CORRIGENDUM-5

Last Date of Submission of Proposal: 23-04-2021, 02:00 PM, Opening of Pre-Qualification Bids on 23-04-2021, 04:00 PM

Revised Request for Proposal – Extension of Odisha State Data Centre – OSDC 2.0

Selection of System Integrator for Design, Build, Installation, Commissioning, Integration, and Operations & Maintenance of Non-IT & IT Infrastructure for Extension of Odisha State Data Centre (OSDC 2.0).

Tender Enquiry No: OCAC-NEGP-INFRA-008-2018-20038

Odisha Computer Application Centre (OCAC)

(Technical Directorate of E&IT Department, Govt. of Odisha)

S.N.	Page No.	Clause No.	Clause header	Clause details as in revised RFP/Corrigendum -2	Modification/ Remark
1	29-30	3.1 (5)	Pre – Qualification Criteria	Project Experience	The clause may be read as below: "During the last Five years, the Bidder should have implemented/completed and operated Data Centre projects/ large projects having Datacentre for Central / State Governments, PSUs, PSE, Banking & Financial Institutions, Telecom and IT companies in India that meets the below mentioned requirement: a. Single order of value 90 Crore or more; OR b. Two orders each having minimum value of 60 Crores or more; OR c. Three orders each having minimum value of 50 Crores or more (i) The orders should include installation, commissioning of Data Centre (Non-IT & IT) components; AND (ii) The orders should include Operation & Maintenance including FMS of the Data Centre as on last date of Bid submission ". Documents: "Copy of work order(s) / Purchase Order/ Completion Certificate/ contract agreement. Supported with relevant documentary evidences for the design parameters and the Completion/ In Progress /Go Live/FAT certificates by the customer. The work orders/agreement/completion certificate of projects having Datacentre as part of scope should have value mentioned and easily identifiable for evaluation purpose."
2	31	3.1 (8) New Addition	Pre – Qualification Criteria	Data Centre Certification	The clause may be read as below: "During the last Five years, the bidder should have implemented/completed and operated Tier III Uptime or higher or Equivalent Certified Data Centre projects /large projects having Data Centre for Central/State Governments, PSUs, PSEs, Banking & Financial Institutions, Telecom and IT Companies in India. Documents: "Copy of work order(s) / Purchase Order/ Completion Certificate/ contract agreement. Supported with relevant documentary evidences for the design parameters

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>and the Completion/ In Progress /Go Live /FAT certificates by the customer. The work orders/agreement/completion certificate of projects having Datacentre as part of scope should have value mentioned and easily identifiable for evaluation purpose.”</td></tr>
<tr><td>3</td><td>42</td><td>3.14 (A) (4)</td><td>Bidder’s experience in having Uptime Certified Datacentre (Design/ Built)</td><td>5 marks for Bidder’s experience in having Uptime/Equivalent Certified Datacentre (Design/ Built)</td><td>The clause may be read as below:
3.14. Technical Bid Evaluation Scoring Matrix
A : A. Organizational Strength and Project Experience – 20 Marks

“Sl. 4. Bidder’s experience in having Uptime/Equivalent Certified Datacentre (Design / Built) - Max Score -5 Marks
Scoring Mechanism:
1 Data Centre = 2 Marks
2 Data Centres = 4 Marks
More than 2 Data Centres = 5 Marks

Credential required -Copy of relevant Work Orders/Completion Certificate/ Purchase Order”.</td></tr>
<tr><td>4</td><td>47</td><td>3.14 (C)
1.
Server Type -1 Rack Server</td><td>3.14. Technical Evaluation for IT Devices:</td><td>Processor Type-1 should have 2 x 16 cores or higher, minimum 2.8 GHz clock rate or more. -1.25 Marks
Processor Type-1 should have 2 x 16 cores and less than 2.8 GHz clock rate. – 1 Mark
Processor Type-2 should have 2 x 28 cores or higher, minimum 2.1 GHz clock rate and more. -1.25 Marks
Processor Type-2 should have 2 x 28 cores less than 2.1 GHz</td><td>The clause may be read as follows :
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td>1</td><td>Rack Server</td><td>2.5</td><td>Processor Type-1 should have 2 x 16 cores, more than 2.8 GHz clock rate</td><td>1.25</td></tr>
<tr><td></td><td></td><td></td><td>Processor Type-1 should have 2 x 16 cores, minimum 2.8 GHz clock rate</td><td>1</td></tr>
<tr><td></td><td></td><td></td><td>Processor Type-2 should have 2 x 28 cores or higher, more than 2.1 GHz clock rate</td><td>1.25</td></tr>
<tr><td></td><td></td><td></td><td>Processor Type-2 should have 2 x</td><td>1</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td>clock rate. – 1 Mark</td><td>
<table>
<tr><td></td><td></td><td></td><td>28 cores, minimum 2.1 GHz clock rate.</td><td></td></tr>
</table>
</td></tr>
<tr><td>5</td><td>48</td><td>3.14 (C)
3.Spine Switch</td><td>3.14. Technical Evaluation for IT Devices:</td><td>Shall offer more than 30 Tbps per slot wired speed nonblocking forwarding performance from day 1. - 2.5

Shall offer minimum up to or less than 30 Tbps or more per-slot bandwidth from day-1 - 2</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td rowspan="2">3</td><td rowspan="2">Spine Switch</td><td rowspan="2">2.5</td><td>Shall offer more than 30 Tbps wired speed nonblocking forwarding performance from day-1.</td><td>2.5</td></tr>
<tr><td>Shall offer 30 Tbps wired speed nonblocking forwarding performance from day-1</td><td>2</td></tr>
</table>
</td></tr>
<tr><td>6</td><td>48</td><td>3.14 (C)
4. Leaf Switch type 1 (Fibre)</td><td>3.14 Technical Evaluation for IT Devices:</td><td>Switch Shall offer routing/switching capacity of minimum of 2.66 Tbps or more, speed non-blocking forwarding performance. - 1.5

Switch Shall offer routing/switching capacity of minimum of 2.66 Tbps or less, speed non-blocking forwarding performance. -1

Support for 10G, 25G, 40G, and 100G from day-1 - 1</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td rowspan="2">4</td><td rowspan="2">Leaf Switch (Fibre)</td><td rowspan="2">2.5</td><td>Shall offer routing/switching capacity of more than 3.6 Tbps speed nonblocking forwarding performance from day 1.</td><td>2.5</td></tr>
<tr><td>Shall offer routing/switching capacity of minimum 3.6 Tbps wired speed nonblocking forwarding performance from day 1.</td><td>2</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td>7</td><td>48</td><td>3.14 (C)
5. Management Switch -2</td><td>3.14 Technical Evaluation for IT Devices:</td><td>Shall have routing/switching capacity of minimum of 176 Gbps or more and up to 130 Mpps of forwarding performance – 2.5

Shall have routing/switching capacity of below than 176 Gbps and 130 Mpps of forwarding performance -2</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td rowspan="2">5</td><td rowspan="2">Management Switch -1</td><td rowspan="2">2.5</td><td>Shall have routing/switching capacity of more than 176 Gbps and 130 Mpps of forwarding performance from day 1.</td><td>2.5</td></tr>
<tr><td>Shall have routing/switching capacity of 176 Gbps and 130 Mpps of forwarding performance from day 1.</td><td>2</td></tr>
</table></td></tr>
<tr><td>8</td><td>48-49</td><td>3.14 (C)
6. Enterprise Storage</td><td>3.14 Technical Evaluation for IT Devices:</td><td>Enterprise Class Storage System and supplied with 1PB or more usable capacity of all SSD/ Flash /FMD. – 1

Enterprise Class Storage System and supplied with less than 1PB usable capacity of all SSD/ Flash /FMD. – 0.8

The enterprise storage array must be proposed with a minimum of four controllers/directors & should be scalable up to eight controllers/directors as a single array (serial number/asset)-1</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td rowspan="4">6</td><td rowspan="4">Enterprise Storage</td><td rowspan="4">2.6</td><td>Enterprise Class Storage System should be supplied with 1PB or more usable capacity of all SSD/ Flash /FMD.</td><td>2</td></tr>
<tr><td>Enterprise Class Storage System should be supplied with 1PB usable capacity of all SSD/ Flash /FMD.</td><td>1.6</td></tr>
<tr><td>The designed IOPs for 30:70 Write: Read for the above systems for RAID 6 should be 1million IOPS or more with 8K block size from SSD tier</td><td>0.6</td></tr>
<tr><td>The designed IOPs for 30:70</td><td>0.4</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td>The enterprise storage array must be proposed with a minimum of four controllers/directors & should be scalable less than eight controllers/directors as a single array (serial number/asset). -0.8

The designed IOPs for 30:70 Write: Read for the above systems for RAID 6 should be minimum 1million IOPS or more with 8K block size from SSD tier – 0.6
The designed IOPs for 30:70 Write: Read for the above systems for RAID 6 is less than 1million IOPS with 8K block size from SSD tier -0.4</td><td><table><tr><td></td><td></td><td></td><td>Write: Read for the above systems for RAID 6 should be 1million IOPS with 8K block size from SSD tier</td><td></td></tr></table></td></tr>
<tr><td>9</td><td>49</td><td>3.14 (C)
7. Tape Library</td><td>Technical Evaluation for IT Devices:</td><td>Shall support Native data capacity of more than 3PB (uncompressed) expandable to more than 4 PB (2.5:1 compressed) when fully populated, using LTO-8 or higher – 2.6

Shall support Native data</td><td>The clause may be read as below:<table><tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr><tr><td rowspan="2">7</td><td rowspan="2">Tape Library</td><td rowspan="2">2.6</td><td>Shall be offered with more than 15 no’s LTO-8 FC tape drives.</td><td>2.6</td></tr><tr><td>Shall be offered with Minimum of 15 no’s LTO-8 FC tape drives.</td><td>2</td></tr></table></td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td>capacity of more than 3PB (uncompressed) expandable to less than 4 PB (2.5:1 compressed) when fully populated, using LTO-8 - 2</td><td></td></tr>
<tr><td>10</td><td>49</td><td>3.14 (C)
8. Link Load Balancer</td><td>Technical Evaluation for IT Devices:</td><td>The appliance should have 10 Gbps or more throughput from day one – 2.5

The appliance has less than 10 Gbps throughput from day one -2</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td>8</td><td>Link Load Balancer</td><td>2.5</td><td>The appliance should have more than 10 Gbps throughput from day one.</td><td>2.5</td></tr>
<tr><td></td><td></td><td></td><td>The appliance should have minimum of 10 Gbps throughput from day one.</td><td>2</td></tr>
</table></td></tr>
<tr><td>11</td><td>49-50</td><td>3.14 (C)
9.
Next Generation Firewall (NGFN)</td><td>3.14 Technical Evaluation for IT Devices:</td><td>The proposed solution should have dual redundant power supply and minimum 128 GB memory/RAM – 1

The proposed solution should have dual redundant power supply and less than 128 GB memory/RAM – 0.8

Proposed appliance must support more than 4 million concurrent sessions and should be scalable to support 25 million and 150,000 new</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td>9</td><td>Next Generation Firewall (NGFN)</td><td>2.6</td><td>The proposed solution should have dual redundant power supply and more than 128 GB memory/RAM.</td><td>1</td></tr>
<tr><td></td><td></td><td></td><td>The proposed solution should have dual redundant power supply and minimum 128 GB memory/RAM.</td><td>0.8</td></tr>
<tr><td></td><td></td><td></td><td>Proposed appliance must support more than 4 million concurrent sessions and should be scalable to support more than 25 million and</td><td>1</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td>connections per second from day one and should be scalable to support 300,000 new connections – 1 Mark

Proposed appliance support less than 4 million concurrent sessions and not scalable to support 25 million and less than 150,000 new connections per second from day one and not scalable to support 300,000 new connections -0.8

Storage capability of more than 2TB /minimum 180 days log retention whichever is higher (should be inbuilt or on a separate management appliance) need to be provided as part of the solution for logging and reporting– 0.6

Storage capability of less than 2TB /less than 180 days log retention - 0.4</td><td><table>
<tr><td></td><td></td><td></td><td>150,000 or more new connections per second from day one and should be scalable to support 300,000 or more new connections.</td><td></td></tr>
<tr><td></td><td></td><td></td><td>Proposed appliance support 4 million concurrent sessions and scalable to support 25 million and 150,000 new connections per second from day one and to support 300,000 new connections.</td><td>0.8</td></tr>
<tr><td></td><td></td><td></td><td>Storage capability of more than 2TB /180 days log retention whichever is higher (should be inbuilt or on a separate management appliance) need to be provided as part of the solution for logging and reporting</td><td>0.6</td></tr>
<tr><td></td><td></td><td></td><td>Storage capability of minimum 2TB /180 days log retention whichever is higher (should be inbuilt or on a separate management appliance) need to be provided as part of the solution for logging and reporting</td><td>0.4</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td>12</td><td>50</td><td>3.14 (C)
10. AAA</td><td>Technical Evaluation for IT Devices:</td><td>Solution shall be provided with required licenses for minimum 2000 concurrent sessions or more for AAA and TACACS+ access on Day 1. Solution shall be scalable up to 4,000 concurrent sessions or more without any hardware change- 2.6

Solution shall be provided with required licenses for less than 2000 concurrent sessions for AAA and TACACS+ access on Day 1 – 2</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td rowspan="2">10</td><td rowspan="2">AAA</td><td rowspan="2">2.6</td><td>Solution shall be provided with required licenses for more than 200 concurrent sessions for AAA and TACACS+ access on Day 1 Solution should be scalable more than 400 concurrent sessions without changing any hardware.</td><td>2.6</td></tr>
<tr><td>Solution shall be provided with required licenses for minimum 200 concurrent sessions for AAA and TACACS+ access on Day 1 Solution should be scalable up to 400 concurrent sessions without changing any hardware.</td><td>2</td></tr>
</table></td></tr>
<tr><td>13</td><td>50</td><td>3.14 (C)
11. DDOS</td><td>Technical Evaluation for IT Devices:</td><td>Solution should Provide Minimum 20 Gbps mitigation throughput. – 1.5
<20 Gbps throughput – 1.25

Solution should provide Min 18 Gbps SSL throughput or appliance should protect from all SSL attacks including key less protection for handling capacity of minimum 80000 or more SSL CPS -1.5</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td rowspan="3">11</td><td rowspan="3">DDOS</td><td rowspan="3">3</td><td>Solution should provide more than 20 Gbps mitigation throughput.</td><td>1.5</td></tr>
<tr><td>Solution should provide minimum 20 Gbps mitigation throughput.</td><td>1.25</td></tr>
<tr><td>Solution should provide more than 18 Gbps SSL throughput or appliance should protect from all SSL attacks including key less</td><td>1.5</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td><18 Gbps SSL throughput or appliance should protect from all SSL attacks including key less protection for handling capacity of less than 80000 SSL CPS -1.25</td><td>
<table>
<tr><td></td><td></td><td></td><td>protection for handling capacity of more than 80000 SSL CPS</td><td></td></tr>
<tr><td></td><td></td><td></td><td>Solution should provide minimum 18 Gbps SSL throughput or appliance should protect from all SSL attacks including key less protection for handling capacity of minimum 80000 SSL CPS</td><td>1.25</td></tr>
</table>
</td></tr>
<tr><td>14</td><td>51</td><td>3.14 (C)
12.
SDN Controller</td><td>Technical Evaluation for IT Devices:</td><td>The SDN solution should support VMs (running on ESXi, KVM / Hyper-V/RHEV) Minimum 2 or more platforms must be supported - 2.6

The Solution should support VMs (running on ESXi, KVM) – 2</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td>12</td><td>SDN Controller</td><td>2.6</td><td>The SDN solution should support all the forms of Virtualization, more than one like (ESXi, KVM ,Hyper-V and RHEV)</td><td>2.6</td></tr>
<tr><td></td><td></td><td></td><td>The SDN solution should support minimum one Virtualization (ESXi /KVM/Hyper-V/ RHEV)</td><td>2</td></tr>
</table>
</td></tr>
<tr><td>15</td><td>51</td><td>3.14 (C)
13. Anti APT</td><td>Technical Evaluation for IT Devices:</td><td>Appliance must be able to handle minimum of 1 Gbps or more of traffic capacity for inspection -1.5

Appliance must be able to handle less than 1 Gbps of traffic capacity for inspection - 1</td><td>The clause may be read as below:
<table>
<tr><th>Sl.</th><th>Name of the Device</th><th>Max. Score</th><th>Parameter/ Specification</th><th>Score</th></tr>
<tr><td>13</td><td>Anti APT</td><td>1.5</td><td>Appliance must be able to handle more than 1 Gbps of traffic capacity for inspection</td><td>1.5</td></tr>
<tr><td></td><td></td><td></td><td>Appliance must be able to handle minimum of 1 Gbps of traffic capacity for inspection</td><td>1</td></tr>
</table>
</td></tr>
</table>

S.N.	Page No.	Clause No.	Clause header	Clause details as in revised RFP/Corrigendum -2	Modification/ Remark
16	121	5.22.3	Precision Air Conditioning System (Direct Expansion In-ROW)	Air Quantity : 80 to 100 CFM/KW.	RFP Clause No 5.22.3 Precision Air Conditioning System (Direct Expansion In-ROW), Point No-7 (Page No-121) may be read as below: “Air Quantity : As per OEM recommendation”
17	228	7.3 (56)	Spine Switch	Minimum 64 ports support both 40G/ 100G and 2 Ports of 100G QSFP+ equally distributed across interface modules. All 64 ports to be populated from day 1 with 100G QSFP+ transceiver for spine and leaf connectivity.	RFP Clause No 7.3 Spine Switch, Point No-56 (Page No-228) may be read as below: “Minimum 90 ports support both 40G/ 100G. All 90 ports to be populated from day 1 with 100G QSFP+ transceiver for spine and leaf connectivity. ”
18	228	7.4 (4)	Leaf Switch (Fibre)	Shall have routing/switching capacity of minimum of 2.66 Tbps or more, speed non-blocking forwarding performance.	RFP Clause No 7.4 Leaf Switch (Fibre), Point No-4 (Page No-228) may be read as below: “Shall have routing/switching capacity of minimum of 3.6 Tbps or more, speed non-blocking forwarding performance from day 1.”
19	229	7.4 (27)	Leaf Switch (Fibre)	Dynamic Host Configuration Protocol (DHCP) client/ Relay and server	RFP Clause No 7.4 Leaf Switch (Fibre), Point No-27 (Page No-229) may be read as below: “Dynamic Host Configuration Protocol (DHCP) client/ Relay /Server”
20	247	7.14 (5)	DDOS	SSL connection: Min. 33,000 TPS (Key Size of 2048 bit) and 18,000 TPS (ECC Keys) – H/W accelerated	RFP Clause No 7.14 DDOS, Point No-5 (Page No-247) may be read as below: "Clause Dropped"
21	247	7.14 (8)	DDOS	Ports: Minimum 16 no's of ports (8 ports 1/10G, 8 ports 1G) Transceivers = 8 no's of	RFP Clause No 7.14 DDOS, Point No-8 (Page No-247) may be read as below: " Ports: Minimum 12 no's of ports (4 ports 1/10G, 8 ports 1G) Transceivers = 4 no's of 10G and 8 no's of 1G "

S.N.	Page No.	Clause No.	Clause header	Clause details as in revised RFP/Corrigendum -2	Modification/ Remark
				10G and 16 no's of 1G	
22	247	7.14 (23)	DDOS	Real time signature to protect against zero-day attacks including ability to create real time signatures of DNS based attacks.	RFP Clause No 7.14 DDOS, Point No-23 (Page No-247) may be read as below: "Real time signature or advanced challenge response mechanism to protect against zero-day attacks including ability to create real time signatures/apply authentication based countermeasures for DNS based attacks "
23	247	7.14 (28)	DDOS	Server stress based L7 Behavioural DOS detection and mitigation including ability to create real time L7 DOS signatures.	RFP Clause No 7.14 DDOS, Point No-28 (Page No-247) may be read as below: " Server stress based L7 Behavioural DOS detection or advanced countermeasures and mitigation including ability to create real time L7 DOS signatures or challenge response authentication-based mechanism. "
24	261	7.20 (15)	Platform As a Service	The platform shall be deployable using same product on all types of deployment scenarios i.e. – bare-metal servers, virtualized servers, private cloud, public cloud & hybrid cloud.	RFP Clause No 7.20 Platform As a Service, Point No-15 (Page No-261) may be read as below: " The platform shall be deployable using same product on all types of deployment scenarios i.e. – bare-metal servers/virtualized servers/ private cloud/ public cloud & hybrid cloud.".
25	261	7.20 (21)	Platform As a Service	The solution should support multiple x86 based server OEM for bare metal deployment, Multiple Hypervisor like VMware, Hyper-V, RHV, OpenStack and multiple public cloud like AWS, GCP, Azure etc.	RFP Clause No 7.20 Platform As a Service, Point No-21 (Page No-261) may be read as below: "The solution should support multiple x86 based server OEM for bare metal deployment/Multiple Hypervisor like VMware/ Hyper-V/RHV/OpenStack and multiple public cloud like AWS, GCP, Azure etc.".

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td>26</td><td>269</td><td>7.22. (2)</td><td>SDN Solution</td><td>The SDN Solution shall automate networking policies and service overlay provisioning for the Bare metals, Virtual Machines The solution should also have complete support for container workloads like VMware, Hyper, Kubernetes, RHEV,RHOSP etc.</td><td>RFP Clause No 7.22 SDN Solution , Point No-2 (Page No-269) may be read as below:
“The SDN Solution shall automate networking policies and service overlay provisioning for the Bare metals, Virtual Machines. The solution should also have complete support for container workloads like Vmware / Hyper/ Kubernetes / RHEV / RHOSP etc".</td></tr>
<tr><td>27</td><td>269</td><td>7.22. (4)</td><td>SDN Solution</td><td>The SDN solution should support all the forms of Virtualization like ESXi, KVM ,Hyper-V and RHEV</td><td>RFP Clause No 7.22 SDN Solution, Point No-4 (Page No-269) may be read as below:
"The SDN solution should support different forms of Virtualization like ESXi/KVM/Hyper-V /RHEV "</td></tr>
<tr><td>28</td><td>270</td><td>7.22. (33)</td><td>SDN Solution</td><td>The SDN Solution should offer Centrally managed distributed L2-L4 stateful firewall</td><td>RFP Clause No 7.22 SDN Solution, Point No-33 (Page No-270) may be read as below:
"The SDN Solution should offer Centrally managed distributed L2-L4 stateful firewall / stateless filters ".</td></tr>
<tr><td>29</td><td>283</td><td>7.30. (9)</td><td>Zero Trust Network Access</td><td>The solution should be software based and gateway can be deployable on Open Source platform (Ubuntu. Centos). The Platform should be future scalable to 1000000+ users without any financial implications.</td><td>RFP Clause No 7.30 Zero Trust Network Access, Point No-9 (Page No-283) may be read as below:
“The solution should be software based and gateway can be deployable on Open Source platform (Ubuntu. Centos). The Platform should be minimum 5000 users from day one future scalable to 15000 users.”</td></tr>
<tr><td>30</td><td>304</td><td>10.8 (2)</td><td>Security and Incident Management Service Levels</td><td>For every instance of Denial of Service (DoS) attack and not resolved within 2 hrs from the time of attack.</td><td>RFP Clause No. 10.8 Security and Incident Management Service Levels, Sl. No. 2 (Page No. 304) may be read as below:
<table>
<tr><th>Sl. No.</th><th>Definition</th><th>Measurement</th><th>Target</th><th>Penalty</th></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>S.N.</th><th>Page No.</th><th>Clause No.</th><th>Clause header</th><th>Clause details as in revised RFP/Corrigendum -2</th><th>Modification/ Remark</th></tr>
<tr><td></td><td></td><td></td><td></td><td>Every instance in the Quarter

Beyond 2 hrs

Rs.5,00,000.00 per DoS attack</td><td>
<table>
<tr><td></td><td></td><td>Interval</td><td></td><td></td></tr>
<tr><td>2</td><td>For every instance of Denial of Service (DoS) attack reported and not resolved within 2 hrs from the time of attack.</td><td>Every instance in the Quarter</td><td>Beyond 2 hrs</td><td>Rs.5,00,000.00 per DoS attack</td></tr>
</table>
</td></tr>
<tr><td>31</td><td>330</td><td>12.2</td><td>BOQ of IT items</td><td>5.3 DDOS Set - 2</td><td>RFP Clause No 12.2 BOQ of IT items, 5.3 DDOS may be read as below:
“5.3 DDOS Nos – 2”</td></tr>
<tr><td>32</td><td>333</td><td>13.2</td><td>Human Resource and Planning Planned Resource during O & M Activity for (IT & Non-IT)</td><td>Note: Above manpower requirement table is indicative as minimum requirement for OSDC 2.0 and existing DC, bidder should have a clear prospective of the requirement of manpower to maintain the project and achieve the required SLA. Bidder should have their enough additional resource to meet the challenge of leave/replacement/changes and smooth delivery of services.
Key Resources & IT manpower (except Helpdesk Executive) mentioned in resource table must be a payroll employee of the successful bidder company.</td><td>RFP Clause No 13.2 Human Resource and Planning Planned Resource during O & M Activity for (IT & Non-IT), Note Point (Page No-333) may be read as below:

“Note: Above manpower requirement table is indicative as minimum requirement for OSDC 2.0 and existing DC, bidder should have a clear prospective of the requirement of manpower to maintain the project and achieve the required SLA. Bidder should have enough additional resource to meet the challenge of leave/replacement/changes and smooth delivery of services.
Key Resources (DC Project Manager, Network & Security Administrator, Cloud & Server Administrator, Database Administrator) mentioned in resource table must be a payroll employee of the successful bidder company.
(EMS Specialist, Storage & Backup Administrator, Cloud Network Engineer, Cloud System Engineer, Helpdesk Support, Facility Manager, BMS Support Engineer, Electrical Supervisor, Electrical Technician, Housekeeping Staff, Back Office Staff, Security Guard, Front Desk Executive) mentioned in resource table may be either in the payroll of the subcontractor or may be hired on contractual basis for the project by the successful bidder company.”</td></tr>
</table>

S.N.	Page No.	Clause No.	Clause header	Clause details as in revised RFP/Corrigendum -2	Modification/ Remark
33	391	Annexure -A	(As-Is Inventory List of Current SDC)	Storage and Back Up Devices Details	"Sl. No. 39 & 40, SAN Switch - 5 &6, Make & Model: Cisco, DS-C9148-K9, 32 Port AMC/ Support Required – No "
34	396	Annexure -A	(As-Is Inventory List of Current SDC)	Safety and Security and IT support devices details	"300 KVA BATTERY BANK 1 &2 (Qty = 408, 2v 760Ah) 20 KVA BATTERY BANK 1 & 2 (Qty = 68, 12v 100Ah) Date of installation: 03/04/2018 Make & Model: Exide "
35	410	Annexure -A	(As-Is Inventory List of Current SDC)	Additional Software License Details	"Note: The bidder shall quote the AMC price for IT equipment (hardware or software) asked in the Annexure -A, till the end of support is declared by respective OEM's".
36	412	Annexure -A	(As-Is Inventory List of Current SDC)	NON -IT Support details	"Note: The bidder shall have the flexibility to either quote the AMC price for Non- IT equipment asked in the Annexure -A or may replace any Non-IT item with equivalent or higher specification. The same shall be applicable for the entire project period. However, the integration with the existing Data centre should be done as per scope of work mentioned in the RFP".
37		General	Scope of Work (Licenses)		"Bidder should quote all the required licenses from day-1. If the license prices are available in the GeM portal, bidder should not quote price higher than the price in the portal."