- Port-based ACL (PACL) – Ingress and Egress</li> <li>- VLAN-based ACL (VACL) – Ingress and Egress</li> </ul>		<p>9.0 Security Features</p> <p>9.1 Must support the following Access Control Lists (ACL)</p> <ul style="list-style-type: none"> <li>- Port-based ACL (PACL) – Ingress and Egress</li> <li>- VLAN-based ACL (VACL) – Ingress and Egress</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p><b>- Router-based ACL (RACL) – Ingress and Egress</b>            9.2 The core must support the following ACL actions:            - Permit            - Drop            - Reject            - Police            - Mark            - assign forwarding class            - log            - count            - mirror to an interface            9.3 The core must support min of 12,000 ACL entries in hardware.            9.4 The core must support the ability to add/remove/change/insert ACL entries</p>		<p><b>- Router-based ACL (RACL) / Layer 3 - Ingress and Egress</b>            9.2 The core must support the following ACL actions:            - Permit            - Drop            - Reject            - Police            - Mark            - assign forwarding class            - log            - count            - mirror to an interface  <b>9.3 The core must support min of 8000 ACL entries in hardware.</b>            9.4 The core must support the ability to add/remove/change/insert ACL entries</p>
		<p><b>11.0</b> The solution should have sufficient interfaces to connect the following interfaces on the Top of the rack nodes.  <b>32 Port 10 Gig distributed across two line cards/ Nodes</b>  <b>One (1) 32 Port 1G Fiber (SFP based) line card/ Node (distributed between more than 1 line card/Nodes is also accepted)</b></p>		<p><b>11.0</b> <b>1) The core switch should have sufficient interfaces to connect the Top of the rack switches. 12 Nodes or ToR Switches would be required for the scalability of the switch and at least 6 (Six)Top of Rack switches should be proposed which shall be further connected to Core.</b>  <b>2) The core switch shall be populated with:</b>  <b>a. 32 Port 10 Gig distributed across two line cards/ Nodes.</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>1 x 32 port 10/100/1000BaseTEthernet based line card/ Node (distributed between more than 1 line card/Nodes is also accepted). All 10G &amp; 1G SFP's wire rate with Multi Mode (MM) in nature &amp; shall be supplied with the switch.</p> <p>Fiber Patch Cords for all the racks considering at least 5 servers in a rack must be supplied in the solution.</p>		<p>b. One (1) 32 Port 1G Fiber (SFP based) line card/ Node (distributed between more than 1 line card/Nodes is also accepted)</p> <p>c. 1 x 32 port 1000BaseT Ethernet based line card/ Node (distributed between more than 1 line card/Nodes is also accepted).</p> <p>d. All 10G &amp; 1G SFP's wire rate with Multi Mode (MM) in nature &amp; shall be supplied with the switch.</p> <p>e. Fiber Patch Cords for all the racks considering at least 5 servers in a rack must be supplied with the switch.</p> <p><b>Rest of specifications remain same for 1.2.3.1</b></p>
43	RFP Volume II, Clause 1.2.3.2 LAN Switch – Access, Point no 12.0/ Pg 60:	<p>12.0 Should support follwing standards like IEEE 802.1p: CoS prioritization</p> <ul style="list-style-type: none"> <li>● IEEE 802.1Q: VLAN tagging</li> <li>● <b>IEEE 802.3: Ethernet</b></li> <li>● IEEE 802.3ae: 10 Gigabit Ethernet</li> <li>● SFF 8431 SFP+ support</li> <li>● IEEE 802.3u 100BASE-TX specification</li> <li>● IEEE 802.3ab 1000BASE-T specification</li> <li>● IEEE 802.3an 10GBASE-T</li> <li>● 10GBASE-SR</li> <li>● 10GBASE-LR</li> <li>● <b>SFF-8461</b></li> </ul>	Modification	<p><b>The point no 12.0 to be read as:</b></p> <p>12.0 Should support follwing standards like IEEE 802.1p: CoS prioritization</p> <ul style="list-style-type: none"> <li>● IEEE 802.1Q: VLAN tagging</li> <li>● IEEE 802.3ae: 10 Gigabit Ethernet</li> <li>● SFF 8431 SFP+ support</li> <li>● IEEE 802.3u 100BASE-TX specification</li> <li>● IEEE 802.3ab 1000BASE-T specification</li> <li>● IEEE 802.3an 10GBASE-T</li> <li>● 10GBASE-SR</li> <li>● 10GBASE-LR</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification								
				<b>Rest of specifications remain same for 1.2.3.2</b>								
44	RFP Volume II, Clause 1.2.3.6 End Point Protection for Servers and PCs (HIDS/HIPS), Point no 4.0 / Pg 71	<table border="1"> <tr> <td style="text-align: center;">4.</td> <td><b>File and Registry Protection/ Lockdown.</b> 5.1 It should protect system files and registry entries from modification or deletion</td> </tr> <tr> <td style="text-align: center;">11.</td> <td><b>Smart Event Response.</b> 14.1 It should provide pre-defined, automated responses to events. Actions include alerting the administrator, disabling the user account, logging the event.</td> </tr> </table>	4.	<b>File and Registry Protection/ Lockdown.</b> 5.1 It should protect system files and registry entries from modification or deletion	11.	<b>Smart Event Response.</b> 14.1 It should provide pre-defined, automated responses to events. Actions include alerting the administrator, disabling the user account, logging the event.	Modification	<p>The point no 4, 11 to be read as:</p> <table border="1"> <tr> <td style="text-align: center;">4.</td> <td><b>File and Registry Protection.</b> Solution should be capable of monitoring critical operating system and application elements (files, directories, and registry keys) to detect suspicious behavior, such as modifications, or changes.</td> </tr> <tr> <td style="text-align: center;">11.</td> <td><b>14.1 It should provide pre-defined, automated responses to events. Actions include alerting the administrator, logging the event.</b></td> </tr> </table> <p style="text-align: center;"><b>Rest of specifications remain same for 1.2.3.6</b></p>	4.	<b>File and Registry Protection.</b> Solution should be capable of monitoring critical operating system and application elements (files, directories, and registry keys) to detect suspicious behavior, such as modifications, or changes.	11.	<b>14.1 It should provide pre-defined, automated responses to events. Actions include alerting the administrator, logging the event.</b>
4.	<b>File and Registry Protection/ Lockdown.</b> 5.1 It should protect system files and registry entries from modification or deletion											
11.	<b>Smart Event Response.</b> 14.1 It should provide pre-defined, automated responses to events. Actions include alerting the administrator, disabling the user account, logging the event.											
4.	<b>File and Registry Protection.</b> Solution should be capable of monitoring critical operating system and application elements (files, directories, and registry keys) to detect suspicious behavior, such as modifications, or changes.											
11.	<b>14.1 It should provide pre-defined, automated responses to events. Actions include alerting the administrator, logging the event.</b>											
45	RFP Volume II, Clause 1.2.7 Security Components, Functional Requirement for Network Behavior Sensor, Point no 2.0/ Pg 98	<table border="1"> <tr> <td style="text-align: center;">2.</td> <td>Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for <b>8*1G</b>, with an additional dedicated Management Port. The ports should be available for use as per the proposed solution.</td> </tr> <tr> <td style="text-align: center;">8.</td> <td>Sensor should be able to get deployed in both, detection only mode. If require sensor <b>Inline modes &amp; Out of band monitoring</b> should be able to prevent the out breaks.</td> </tr> </table>	2.	Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for <b>8*1G</b> , with an additional dedicated Management Port. The ports should be available for use as per the proposed solution.	8.	Sensor should be able to get deployed in both, detection only mode. If require sensor <b>Inline modes &amp; Out of band monitoring</b> should be able to prevent the out breaks.	Modification	<p>The point no 2,8 to be read as:</p> <table border="1"> <tr> <td style="text-align: center;">2.</td> <td>Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for <b>4*1G</b>, with an additional dedicated Management Port. The ports should be available for use as per the proposed solution.</td> </tr> <tr> <td style="text-align: center;">8.</td> <td>Sensor should be able to get deployed in both <b>Inline modes / Out of band monitoring</b>, detection only</td> </tr> </table>	2.	Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for <b>4*1G</b> , with an additional dedicated Management Port. The ports should be available for use as per the proposed solution.	8.	Sensor should be able to get deployed in both <b>Inline modes / Out of band monitoring</b> , detection only
2.	Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for <b>8*1G</b> , with an additional dedicated Management Port. The ports should be available for use as per the proposed solution.											
8.	Sensor should be able to get deployed in both, detection only mode. If require sensor <b>Inline modes &amp; Out of band monitoring</b> should be able to prevent the out breaks.											
2.	Sensor should be able to provide throughput of 1 Gbps. Sensor should have interface support for <b>4*1G</b> , with an additional dedicated Management Port. The ports should be available for use as per the proposed solution.											
8.	Sensor should be able to get deployed in both <b>Inline modes / Out of band monitoring</b> , detection only											



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification										
				<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">                     mode. If require sensor should be able to prevent the out breaks                 </div> <p><b>Rest of specifications remain same for Functional Requirement for Network Behavior Sensor.</b></p>										
46	RFP Volume II, Clause 1.2.7 Security Components, Functional Requirement for Advanced Network Malware Protection, Point no 9/ Pg 100	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px; text-align: center; vertical-align: top;"><b>6.</b></td> <td><b>The solution must be able to analyze and scan files for advanced malware's in shared folders, with support for the following industry standard protocol like Common Internet File System (CIFS ) and NFS and should quarantine malicious files.</b></td> </tr> <tr> <td style="text-align: center; vertical-align: top;"><b>7.</b></td> <td><b>7. The proposed solution should be able to support</b>  <input type="checkbox"/> Selective file scanning  <input type="checkbox"/> Off box scanning of hard drive for advanced malware threats.  <input type="checkbox"/> should support continuous or incremental analysis and should have integrated</td> </tr> <tr> <td style="text-align: center; vertical-align: top;"><b>9.</b></td> <td><b>The proposed solution should have the ability to be deployed in the following modes:</b>  <ul style="list-style-type: none"> <li>• Out of –band mode</li> <li>• inline monitoring mode</li> <li>• Inline active blocking mode</li> </ul> </td> </tr> </table>	<b>6.</b>	<b>The solution must be able to analyze and scan files for advanced malware's in shared folders, with support for the following industry standard protocol like Common Internet File System (CIFS ) and NFS and should quarantine malicious files.</b>	<b>7.</b>	<b>7. The proposed solution should be able to support</b> <input type="checkbox"/> Selective file scanning <input type="checkbox"/> Off box scanning of hard drive for advanced malware threats. <input type="checkbox"/> should support continuous or incremental analysis and should have integrated	<b>9.</b>	<b>The proposed solution should have the ability to be deployed in the following modes:</b> <ul style="list-style-type: none"> <li>• Out of –band mode</li> <li>• inline monitoring mode</li> <li>• Inline active blocking mode</li> </ul>	Modification	<p><b>The point no 7, 9 to be read as:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30px; text-align: center; vertical-align: top;"><b>7.</b></td> <td><b>The clause to be read as:</b>                      The proposed solution should be able to support  <input type="checkbox"/> Selective file scanning  <input type="checkbox"/> should support continuous or incremental analysis and should have integrated</td> </tr> <tr> <td style="text-align: center; vertical-align: top;"><b>9.</b></td> <td><b>The proposed solution should have the ability to be deployed in the following modes:</b>  <ul style="list-style-type: none"> <li>• Out of –band mode / Inline active blocking mode</li> </ul> </td> </tr> </table> <p><b>The point no 6 stands deleted.</b></p> <p><b>Rest of specifications remain same for Functional Requirement for Advanced Network Malware Protection.</b></p>	<b>7.</b>	<b>The clause to be read as:</b> The proposed solution should be able to support <input type="checkbox"/> Selective file scanning <input type="checkbox"/> should support continuous or incremental analysis and should have integrated	<b>9.</b>	<b>The proposed solution should have the ability to be deployed in the following modes:</b> <ul style="list-style-type: none"> <li>• Out of –band mode / Inline active blocking mode</li> </ul>
<b>6.</b>	<b>The solution must be able to analyze and scan files for advanced malware's in shared folders, with support for the following industry standard protocol like Common Internet File System (CIFS ) and NFS and should quarantine malicious files.</b>													
<b>7.</b>	<b>7. The proposed solution should be able to support</b> <input type="checkbox"/> Selective file scanning <input type="checkbox"/> Off box scanning of hard drive for advanced malware threats. <input type="checkbox"/> should support continuous or incremental analysis and should have integrated													
<b>9.</b>	<b>The proposed solution should have the ability to be deployed in the following modes:</b> <ul style="list-style-type: none"> <li>• Out of –band mode</li> <li>• inline monitoring mode</li> <li>• Inline active blocking mode</li> </ul>													
<b>7.</b>	<b>The clause to be read as:</b> The proposed solution should be able to support <input type="checkbox"/> Selective file scanning <input type="checkbox"/> should support continuous or incremental analysis and should have integrated													
<b>9.</b>	<b>The proposed solution should have the ability to be deployed in the following modes:</b> <ul style="list-style-type: none"> <li>• Out of –band mode / Inline active blocking mode</li> </ul>													

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
47	RFP Volume II, Clause 1.2.3.4 Firewall Internet, Point no 7/ Pg 66	<table border="1" style="width: 100%;"> <tr> <td style="width: 20px; text-align: center;">7.</td> <td>VPN feature shall support: <ul style="list-style-type: none"> <li>Support for n-tiered X.509 certificate chaining</li> <li><b>Manual X.509 certificate enrollment (PKCS 10/7 support)</b></li> </ul> </td> </tr> </table>	7.	VPN feature shall support: <ul style="list-style-type: none"> <li>Support for n-tiered X.509 certificate chaining</li> <li><b>Manual X.509 certificate enrollment (PKCS 10/7 support)</b></li> </ul>	Modification	<p><b>The point no 7 to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 20px; text-align: center;">7.</td> <td>VPN feature shall support: <ul style="list-style-type: none"> <li><b>Support for n-tiered X.509 certificate chaining</b></li> </ul> </td> </tr> </table> <p><b>Rest of specifications remain same for 1.2.3.4</b></p>	7.	VPN feature shall support: <ul style="list-style-type: none"> <li><b>Support for n-tiered X.509 certificate chaining</b></li> </ul>
7.	VPN feature shall support: <ul style="list-style-type: none"> <li>Support for n-tiered X.509 certificate chaining</li> <li><b>Manual X.509 certificate enrollment (PKCS 10/7 support)</b></li> </ul>							
7.	VPN feature shall support: <ul style="list-style-type: none"> <li><b>Support for n-tiered X.509 certificate chaining</b></li> </ul>							
48	RFP Volume II, Clause 1.2.3.3 Internet Router, Point no 4 / Pg 62	<table border="1" style="width: 100%;"> <tr> <td style="width: 20px; text-align: center;">4.</td> <td>Interface Modules have/support <p>4.1</p> <p><b>4.2 8* 10/100/1000 baseTX Ethernet interfaces for LAN and WAN</b></p> <p>4.3 All the Serial ports should be for RS-232/V.35 interfaces</p> <p>4.4 Shall be able to support variety of other interfaces</p> </td> </tr> </table>	4.	Interface Modules have/support <p>4.1</p> <p><b>4.2 8* 10/100/1000 baseTX Ethernet interfaces for LAN and WAN</b></p> <p>4.3 All the Serial ports should be for RS-232/V.35 interfaces</p> <p>4.4 Shall be able to support variety of other interfaces</p>	Modification	<p><b>The point no 4 to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 20px; text-align: center;">4.</td> <td>Interface Modules have/support <p><b>4.1 4* 10/100/1000 baseTX Ethernet interfaces for WAN and 4 * 100/1000 BaseT for LAN</b></p> <p>4.2 All the Serial ports should be for RS-232/V.35 interfaces</p> <p>4.3 Shall be able to support variety of other interfaces</p> </td> </tr> </table> <p><b>Rest of specifications remain same for 1.2.3.3</b></p>	4.	Interface Modules have/support <p><b>4.1 4* 10/100/1000 baseTX Ethernet interfaces for WAN and 4 * 100/1000 BaseT for LAN</b></p> <p>4.2 All the Serial ports should be for RS-232/V.35 interfaces</p> <p>4.3 Shall be able to support variety of other interfaces</p>
4.	Interface Modules have/support <p>4.1</p> <p><b>4.2 8* 10/100/1000 baseTX Ethernet interfaces for LAN and WAN</b></p> <p>4.3 All the Serial ports should be for RS-232/V.35 interfaces</p> <p>4.4 Shall be able to support variety of other interfaces</p>							
4.	Interface Modules have/support <p><b>4.1 4* 10/100/1000 baseTX Ethernet interfaces for WAN and 4 * 100/1000 BaseT for LAN</b></p> <p>4.2 All the Serial ports should be for RS-232/V.35 interfaces</p> <p>4.3 Shall be able to support variety of other interfaces</p>							

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification								
49	RFP Volume II, Clause 1.2.3.5 Intrusion Prevention System - Internet, Point no 6 / Pg 68	<table border="1" style="width: 100%;"> <tr> <td style="width: 20px; text-align: center;">6.</td> <td>High Availability 6.1 6.2 “The device should support internal redundant power supply” <b>6.3 it should support active/passive and active/active</b></td> </tr> <tr> <td style="text-align: center;">8.</td> <td>Management and Monitoring Capabilities  <b>8.1 The IPS Systems should have a Management Console and, SSH and Web capabilities for basic configuration of remote telnet the device</b> 8.2 The IPS should have a dedicated port for Out-of-Band Management and should not use any traffic ports for the management purpose 8.3 The system should be able to support log file, Syslog/SDEE and snmp. 8.4 Shall support role based administration for various administrator and user levels. 8.5 “IPS should be ICSA/NSS/ EAL certified”</td> </tr> </table>	6.	High Availability 6.1 6.2 “The device should support internal redundant power supply” <b>6.3 it should support active/passive and active/active</b>	8.	Management and Monitoring Capabilities  <b>8.1 The IPS Systems should have a Management Console and, SSH and Web capabilities for basic configuration of remote telnet the device</b> 8.2 The IPS should have a dedicated port for Out-of-Band Management and should not use any traffic ports for the management purpose 8.3 The system should be able to support log file, Syslog/SDEE and snmp. 8.4 Shall support role based administration for various administrator and user levels. 8.5 “IPS should be ICSA/NSS/ EAL certified”	Modification	<p><b>The point no 6 to be read as:</b></p> <table border="1" style="width: 100%;"> <tr> <td style="width: 20px; text-align: center;">6.</td> <td>High Availability 6.1 “The device should support internal redundant power supply” <b>6.2 it should support active/passive</b> 4.3 Shall be able to support variety of other interfaces</td> </tr> <tr> <td style="text-align: center;">8.</td> <td><b>8.1 The IPS Systems should have a Management Console and SSH and Web capabilities for basic Configuration of the device.</b> 8.2 The IPS should have a dedicated port for Out-of-Band Management and should not use any traffic ports for the management purpose 8.3 The system should be able to support log file, Syslog/SDEE and snmp. 8.4 Shall support role based administration for various administrator and user levels. 8.5 “IPS should be ICSA/NSS/ EAL certified”</td> </tr> </table> <p><b>Rest of specifications remain same for 1.2.3.5</b></p>	6.	High Availability 6.1 “The device should support internal redundant power supply” <b>6.2 it should support active/passive</b> 4.3 Shall be able to support variety of other interfaces	8.	<b>8.1 The IPS Systems should have a Management Console and SSH and Web capabilities for basic Configuration of the device.</b> 8.2 The IPS should have a dedicated port for Out-of-Band Management and should not use any traffic ports for the management purpose 8.3 The system should be able to support log file, Syslog/SDEE and snmp. 8.4 Shall support role based administration for various administrator and user levels. 8.5 “IPS should be ICSA/NSS/ EAL certified”
6.	High Availability 6.1 6.2 “The device should support internal redundant power supply” <b>6.3 it should support active/passive and active/active</b>											
8.	Management and Monitoring Capabilities  <b>8.1 The IPS Systems should have a Management Console and, SSH and Web capabilities for basic configuration of remote telnet the device</b> 8.2 The IPS should have a dedicated port for Out-of-Band Management and should not use any traffic ports for the management purpose 8.3 The system should be able to support log file, Syslog/SDEE and snmp. 8.4 Shall support role based administration for various administrator and user levels. 8.5 “IPS should be ICSA/NSS/ EAL certified”											
6.	High Availability 6.1 “The device should support internal redundant power supply” <b>6.2 it should support active/passive</b> 4.3 Shall be able to support variety of other interfaces											
8.	<b>8.1 The IPS Systems should have a Management Console and SSH and Web capabilities for basic Configuration of the device.</b> 8.2 The IPS should have a dedicated port for Out-of-Band Management and should not use any traffic ports for the management purpose 8.3 The system should be able to support log file, Syslog/SDEE and snmp. 8.4 Shall support role based administration for various administrator and user levels. 8.5 “IPS should be ICSA/NSS/ EAL certified”											

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification		
50	RFP Volume II, Clause 1.2.3.8 Authentication, Authorization and Accounting / Pg 76	<p>22. Should support HTTP port allocation feature to configure the range of TCP ports used by the AAA system for administrative HTTP sessions.</p> <p>24. Lightweight Directory Access Protocol (LDAP) and Open Database Connectivity (ODBC) user authentication support</p>	Deletion	<p><b>Point no 22 stands deleted.</b></p> <p><b>Point no 24 to be read as:</b></p> <table border="1" style="margin-left: 20px;"> <tr> <td style="width: 20px; text-align: center;">24.</td> <td><b>Lightweight Directory Access Protocol (LDAP) user authentication support</b></td> </tr> </table> <p><b>Rest of point in remains same.</b></p>	24.	<b>Lightweight Directory Access Protocol (LDAP) user authentication support</b>
24.	<b>Lightweight Directory Access Protocol (LDAP) user authentication support</b>					
51	RFP Volume II, Clause 1.2.4 SDC Cloud EMS architecture, Security Capabilities, Point no ii, iii, x, xi / Pg 84	<p>ii. The Solution should be able to extend existing malware protection solution in SDC for Virtual machine.</p> <p>iii. The Solution should be able to provide existing Firewall protection for the virtual machine.</p> <p><b>x. The Solution must offer ability to Copy, convert, or migrate an image (P2V, V2V, V2P).</b></p> <p>xi. The Solution must offer ability to utilize existing Intrusion detection System / Intrusion Protection system to seamlessly extend into Virtualization environment</p>	Modification	<p><b>The point no ii, iii, x, xi to be read as:</b></p> <p>ii. The Solution should be able to extend malware protection solution in SDC for Virtual machine.</p> <p>iii. The Solution should be able to provide Firewall protection for the virtual machine.</p> <p><b>x. The Solution must offer ability to Copy, convert, or migrate an image (P2V, V2V).</b></p> <p>xi. The Solution must offer ability to utilize Intrusion detection System / Intrusion Protection system to seamlessly extend into Virtualization environment.</p> <p><b>Rest of specifications remain same under security capabilities.</b></p>		
52	RFP Volume II, Clause 1.2.4 SDC Cloud EMS architecture, Monitoring Capabilities, Point no ii / Pg 89	<p><b>ii. The Solution should be able to monitor key performance characteristics of the virtual resource (OS, RDBMS, Memory, Storage, Network etc.)</b></p>	Modification	<p><b>The point no ii to be read as:</b></p> <p><b>ii. The Solution should be able to monitor key performance characteristics of the virtual resource (OS, Memory, Storage, Network etc.)</b></p> <p><b>Rest of specifications remain same under monitoring capabilities.</b></p>		

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification		
53	RFP Volume II, Clause 1.2.4 SDC Cloud EMS architecture, Hypervisor, Point no ii / Pg 82	<b>ii.The Solution should be able to run various operating systems like windows client, windows server, Linux (RedHat, Suze Linux etc), solarisx86 and any other open source</b>	Modification	<p><b>The point no ii to be read as:</b></p> <p><b>ii.The Solution should be able to run various operating systems like windows client, windows server, Linux (RedHat, Suze Linux etc) and any other Linux based open source.</b></p> <p><b>Rest of specifications remain same under Hypervisor.</b></p>		
54	RFP Volume II, Clause 1.3.6 Bill of Quantity: Software Licenses, Software for application Server, Point no 2(c) / Pg 333	2 c) Application software has to be provided by bidder as a part of the solution along with the required software and licenses.	Deletion	<p><b>This point no 2 c) stands deleted.</b></p> <p><b>Rest of points remain same under 1.3.6</b></p>		
55	RFP Volume II, Clause 1.2.6 Functional requirement for Disaster Recovery Management Software, Point no 5 / Pg 93	<p><b>5 Support</b>  <b>The software must support major platforms including Linux, Windows, Solaris, HPUX and AIX</b></p> <p>The software must have inbuilt support for several popular databases including Oracle, MSSQL and DB2.</p> <p>The software must have inbuilt support for several replication products including Oracle Dataguard,</p>	Modification	<p><b>The point no 5 (Support) to be read as:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;"><b>5</b></td> <td> <p><b>Support</b>  <b>The software must support major platforms including Linux, Windows</b></p> <p>The software must have inbuilt support for several popular databases including Oracle, MSSQL and DB2.</p> </td> </tr> </table>	<b>5</b>	<p><b>Support</b>  <b>The software must support major platforms including Linux, Windows</b></p> <p>The software must have inbuilt support for several popular databases including Oracle, MSSQL and DB2.</p>
<b>5</b>	<p><b>Support</b>  <b>The software must support major platforms including Linux, Windows</b></p> <p>The software must have inbuilt support for several popular databases including Oracle, MSSQL and DB2.</p>					

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification				
		<p>MSSQL Native Replciation, HDS TrueCopy and HUR, EMC SRDF, HP Continuous Access among other.</p> <p>The software must support physical and virtual servers across primary and DR sites without any restrictions.</p>		<p>The software must have inbuilt support for several replication products including Oracle Dataguard, MSSQL Native Replciation, HDS TrueCopy and HUR, EMC SRDF, HP Continuous Access among other.</p> <p>The software must support physical and virtual servers across primary and DR sites without any restrictions.</p> <p><b>Rest of points remain same under 1.2.6</b></p>				
56	RFP Volume II, Clause 1.2.5 Host based Access Control System / Pg 89	1.2.5 Host Based Access Control System	Deletion	<b>Section 1.2.5 stands deleted</b>				
57	RFP Volume II, Clause 1.3.3 Bill of Quantity: Networking Components / Pg 327	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">12.</td> <td style="width: 40%;">Host Based Access Control System for 12 years servers with specifications as mentioned in Application server specifications 1.2.2.3</td> <td style="width: 10%;">No's</td> <td style="width: 45%; text-align: center;">1</td> </tr> </table>	12.	Host Based Access Control System for 12 years servers with specifications as mentioned in Application server specifications 1.2.2.3	No's	1	Deletion	<p><b>The point no 12 stands deleted.</b></p> <p><b>Rest of points remain same under 1.3.3</b></p>
12.	Host Based Access Control System for 12 years servers with specifications as mentioned in Application server specifications 1.2.2.3	No's	1					
58	RFP Volume II, Clause 1.3.1.3.1 UPS. Batteries	<p><b>Modes of Operation</b></p> <p>G. Regen Mode: The UPS rack system shall have the ability to perform self test for full rated capacity without using any external load banks. In this mode, UPS rectifier, inverter and static</p>	Modification	<p><b>The point G under 'Modes of Operation' shall be read as:</b></p> <p><b>Modes of Operation</b></p>				

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
	and Accessories, UPS module AC output / Pg 113	<p>bypass shall be tested up to full load capacity without any failure. Power consumption in this mode shall only be full load losses of UPS. This mode shall be possible to use with reserve batteries.</p> <p><b>Scalability &amp; Modularity</b> Each UPS rack system shall consist of hot swappable power modules with and scalable up to <b>259.2 kVA/kW</b> in each modular rack cabinet. Modularity design of the UPS system shall enable ease of service and upgradability or downgrade-ability of the UPS rack system without interruption to the whole system. Two (2) <b>UPS system can be paralleled to increase redundancy or capacity. Paralleling shall be done with the use of control cables only without any additional external synchronization boxes.</b></p> <p><b>UPS Module AC Output</b></p> <p>A. Voltage Stability: 1% steady state for balanced loads, 2% for 100% unbalanced loads.</p> <p>I. Voltage Distortion (at 400V, 100% rated load with crest factor 3:1):</p> <ul style="list-style-type: none"> <li>• <b>Less than 1% total harmonic distortion (THD) for linear loads</b></li> <li>• Less than 4% THD for 100% balanced non-linear loads (3:1 crest factor)</li> <li>• Less than 5% THD for 100% unbalanced non-linear loads (3:1 crest factor)</li> </ul> <p><b>Technical Specification of Isolation Transformer</b></p>		<p><b>G. Regen Mode: The UPS rack system shall have the ability to perform self test for full rated capacity without using any external load banks. In this mode, UPS rectifier, inverter and static bypass shall be tested up to full load capacity without any failure.</b> <b>Rest of points under Modes of Operation shall remain same.</b></p> <p><b>The point 'Scalability &amp; Modularity' shall be read as:</b></p> <p><b>Scalability &amp; Modularity</b> Each UPS rack system shall consist of hot swappable power modules with and scalable up to <b>216 kVA/kW</b> in each modular rack cabinet. Modularity design of the UPS system shall enable ease of service and upgradability or downgrade-ability of the UPS rack system without interruption to the whole system. Two (2) UPS system can be paralleled to increase redundancy or capacity. Paralleling shall be done with the use of control cables only without any additional external synchronization boxes.</p> <p><b>UPS Module AC Output</b></p> <p>A. Voltage Stability: 1% steady state for balanced loads, 3% for 100% unbalanced loads.</p> <p>I. Voltage Distortion (at 400V, 100% rated load with crest factor 3:1):</p> <ul style="list-style-type: none"> <li>• <b>Less than 2% total harmonic distortion (THD) for linear loads</b></li> <li>• Less than 4% THD for 100% balanced non-linear loads (3:1 crest factor)</li> <li>• Less than 5% THD for 100% unbalanced non-linear loads (3:1 crest factor)</li> </ul> <p><b>Rest of points under UPS Module AC output shall remain same.</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		Input Voltage : 415 Volt AC (Phase to Phase) Output Voltage : 415 V AC+/-1% (Phase to Phase) Frequency : 50 Hz. Input Connection : Delta Output Connection : Star Coupling Capacitance : Less than 0.01 pF C.M.N.R. : 100 db <b>Type of Cooling : Natural Oil Cooled</b> DC Galvanic Insulation : Over100Mega Ohms between any winding/winding To Ground Ambient temperature : -10C – 550C Transformer Ratio : 1.1		<b>Technical Specification of Isolation Transformer</b> Input Voltage : 415 Volt AC (Phase to Phase) Output Voltage : 415 V AC+/-1% (Phase to Phase) Frequency : 50 Hz. Input Connection : Delta Output Connection : Star Coupling Capacitance : Less than 0.01 pF C.M.N.R. : 100 db DC Galvanic Insulation : Over100Mega Ohms between any winding/winding To Ground Ambient temperature : -10C – 550C Transformer Ratio : 1.1 VI Electric strength : 2500 V AC for 120 sec.



**Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab**

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		VI Electric strength : 2500 V AC for 120 sec.  Insulation Resistance : More Than 100M Ohms.  Class of Insulation : Class 'F'  Losses : 3% - 5%  Duty Cycle : Continuous  Lamination : CRGO  Efficiency : Better than 98%		Insulation Resistance : More Than 100M Ohms.  Class of Insulation : Class 'F'  Losses : 3% - 5%  Duty Cycle : Continuous  Lamination : CRGO  Efficiency : Better than 98%  <b>Capacity of Isolation transformer shall be equal to the overall capacity of UPS from day 1.</b>  <b>Rest of points under 1.3.1.3.1 (UPS, Batteries and Accessories) shall remain same.</b>
59	RFP Volume II, Clause 1.3.1.12 Technical Specification – Integrated Building Management System SECTION – I, SYSTEM	<b>1. SYSTEM ARCHITECTURE</b> Enterprise Buildings Integrator platform has client/server architecture. It provides a scaleable system that accommodates configurations ranging from a small single-node system to an extended system with		<b>The point no 1 (System Architecture) shall be read as:</b> <b>2. SYSTEM ARCHITECTURE</b> Enterprise Buildings Integrator platform has client/server architecture. It provides a scaleable system that accommodates configurations ranging from a small single-node system to an extended system with multiple servers and Stations connected across LANs or WANs.

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
	ARCHITECTURE / Pg 186	<p>multiple servers and Stations connected across LANs or WANs.</p> <p><b>Distributed System Architecture</b> Enterprise Buildings Integrator platform Servers can also be connected together in a Distributed System Architecture, allowing very large or geographically distributed sites to be operated as a single system. Alternatively, this architecture allows autonomous Enterprise Buildings Integrator platform nodes to communicate alarms and cardholder information through a network with a minimum of engineering effort.</p> <p>A Distributed System Architecture enables multiple facilities to be operated in an efficient and consistent way across your entire organization without sacrificing the independence of each office.</p>		<p><b>Distributed System Architecture</b> Enterprise Buildings Integrator platform Servers can also be connected together in a Distributed System Architecture, allowing very large or geographically distributed sites to be operated as a single system. Alternatively, this architecture allows autonomous Enterprise Buildings Integrator platform nodes to communicate alarms and cardholder information through a network with a minimum of engineering effort.</p> <p>A Distributed System Architecture enables multiple facilities to be operated in an efficient and consistent way across your entire organization without sacrificing the independence of each office.</p> <p>In addition seamless system Integration, Enterprise Buildings Integrator platform provides an open system architecture which combines a variety of controllers, standard hardware devices, and communications interfaces into one, integrated, central system that maximizes the performance of your building or facility. Enterprise Buildings</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>In addition seamless system Integration, Enterprise Buildings Integrator platform provides an open system architecture which combines a variety of controllers, standard hardware devices, and communications interfaces into one, integrated, central system that maximizes the performance of your building or facility. Enterprise Buildings Integrator platform can integrate with the following subsystems:</p> <ul style="list-style-type: none"> <li>• Access controllers and access card readers</li> <li>• Security monitoring</li> <li>• HVAC monitoring and control</li> <li>• Life safety monitoring and control</li> <li>• Energy usage monitoring</li> <li>• Lighting control</li> <li>• <b>Analog CCTV systems</b></li> </ul>		<p>Integrator platform can integrate with the following subsystems:</p> <ul style="list-style-type: none"> <li>• Access controllers and access card readers</li> <li>• Security monitoring</li> <li>• HVAC monitoring and control</li> <li>• Life safety monitoring and control</li> <li>• Energy usage monitoring</li> <li>• Lighting control</li> <li>• <b>CCTV systems</b></li> <li>• LAN/WAN based Digital Video Manager</li> <li>• Industrial process controllers</li> <li>• Enterprise management systems</li> <li>• Time and attendance</li> <li>• Asset and people tracking</li> <li>• Maintenance management</li> <li>• Web, Internet and intranet pages and systems</li> <li>• Alarm paging and SNMP notification systems</li> </ul> <p><b>Rest of points shall remain same.</b></p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification		
		<ul style="list-style-type: none"> <li>LAN/WAN based Digital Video Manager</li> <li>Industrial process controllers</li> <li>Enterprise management systems</li> <li>Time and attendance</li> <li>Asset and people tracking</li> <li>Maintenance management</li> <li>Web, Internet and intranet pages and systems</li> <li>Alarm paging and SNMP notification systems</li> </ul>				
60	RFP Volume II, Clause 1.3.1.20, Technical Specifications – Passive Networking, Specification of Server Racks/ Pg 280	<table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">11.</td> <td>1 Console (User), 4 Port Intel Based KVM Switch with in-built Cables of 1.8mtrs (Compatible with PS/2 Based Servers only) (with Speaker Support). (Palm Top Unit) (1 No Per rack)</td> </tr> </table>	11.	1 Console (User), 4 Port Intel Based KVM Switch with in-built Cables of 1.8mtrs (Compatible with PS/2 Based Servers only) (with Speaker Support). (Palm Top Unit) (1 No Per rack)	Deletion	<p><b>The point no 11 under Specification of Server racks stands deleted.</b></p> <p><b>All other points remain same.</b></p>
11.	1 Console (User), 4 Port Intel Based KVM Switch with in-built Cables of 1.8mtrs (Compatible with PS/2 Based Servers only) (with Speaker Support). (Palm Top Unit) (1 No Per rack)					

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification								
61	RFP Volume II, Clause 1.3.5, Bill of Quantity: Platform and Storage / Pg 330	<p><b>1.3.5 Bill Of Quantity: Platform and Storage</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">12.</td> <td style="width: 40%;">IP KVM</td> <td style="width: 20%; text-align: center;">Nos</td> <td style="width: 30%; text-align: center;">5</td> </tr> </table>	12.	IP KVM	Nos	5	Modification	<p><b>The point no 12 of 1.3.5 shall be read as:</b></p> <p><b>1.3.5 Bill Of Quantity: Platform and Storage</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">12.</td> <td style="width: 40%;">IP KVM</td> <td style="width: 20%; text-align: center;">Nos</td> <td style="width: 30%; text-align: center;">2</td> </tr> </table> <p><b>All others point of 1.3.5 shall remain same.</b></p>	12.	IP KVM	Nos	2
12.	IP KVM	Nos	5									
12.	IP KVM	Nos	2									
62	RFP Volume II, Clause 1.3.2.1, Bill of Quantity: Electrical System / Pg 295	1.3.2.1 Bill of Quantity: Electrical System	Modification	<p><b>The Rating of Diesel Generator in S.No of 1.3.2.1 Bill of Quantity: Electrical System shall be read as 306.25 KVA instead of 348KVA</b></p>								
63	RFP Volume II, Clause 1.3.1.15 <b>Surveillance CCTV System</b> / Pg 254	<p><b>1.3.1.15 Surveillance CCTV System</b></p> <p>The High Resolution DSP Color Mini Dome Camera shall include, as a minimum, the following features/functions/specifications:</p> <p style="margin-left: 40px;">i. The High Resolution DSP Color Mini Dome Camera shall incorporate a 1/3-inch Charge-coupled device (CCD), and a minimum of 530 TV lines of resolution utilizing an effective pixel</p>	Modification	<p><b>The Clause 1.3.1.15 shall be read as:</b></p> <p><b>1.3.1.15 Surveillance CCTV System</b></p> <p><b>The Complete Surveillance CCTV System shall be IP based.</b> The High Resolution DSP Color Mini Dome Camera shall include, as a minimum, the following features/functions/specifications. The complete</p> <p style="margin-left: 40px;">i. The High Resolution DSP Color Mini Dome Camera shall incorporate a 1/3-inch Charge-coupled device (CCD), and a minimum of 530 TV lines of resolution utilizing an effective pixel count of no less than 768 (H) x 494 (V) NTSC, 752 (H) x 582 (V) PAL.</p>								

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>count of no less than 768 (H) x 494 (V) NTSC, 752 (H) x 582 (V) PAL.</p> <p>ii. The High Resolution DSP Color Mini Dome Camera shall provide excellent color performance in extremely low light, down to 0.1 lux @ F1.2 (30IRE).</p> <p>iii. The High Resolution DSP Color Mini Dome Camera shall have an internal amplifier that applies gain to the signal from the CCD. The amplifier must operate when there is insufficient light in the scene to produce an acceptable video output level, and must only apply as much gain as is necessary. The camera shall incorporate one level of automatic gain Compensation (AGC), allowing the user to achieve the optimal balance of noise and low light performance in demanding environments.</p>		<p>ii. The High Resolution DSP Color Mini Dome Camera shall provide excellent color performance in extremely low light, down to 0.1 lux @ F1.2 (30IRE).</p> <p>iii. The High Resolution DSP Color Mini Dome Camera shall have an internal amplifier that applies gain to the signal from the CCD. The amplifier must operate when there is insufficient light in the scene to produce an acceptable video output level, and must only apply as much gain as is necessary. The camera shall incorporate one level of automatic gain Compensation (AGC), allowing the user to achieve the optimal balance of noise and low light performance in demanding environments.</p> <p>iv. The High Resolution DSP Color Mini Dome Camera shall support the use of Auto Iris/ Direct Drive lens connected to the camera via 4-pin molex socket located from the inside of the camera housing. The camera must provide DC power drive signal to the lens. The camera must provide power to the lens. Iris level controls are Tact Switches accessible from the front of the camera.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>iv. The High Resolution DSP Color Mini Dome Camera shall support the use of Auto Iris/ Direct Drive lens connected to the camera via 4-pin molex socket located from the inside of the camera housing. The camera must provide DC power drive signal to the lens. The camera must provide power to the lens. Iris level controls are Tact Switches accessible from the front of the camera.</p> <p>v. The High Resolution DSP Color Mini Dome Camera shall support the use of Fixed lens, focal length is 3.6mm, each.</p> <p>vi. The power consumption of the High Resolution DSP Color Mini Dome Camera shall be no more than 1 watt. (12VDC power supply)</p> <p>vii. The High Resolution DSP Color Mini Dome Camera shall have a signal to noise ratio of 48 dB with the AGC off.</p>		<p>v. The High Resolution DSP Color Mini Dome Camera shall support the use of Fixed lens, focal length is 3.6mm, each.</p> <p>vi. The power consumption of the High Resolution DSP Color Mini Dome Camera shall be no more than 1 watt. (12VDC power supply)</p> <p>vii. The High Resolution DSP Color Mini Dome Camera shall have a signal to noise ratio of 48 dB with the AGC off.</p> <p>viii. The High Resolution DSP color Mini Dome Camera shall incorporate auto-tracking white balance to constantly monitor the light and adjust its color. It has a color temperature range of 2,500K to 8,000 K.</p> <p>ix. To allow the image to be viewed properly on a standard monitor, the High Resolution DSP Color Mini Dome Camera's default gamma value must be 0.45.</p> <p>x. Camera should be CE/FCC certified</p> <p><b>II. PTZ Speed Dome Camera</b></p> <p><b>1. GENERAL REQUIREMENTS</b></p> <ul style="list-style-type: none"> <li>• The product specified shall be a high speed domed camera system available in pendant or suspended</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>viii. The High Resolution DSP color Mini Dome Camera shall incorporate auto-tracking white balance to constantly monitor the light and adjust its color. It has a color temperature range of 2,500K to 8,000 K.</p> <p>ix. To allow the image to be viewed properly on a standard monitor, the High Resolution DSP Color Mini Dome Camera's default gamma value must be 0.45.</p> <p>x. Camera should be CE/FCC certified</p> <p><b>I. PTZ Speed Dome Camera</b></p> <p><b>1. GENERAL REQUIREMENTS</b></p> <ul style="list-style-type: none"> <li>• The product specified shall be a high speed domed camera system available in pendant or suspended ceiling mounted versions (select required Housing) designed for</li> </ul>		<p>ceiling mounted versions (select required Housing) designed for indoor and outdoor surveillance applications. The camera system consists of an integrated Super HAD color CCD camera with a ¼-inch imager and a motorized lens which can expand from 3.6mm to 126mm to make a 35X auto-iris, auto-focus zoom lens; a variable/high speed, 360° pan/tilt units; and an intelligent, integral receiver/driver with RS485/422. Camera should be CE/FCC certified.</p> <ul style="list-style-type: none"> <li>• The camera shall have built-in multi protocol for easy interface with DVR or Matrix switcher systems. It should also support selectable cameras address at least up to 999.</li> <li>• The camera shall be compatible with the Switcher/Controller variable speed keyboards.</li> <li>• The camera shall be equipped with an optical zoom lens of 3.6mm to 126mm and 12x digital zoom facility. To ensure optimal zoom control, the</li> </ul>



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>indoor and outdoor surveillance applications. The camera system consists of an integrated Super HAD color CCD camera with a ¼-inch imager and a motorized lens which can expand from 3.6mm to 126mm to make a 35X auto-iris, auto-focus zoom lens; a variable/high speed, 360° pan/tilt units; and an intelligent, integral receiver/driver with RS485/422. Camera should be CE/FCC certified.</p> <ul style="list-style-type: none"> <li>The camera shall have built-in multi protocol for easy interface with DVR or Matrix switcher systems. It should also support selectable cameras address at least up to 999.</li> </ul>		<p>camera shall provide a facility of variable speed panning and the panning speed should be 0.5deg to 90deg/sec and turbo speed of 360 deg/sec; for better tracking of the subject by the operator.</p> <ul style="list-style-type: none"> <li>The camera shall allow the storage of up to 240 preset scenes with each preset programmable for 16 character titles. Eight (8) guard tours shall be available to consecutively display each of the preset scenes for a programmed dwell time. Also a facility of storing 4 user control patterns of 240secs each in the memory.</li> <li>The camera shall Alarm inputs facility to interface with external devices etc as per the application. There should be minimum 8 alarm inputs and 2 alarm programmable outputs.</li> <li>The camera shall be offered in suspended ceiling or pendant mounted indoor or outdoor versions as required by the application. Outdoor mount should have an option of heater and blower with IP66 protection.</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<ul style="list-style-type: none"> <li>The camera shall be compatible with the Switcher/Controller variable speed keyboards.</li> <li>The camera shall be equipped with an optical zoom lens of 3.6mm to 126mm and 12x digital zoom facility. To ensure optimal zoom control, the camera shall provide a facility of variable speed panning and the panning speed should be 0.5deg to 90deg/sec and turbo speed of 360 deg/sec; for better tracking of the subject by the operator.</li> <li>The camera shall allow the storage of up to 240 preset scenes with each preset programmable for 16 character titles. Eight (8) guard tours shall be available to consecutively display each of the</li> </ul>		<p><b>2. CAMERA SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>a. Imager: ¼ inch Super HAD color CCD (PAL: 752H x 582V)</li> <li>b. Horizontal Resolution: 470 TVL</li> <li>c. Lens: 35x optical zoom with auto focus (3.6 mm to 126 mm) Digital Zoom: 12x</li> <li><b>d. Ethernet: RJ-45 10/100 BASE-TX</b></li> </ul> <p><b>3. ELECTRICAL SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>e. Power: 22~30 VAC, 24 VAC Normal, 850mA, Built-in power line surge circuit</li> <li>f. Video output: 1.0Vp-p ± 0.1Vp-p, 75 ohms.</li> <li>g. Sensitivity: 1.0lx (30IRE), 0.1lx (IR Filter OFF), 0.001lx (IR Filter ON, 256 Fields), 0.0001lx (IR Filter OFF, 256 Fields)</li> <li>h. Signal to Noise Ratio: Greater than 50 dB.</li> </ul> <p><b>4. MECHANICAL SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>a. Weight: 1700g</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>preset scenes for a programmed dwell time. Also a facility of storing 4 user control patterns of 240secs each in the memory.</p> <ul style="list-style-type: none"> <li>The camera shall Alarm inputs facility to interface with external devices etc as per the application. There should be minimum 8 alarm inputs and 2 alarm programmable outputs.</li> <li>The camera shall be offered in suspended ceiling or pendant mounted indoor or outdoor versions as required by the application. Outdoor mount should have an option of heater and blower with IP66 protection.</li> </ul> <p style="text-align: center;"><b>2. CAMERA SPECIFICATIONS</b></p>		<p>b. Pan: Turbo speed 360°/sec; 0°~90°/sec variable speed pan;</p> <p>c. Tilt: Degree 0°~90°, Speed 0°~90°/sec according to zoom ratio</p> <p>d. Pre-position speed: 380°/sec.</p> <p><b>5. ENVIRONMENTAL SPECIFICATIONS</b></p> <p>d. Humidity: 0% to 90% RH non-condensing.</p> <p>e. Operating temperature: Indoor: 0°C to +50°C; Outdoor:-40°C to +50°C with housing</p> <p>f. Storage temperature: -20°C to +60°C</p> <p><b>6. Color Monitor</b></p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>21 inch flat square picture tube</li> <li>450 TVL</li> <li>Convenient front panel push-button controls</li> <li>On-screen display/setup menus (OSD)</li> <li>Heavy-duty metal cabinet</li> <li>NTSC/PAL (auto-sensing)</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>a. Imager: ¼ inch Super HAD color CCD (PAL: 752H x 582V)</p> <p>b. Horizontal Resolution: 470 TVL</p> <p>c. Lens: 35x optical zoom with auto focus (3.6 mm to 126 mm) Digital Zoom: 12x</p> <p><b>3. ELECTRICAL SPECIFICATIONS</b></p> <p>a. Power: 22~30 VAC, 24 VAC Normal, 850mA, Built-in power line surge circuit</p> <p>b. Video output: 1.0Vp-p ± 0.1Vp-p, 75 ohms.</p> <p>c. Sensitivity: 1.0lx (30IRE), 0.1lx (IR Filter OFF), 0.001lx (IR Filter ON, 256 Fields), 0.0001lx (IR Filter OFF, 256 Fields)</p> <p>d. Signal to Noise Ratio: Greater than 50 dB.</p> <p><b>4. MECHANICAL SPECIFICATIONS</b></p>		<ul style="list-style-type: none"> <li>• Video loop-through with automatic termination</li> <li>• Supports two composite and one S-VHS video input (looping)</li> <li>• Universal power supply</li> <li>• Audio Input/Output- 2 channels</li> <li>• Switchable overscan and underscan</li> <li>• Available in black and cool grey cabinet colors</li> </ul> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Picture Tube: 21 inch (53 cm) flat square tube</li> <li>• Resolution: Horizontal: 450 TV lines</li> <li>• Video Standard: NTSC/PAL (automatically detects)</li> <li>• Phosphor: P22</li> <li>• Dot Pitch: In-line 0.71 mm stripe</li> <li>• Defection: 90° angle</li> </ul> <p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power Source: 90 to 254 VAC 50 Hz or 60 Hz</li> <li>• Power Consumption: 80 Watts</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>a. Weight: 1700g</p> <p>b. Pan: Turbo speed 360°/sec; 0°~90°/sec variable speed pan;</p> <p>c. Tilt: Degree 0°~90°, Speed 0°~90°/sec according to zoom ratio</p> <p>d. Pre-position speed: 380°/sec.</p> <p><b>5. ENVIRONMENTAL SPECIFICATIONS</b></p> <p>a. Humidity: 0% to 90% RH non-condensing.</p> <p>b. Operating temperature: Indoor: 0°C to +50°C; Outdoor:-40°C to +50°C with housing</p> <p>c. Storage temperature: -20°C to +60°C</p> <p><b>6. Color Monitor</b></p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• 21 inch flat square picture tube</li> <li>• 450 TVL</li> </ul>		<ul style="list-style-type: none"> <li>• Power Supply: NEMA 5-15P, UL</li> <li>• AC Input Connector: IEC 320</li> <li>• Scanning Frequency</li> <li>• Horizontal: 15.75 KHz (NTSC); 15.625 KHz (PAL)</li> </ul> <p><b>Digital Video Recorder</b></p> <p><b>Stand Alone Digital Video Recorder</b></p> <ul style="list-style-type: none"> <li>• <b>16 video input channels</b></li> <li>• 1 channel audio recording &amp; playback</li> <li>• Recording, Playback, Back-up, Network recording, and Network playback at the same time (Pentaplex)</li> <li>• Total 480/400 ips (NTSC/PAL) recording speed for recording speed</li> <li>• Total 480/400 fps (NTSC/PAL) display speed</li> <li>• Built-in splitter for split screen monitoring (1/4/ 9/13/16 split mode)</li> <li>• Max. 4TB storage capacity (Through IEEE 1394 port for external HDD)</li> <li>• Intelligent file system for managing event recording data</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<ul style="list-style-type: none"> <li>• Convenient front panel push-button controls</li> <li>• On-screen display/setup menus (OSD)</li> <li>• Heavy-duty metal cabinet</li> <li>• NTSC/PAL (auto-sensing)</li> <li>• Video loop-through with automatic termination</li> <li>• Supports two composite and one S-VHS video input (looping)</li> <li>• Universal power supply</li> <li>• Audio Input/Output- 2 channels</li> <li>• Switchable overscan and underscan</li> <li>• Available in black and cool grey cabinet colors</li> </ul> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>• Picture Tube: 21 inch (53 cm) flat square tube</li> </ul>		<p>DVR supports 16 video channels. Video, Audio, and Text Event-Logs are digitized and stored on two internal hard-drives. Using a '<b>H.264 Algorithm,</b>' average file size is 1-5KB while still maintaining clarity high enough for facial-recognition. In addition, <b>compressed images</b> are impossible to manipulate. DVRs process analog video into crisp, clear, and court-admissible pictures that are up to 500% smaller than comparable to JPEG images. It also allows users to record and playback audio for one channel. With 'Quick Setup', DVR can be setup and begin recording in 5 minutes. It starts to record as soon as power is supplied and CCTV cameras are connected. The default settings offer qualified and efficient way without the hassle of confusing menus. Equipped with <b>two IEEE 1394 ports (Fire-Wire), 100Base TX</b> can expand its recording capacity up to 4TB easily. Windows' FAT32 formatted HDD is compatible with DVR. The data can be simply backed up by connecting the HDD to the PC to review critical images. And with one USB port, user can copy small sized images.</p>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<ul style="list-style-type: none"> <li>• Resolution: Horizontal: 450 TV lines</li> <li>• Video Standard: NTSC/PAL (automatically detects)</li> <li>• Phosphor: P22</li> <li>• Dot Pitch: In-line 0.71 mm stripe</li> <li>• Defection: 90° angle</li> </ul> <p><b>Electrical</b></p> <ul style="list-style-type: none"> <li>• Power Source: 90 to 254 VAC 50 Hz or 60 Hz</li> <li>• Power Consumption: 80 Watts</li> <li>• Power Supply: NEMA 5-15P, UL</li> <li>• AC Input Connector: IEC 320</li> <li>• Scanning Frequency</li> <li>• Horizontal: 15.75 KHz (NTSC); 15.625 KHz (PAL)</li> </ul> <p><b>CAMERA SPECIFICATIONS</b></p> <p>a. Imager: . inch Super HAD color CCD (PAL: 752H x 582V)</p> <p>b. Horizontal Resolution: 470 TVL</p> <p>c. Lens: 35x optical zoom with auto focus (3.6 mm to 126 mm)</p> <p>Digital Zoom: 12x</p>		<ul style="list-style-type: none"> <li>• ATM/ POS transaction text information recording and search with corresponding video</li> <li>• 16 sensor inputs and 4 alarm outputs</li> <li>• Built-in hardware motion detection (64- division comparison)</li> <li>• Back-up with IEEE 1394(FiWi)</li> <li>• PTZ Control (Preset support) via RS 232 or RS 485/RS422</li> <li>• User-friendly 32bit True-color Graphic OSD Menu</li> <li>• Dynamic IP (DHCP, Floating IP) support</li> <li>• ptimized compression: 1-5KB (Average file size with standard image quality)</li> </ul> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Embedded Linux OS for excellent stability and reliability</li> <li>• IR remote controller (User can control PTZ with remote controller)</li> </ul>

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p><b>Digital Video Recorder</b></p> <p><b>Stand Alone Digital Video Recorder</b></p> <ul style="list-style-type: none"> <li>• 16 analog video input channels</li> <li>• 1 channel audio recording &amp; playback</li> <li>• Recording, Playback, Back-up, Network recording, and Network playback at the same time (Pentaplex)</li> <li>• Total 480/400 ips (NTSC/PAL) recording speed for recording speed</li> <li>• Total 480/400 fps (NTSC/PAL) display speed</li> <li>• Built-in splitter for split screen monitoring (1/4/ 9/13/16 split mode)</li> <li>• Max. 4TB storage capacity (Through IEEE 1394 port for external HDD)</li> <li>• Intelligent file system for managing event recording data</li> </ul>		



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<p>DVR supports 16 analog video channels. Video, Audio, and Text Event-Logs are digitized and stored on two internal hard-drives. Using a '<b>H.264 Algorithm</b>,' average file size is 1-5KB while still maintaining clarity high enough for facial-recognition. In addition, <b>compressed images</b> are impossible to manipulate. DVRs process analog video into crisp, clear, and court-admissible pictures that are up to 500% smaller than comparable to JPEG images. It also allows users to record and playback audio for one channel. With 'Quick Setup', DVR can be setup and begin recording in 5 minutes. It starts to record as soon as power is supplied and CCTV cameras are connected. The default settings offer qualified and efficient way without the hassle of confusing menus. Equipped with two IEEE 1394 ports (Fire-Wire), can expand its recording capacity up to 4TB easily. Windows' FAT32 formatted HDD is compatible with DVR. The data can be simply backed up by connecting the HDD to the PC to review critical images. And with one USB port, user can copy small sized images.</p>		

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
		<ul style="list-style-type: none"> <li>• ATM/ POS transaction text information recording and search with corresponding video</li> <li>• 16 sensor inputs and 4 alarm outputs</li> <li>• Built-in hardware motion detection (64- division comparison)</li> <li>• Back-up with IEEE 1394(FiWi)</li> <li>• PTZ Control (Preset support) via RS 232 or RS 485/RS422</li> <li>• User-friendly 32bit True-color Graphic OSD Menu</li> <li>• Dynamic IP (DHCP, Floating IP) support</li> <li>• ptimized compression: 1-5KB (Average file size with standard image quality)</li> </ul> <p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Embedded Linux OS for excellent stability and reliability</li> <li>• IR remote controller (User can control PTZ with remote controller)</li> </ul>		

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

Sr	Reference in RFP	As appearing in the Original Published RFP	Change Category (Addition/ Deletion/ Modification)	Addition/ Modification
64	RFP Volume II, Clause 1.2.2.9, IP KVM / Pg 54	1.2.2.9 IP KVM	Modification	<b>Please refer Annexure 'I' to Corrigendum</b>

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

## Annexure 'A' To Corrigendum

### Format for Bank Guarantee

[insert: **Bank's Name, and Address of Issuing Branch or Office**]

**Beneficiary:** Punjab State e-Governance Society (PSeGS), Department of Governance Reforms, SCO 162-164, Sector:34-A, Chandigarh

**Date:** [insert: **date**]

**BID GUARANTEE No.:** [insert: **Bid Guarantee Number**]

We have been informed that [insert: **name of the Bidder**] (hereinafter called "the Bidder") has submitted to you its bid dated [insert: **bid date**] (hereinafter called "the Bid") for selection and appointment of Data Center Operator in State of Punjab.

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee, and that the bid guarantee automatically covers any alternative bids included in the Bid, if the Bidder is permitted to offer alternatives and does so.

At the request of the Bidder, we [insert: **name of Bank**] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [insert: **amount in figures**] ([insert: **amount in words**]) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- a. has withdrawn the Bid (or any parts of it) during the period of bid validity specified by the Bidder in the Bid Submission Form or any extension of the period of bid validity which the Bidder subsequently agreed to; or
- b. having been notified of the acceptance of the Bid by you during the period of bid validity, (i) failed or refused to execute the Contract Agreement, or (ii) failed or refused to furnish the performance security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire:

- (a) if the Bidder is the successful bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; or
- (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful bidder; or (ii) twenty-eight days after the expiration of the Bid's validity.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

---

[Signature(s)]

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

## Annexure 'B' To Corrigendum

### 8.5 Format 5 - Technical Bid Letter

To

<NAME & Address>

Sir/ Madam,

Subject: Appointment of an Agency for Supply, Installation, Configuration, Operations and Maintenance of physical and IT infrastructure at the State Data Center

Reference: Tender No: <TENDER REFERENCE NUMBER> Dated <DD/MM/YYYY>

We, the undersigned Bidders, having read and examined in detail all the Tender documents do hereby propose to provide the services as specified in the Tender document number <TENDER REFERENCE NUMBER> Dated <DD/MM/YYYY> along with the following:

#### **1. EARNEST MONEY DEPOSIT (EMD)**

We have an uploaded SCAN copy of earnest Money Deposit (EMD) of Rs. 40 Lacs in the form of Bank Guarantee from scheduled bank in the prescribed format at the time of bid submission. The original paper copy of the EMD bank guarantee shall be submitted to PSeGS within two days of the bid submission. This EMD is liable to be forfeited in accordance with the provisions of the Section III - General Conditions of the Contract.

#### **2. DEVIATIONS**

We declare that all the services shall be performed strictly in accordance with the Tender documents except for the variations, assumptions and deviations, all of which have been detailed out exhaustively in the following statements, irrespective of whatever has been stated to the contrary anywhere else in our Tender:

Statement of Deviations from Tender Terms and Conditions (Format 7)

Further we agree that additional conditions or assumptions, if any, found in the Tender documents, other than those stated in deviation schedule, shall not be given effect to.

#### **CONTRACT PERFORMANCE GUARANTEE BOND**

We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed in Volume II, Annexure III - Performa and as per Section IV - General Conditions of Contract.

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that our bid is binding on us and that you are not bound to accept a bid you receive.

Thanking you,

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

\_\_\_\_\_  
Signature of Bidder (with official seal)

Date

Name

Designation

Address

Telephone

Fax

E-mail address

Details of Enclosures:

**Annexure 'C' To Corrigendum**

**8.9 Format 9: Technical Solution**

8.9.1 The Bidder is required to describe the proposed Technical Solution in this section. Following should be captured in the explanation:

- I. Clear articulation and description of the design and technical solution and various components including make of equipment or sizing of infrastructure (including diagrams and calculations wherever applicable)
- II. Extent of compliance to technical requirements specified in the scope of work.
- III. Technical Design and clear articulation of benefits to Punjab State EGovernance Society, Punjab of various components of the solution vis-à-vis other options available.
- IV. Strength of the Bidder to provide services including examples or case-studies of similar solutions deployed for other clients.

8.9.2 The Bidder should provide detailed design and sizing calculation for the following listing all assumptions that have been considered:

**8.9.2.1 Physical Components Design**

- I. Data center Space and Floor layout along with Number of Racks and their design in the Data Center.
- II. Data Center overhead layout including: Cabling, Pipes and Ducting Plan
- III. Electrical Requirements
- IV. Cooling and Environmental Control requirements
- V. Fire Prevention and Suppression along with detailed layout of zone-wise fire sensors
- VI. Data Center Surveillance and Security along with detailed layout of CCTV and access control devices.
- VII. BMS System design

**8.9.2.2 IT Components design**

Approach & Methodology for Installation & Configuration of:

- a. Computing (Servers, OS, Databases etc.) infrastructure
- b. Network infrastructure
- c. Security infrastructure
- d. Applications
- e. Storage infrastructure
- f. Cloud EMS
- g. Cloud Infrastructure and modules.
- h. Help Desk

**8.9.2.3 Operations & Maintenance**

- a. Help Desk Services
  - i. Escalation Plan
  - ii. Implementation of ITIL, BS7799, ISO 27001 etc best practices
- b. System Operations, Maintenance & Management
- c. System /Server/ Storage /Database /Network / Cloud / Security Administration

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

and Management

- d. Performance Management
- e. Cloud EMS
- f. Backup & Restoration
- g. DR Drill and Business Continuity

8.9.2.4 Approach & Methodology for Commissioning of complete Data Center.

8.9.2.5 Approach & Methodology for installation of the IT infrastructure hosted by user departments.

8.9.2.6 Adherence to Best practices like ISO, ITIL, BS7799, BS15000 etc.

8.9.2.7 Detailed project plan with timelines, resource allocation, milestones etc. for supply, installation and commissioning of the physical and IT components for the State Data Center.



# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

## Annexure 'D' To Corrigendum

8.1 Format 1 – Pre-Qualification Bid Letter

Date: dd/mm/yyyy

To,

The Member Secretary

Punjab State e-Governance Society (PSEGS)

Department of Governance Reform, Punjab

S.C.O. 162-164, Sector 34-A, Chandigarh

Fax: 0172 – 2600971

**Reference:** Tender Number: .....Dated: dd/mm/yyyy

Sir,

We hereby declare, that:

- i. We are the authorized agents of the manufacturers of the DC equipment proposed in our solution.
- ii. We are equipped with adequate maintenance and service facilities within India for supporting the offered equipment. Our maintenance and service facilities are open for inspection by representatives of Tendering Authority/Government of Punjab.

We hereby offer to supply the equipment and provide the services at the prices and rates mentioned in the attached commercial bid.

In the event of acceptance of our bid, we do hereby undertake:

- i. To supply the equipment and commence services as stipulated in the schedule of delivery forming a part of the attached technical bid.
- ii. To undertake the project for a period as specified in the bid document.
- iii. We affirm that the prices quoted are inclusive of delivery, installation, and commissioning charges VAT/ST, CST and all other levies etc.

We enclose herewith the complete Pre qualification Bid as required by you. This includes:

1. Bid particulars with the Bid Letter
2. Proposed Network architecture, detailed technical solution, details of equipment and services offered in Technical Bid.
3. Proposed Project Plan and Implementation Schedule in Technical Bid.

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

4. Statement of deviation from requirement specifications in Technical Bid.
5. Statement of deviation from tender terms and conditions in Technical bid.
6. Schedule of delivery
7. Comprehensive Warranty
8. Manufacturer's authorization form(s)

We agree to abide by our offer for a period of 180 days from the last date of submission of commercial bid prescribed by PSeGS on the behalf of Govt. of Punjab and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender. We do hereby undertake to provision as per these terms and conditions.

- i. The deviations from the requirement specifications of tendered items and schedule of requirements are only those mentioned in section

*OR (Strike out whatever is not applicable)*

- ii. There are no deviations from the requirement specifications of tendered items and schedule of requirements.

- iii. The deviations from the terms and conditions of the tender are only those mentioned in section

*OR (Strike out whatever is not applicable)*

- iv. There are no deviations from the terms and conditions of the tender.

We hereby certify that the Bidder is a Directorate and the person signing the tender is the constituted attorney.

We have furnished EMD in the form of Bank Guarantee from scheduled bank as per the prescribed format. A Scan copy of the EMD Bank guarantee is submitted online at the time of bid submission. The original paper copy of the EMD bank guarantee shall be submitted to PSeGS within two days of the bid submission.

We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and notification of award of contract, shall constitute a binding contract between us.

\_\_\_\_\_  
**Signature of Bidder (with official seal)**

**Date**

\_\_\_\_\_  
**Name**

\_\_\_\_\_  
**Designation**

\_\_\_\_\_  
**Address**

\_\_\_\_\_  
**Telephone**

**Corrigendum to Request for Proposal (RFP) for State Data Centre  
(SDC) Project Punjab**

---

Fax \_\_\_\_\_

E-mail address \_\_\_\_\_

Details of Enclosures:

- 1.
- 2.

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

## Annexure 'D' To Corrigendum

### 10.1 Format 20 - Commercial Bid Letter

To

<NAME & Address OF CONTACT PERSON >

Sir/ Madam,

**Subject:** Appointment of an Agency for Supply, Installation, Configuration, Operations and Maintenance of physical & IT components for State Data Center Reference: Tender No: <TENDER REFERENCE NUMBER> Dated <DD/MM/YYYY>

We, the undersigned Bidder, having read and examined in detail all the Tender documents in respect of Appointment of an Agency for Supply, Installation, Configuration, Operations and Maintenance of Physical & IT Infrastructure Components for State Data Center do hereby propose to provide services as specified in the Tender documents number <TENDER REFERENCE NUMBER> Dated <DD/MM/YYYY>

#### 1. PRICE AND VALIDITY

- a. All the prices mentioned in our Tender are in accordance with the terms as specified in the Tendered documents. All the prices and other terms and conditions of this Tender are valid for a period of 180 calendar days from the date of opening of the Tenders
- b. We hereby confirm that our Tender prices include all taxes. However, all the taxes are quoted separately under relevant sections.
- c. We have studied the clause relating to Indian Income Tax and hereby declare that if any income tax, surcharge on Income Tax, Professional and any other corporate Tax in altered under the law, we shall pay the same.

#### 2. UNIT RATES

We have indicated in the relevant schedules enclosed, the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to / decrease from the scope of work under the contract.

#### 3. EARNEST MONEY DEPOSIT (EMD)

We have furnished EMD in the form of Bank Guarantee from scheduled bank as per the prescribed format. A Scan copy of the EMD Bank guarantee is submitted online at the time of bid submission. The original paper copy of the EMD bank guarantee shall be submitted to PSeGS within two days of the bid submission. This EMD is liable to be forfeited in accordance with the provisions of the Section III - General Conditions of the Contract.

#### 4. DEVIATIONS

We declare that all the services shall be performed strictly in accordance with the Tender documents except for the variations and deviations, all of which have been detailed out exhaustively in the following statement, irrespective of whatever has been stated to the contrary any where else in our bid.

Further we agree that additional conditions, if any, found in the Tender documents, other than those stated in deviation schedule, shall not be given effect to.

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

## 5. TENDER PRICING

We further confirm that the prices stated in our bid are in accordance with your Instruction to Bidders included in Tender documents.

## 6. QUALIFYING DATA

We confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/ documentary proof in this regard before evaluation of our Tender, we agree to furnish the same in time to your satisfaction.

## 7. BID PRICE

We declare that our Bid Price is for the entire scope of the work as specified in the Schedule of Requirements and Tender documents. These prices are indicated in Format 2 of this Section attached with our Tender as part of the Tender.

## 8. CONTRACT PERFORMANCE GUARANTEE BOND

We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond in the form prescribed in Volume II, Annexure III- Performa and as per Section VII - General Conditions of Contract.

We hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.

We understand that our Tender is binding on us and that you are not bound to accept a Tender you receive.

We confirm that no Technical deviations are attached here with this commercial offer.

Thanking you,

Yours faithfully,

(Signature of the Bidder) Printed Name

Designation

Seal.

Date:

Place:

Business Address:

# Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

## Annexure 'E' To Corrigendum

### 8.2 Format 2 - Certificate Regarding Number of Technical Qualified Professionals on Company Rolls

To,  
The Member Secretary  
Punjab State e-Governance Society (PSEGS)  
Department of Governance, Punjab  
S.C.O. 162-164, Sector 34-A, Chandigarh  
Fax: 0172 – 2600971

Sir/Madam,

I have carefully gone through the Terms & Conditions contained in the RFP Document for Punjab State Data Centre.

I hereby declare that my company <name has to specify by bidder> has <number to be defined by bidder> technically qualified professionals in, networking, systems integration, and prior experience in providing the Data Centre Infrastructure maintenance services as on 31-03-15.

Also I declare that my company <name has to specify by bidder> has <number to be defined by bidder> persons (ITIL certified) and <number to be defined by bidder> persons (BS7799/ ISO 27001 lead Auditor or Auditor or Lead Implementer certified).

I further certify that I am competent officer in my company to make this declaration.

Details of ITIL Certified and BS7799/ ISO 27001 Lead Auditor or Auditor or Lead Implementer certified persons:

S.No.	Name of person	ITIL Certified (Yes/No)	BS7799/ISO 27001 Lead Auditor or Auditor or Lead Implementer certified (Yes/No)	Year of Experience
1	To be filled			To be filled
2	To be filled			To be filled
	Bidder can insert more rows			To be filled

Your's Sincerely

**Corrigendum to Request for Proposal (RFP) for State Data Centre  
(SDC) Project Punjab**

---

**Annexure 'F' To Corrigendum**

**8.10 Format 10 - Specifications of the Physical Components**

S. No.	Item Description	UOM	Quantity	Make	Model
1.					
2.					
3.					
4.					

# Quantity could be the absolute number or a unit like kgs/ft<sup>2</sup>, ft/mt<sup>2</sup> etc depending upon the type of equipment in consideration. For e.g. Air-conditioning system would have 'x' number of PAC units and 'y' tons of capacity. Similarly cabling would be specified in z feet per square meters Bidder should provide detailed specifications in Annexure II - Volume II

# Quantity could be the absolute number or a unit like kgs/ft<sup>2</sup> , ft/mt<sup>2</sup> etc depending upon the type of equipment in consideration. For e.g. Air-conditioning system would have 'x' number of PAC units and 'y' tons of capacity. Similarly cabling would be specified in z feet per square meters.

Bidder shall refer to applicable Bill of Quantity under section 1.3.2 of RFP Volume-II.

**8.11 Format 11 - Specifications of the IT Components**

Sl. No.	Tech. Spec. No.	Item Description	UOM	Qty	Make	Model
1.						
2.						
3.						

Bidder shall refer to applicable Bill of Quantity under section 1.3.2 of RFP Volume-II.

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

### 8.12 Format 12 - Manpower Details

The Bidder should provide a detailed resource deployment plan to ensure that technically qualified staff is available to deliver the project. The Bidder would require qualified Data Center Design expert, Project Manager, etc. who have to be necessarily the employee of the bidder. But the other resources like the civil works staff, etc. may either be employed directly by the Bidder or be subcontracted personnel from one of the consortium partners. However, the Bidder would have to monitor and manage the staff on a daily basis.

The Bidder should provide the summary table of details of the manpower that will be deployed on this project for implementation along with detailed CVs in the attached format:

Sl. No.	Type of Resource	No. of Resources	Key Responsibilities	Academic Qualifications and Certification (e.g. ITIL)	Years of Relevant Experience	Name of the Company (in case of prime and partner)
1.	Project-in-Charge					
2.	Technical specialist – Network & Security					
3.	Technical specialist – Server					
4.	Technical specialist – Storage, DR, EMS/Cloud					
5.	Technical specialist – Infrastructure Support Staff					
6.	Helpdesk coordinator					
7.	Infrastructure support Staff					
8.	Physical security					
9.	Housekeeping					



**Corrigendum to Request for Proposal (RFP) for State Data Centre  
(SDC) Project Punjab**

---

10.	Support and backoffice					
11.	Others (please specify)					

**Annexure 'G' To Corrigendum**

**10.2.1.3 Section A3: Cloud EMS (A3)**

S. #	Tech. Spec. No.	Item description	UOM	QTY	Make	Model	Base Unit cost in INR	Total Base cost in INR	CST in %age	VAT in %age	CST in INR	VAT in INR	Total Cost in INR
A		B	C	D	E	F	G	H = DXG	I	J	K	L	M=H+K+L
1.		EMS License for Network Fault Management Module	Nos	1									
2.		EMS License for Performance Management Module	Nos	1									
3.		EMS License for Helpdesk Management System Module	Nos	1									
4.		EMS License for Cloud enablement Module	Nos	1									
5.		EMS License for Service Provisioning Capability Module	Nos	1									
6.		EMS License for Automation, Orchestration and Monitoring Module	Nos	1									
7.		CAL Licenses for Cloud EMS Set for	Nos	12									

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

		<p>servers with specifications as mentioned in Application server specifications &lt;Relevant section for App server specs&gt;. A minimum of 8 Virtual Machines would be created in each physical server. Bidder to provide a blanket license set based on the above.</p> <p>However, for Network and Helpdesk related functionalities, this set of licenses is expected to cater to all SDC Network devices and Helpdesk analysts.</p> <p>Note: Bidder should add more line for individual items proposed in solution.</p>											
8.		Other (please specify)											
9.		Hardware as per bidder solution	Nos	To be defined									

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

				by bidder									
<b>Total Section - A3 (EMS) (in Figures)</b>													
<b>Total Section - A3 (EMS) (in Words)</b>													

**Note:** Bidder has to mention quantity of the item over and above the mentioned quantity which shall be sufficient to meet the scope/ objective of State Data Center. **Bidder need to provide the break-up of the costing for EMS and Cloud management solution for each component as per technical specifications (additional rows may be added as per the requirement).** The Cloud and EMS licenses should include all the components and license as per the RFP requirement. While the bidder needs to quote to meet the license requirement for all the appliances from day-1, the each component pricing shall also be used for future procurement.

**Annexure 'H' To Corrigendum**

**10.2.1 Section B1 - O&M Services Cost**

S.No	Item description	Year					Total Base cost in INR	Service Tax in %age	Total Cost in INR
		1	2	3	4	5			
1	Facility Management Services Cost of all IT and Non IT components as per BoM / RFP / solution for entire project period								
2	Cost of Update and Maintenance of Software licenses								
<b>Total Section B1 (OPEX Cost) ( 1+2 ) (in Figures)</b>									
<b>Total Section B1 (OPEX Cost) (in Words)</b>									

**Please note:**

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

1. The cost of electricity, diesel shall be paid on actual consumption subject to submission of bills and timely payment to concerned service provider. This value is over and above the tender cost.
2. Bill Collection and timely submission will be the responsibility of the bidder.
3. The SIA will consider if any revision in service tax during the tenure of the project. But it's DCO's responsibility to notify (with supporting document(s)) the SIA regarding any upward and downward change in the service tax and pass the benefit to SIA if there is any downward change in the same and SIA will bear in case of upwards change.
4. The bidder will ensure that prices/cost for all the software licenses discovered during the bid process will be valid for entire period of contract
5. DCO is responsible for scalability (as defined in technical specifications in Volume II) & facilitate the State to scale up the Data Center without effecting the operation.
6. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State with valid warranty and is hosted in the State Data Centre, O&M charges for that infrastructure shall be paid @1.0 % per Qtr of respective Hardware and Software CAPEX cost. The activities under the O&M of such Infrastructure shall include:
  - a. Liasoning, coordination, follow-up, escalation with Hardware vendor/User Department in event of hardware fault/replacement/any other maintenance activity etc and ensuring the activity completion.
  - b. Installation, configuration and maintenance of software's (not limited to system software's) except application software (provided by the application).
  - c. Maintaining applicable SLAs for servers, storage, security equipment's (Firewall, switch etc) as per IT Infrastructure related service levels (Table 5.7.2 of the RFP volume I). All other SLA's relating to Data center services shall remain same.
  - d. Manpower support as per skill set required to operate and maintain the Infrastructure.
7. In future, if any Core Infrastructure (new additional hardware or software) is procured by the State which may not be under warranty and is hosted in the State Data Centre, O&M charges for that infrastructure shall be paid @3.0 % per Qtr of respective Hardware and Software CAPEX cost. The activities under the O&M of such Infrastructure shall include:
  - a. Complete maintenance and upkeep of Hardware in event of hardware fault/replacement/any other maintenance activity etc and coordination with user department.
  - b. Installation, configuration and maintenance of software's (not limited to system software's) except application software (provided by the application).
  - c. Maintaining applicable SLAs for servers, storage, security equipment's (Firewall, switch etc) as per IT Infrastructure related service levels (Table 5.7.2 of the RFP volume I). All other SLA's relating to Data center services shall remain same.

- d. Manpower support as per skill set required to operate and maintain the Infrastructure.

In future, if any Core Infrastructure (new additional hardware or software) is procured by any of the State Department and is being managed by respective department and is hosted in the State Data Centre, no O&M charges will be paid of respective Hardware and Software CAPEX cost. In such cases, DCO shall be responsible to provide all the applicable common SLA's as per clause 5.7 of the RFP Volume – I related to Data Center services like power, cooling, LAN etc.

Annexure '1' To Corrigendum

1.2.2.9 IP KVM

S. No.	DESCRIPTION	QTY	Pg No. where the functionality/ specification mentioned
	IP KVM	5	
S.No.	Desired Specifications	Compliance/ Deviation	
	<b>Hardware features</b>		
1.	Form Factor - It should be rack-mountable		
2.	<b>Supported servers – Min. 256 in a two-level cascade</b>		
3.	Minimum Ports :  16 x 10/100 Mbps-RJ45 server ports  1 x 15 Pin SVGA/XGA  1 x PS/2 or USB 2.0 Mouse		



## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

	1 x PS/2 or USB 2.0 Keyboard		
4.	It should support min. 1 LAN (Local), min. 3 WAN(Remote) access		
5.	It should support min. 4 number of simultaneous users		
6.	<b><i>The KVM switch should be SNMP Trap Support enabled. It should be operable from remote locations.”</i></b>		
7.	It should have 15 inch TFT monitor and a movable front panel		
8.	It should support multiple operating system		
9.	It should have serial device switching capabilities		
10.	It should have dual power with fail over and built-in surge protection		
11.	It should support multi-user access and collaboration		
12.	It should have support for blade server and rack mounted server of different brands/OEM		

## Corrigendum to Request for Proposal (RFP) for State Data Centre (SDC) Project Punjab

---

13.	It should include required software (server / client), cables, and other accessories. The cables shall be supplied to ensure connectivity to all the racks used by bidder to install servers and equipment's as part of scope of work		
14.	It should support password protection for restricted access		
15.	Any other feature which The bidder wish to Mention here	Please mention here: 1.	
		2.	
		3.	

Adequate number of desktops,laptops, multifunction device which are required to make the solution work would have to be included by the bidder.

