



Clause in RFP

S#	Clause in RFP	Clarifications/ Changes made
1.	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p><b>1. General Requirements.</b></p> <p>-----</p> <p>-----</p> <p>-----</p> <p>VII. Solution should be IPV4 &amp; IPV6 ready logo / <b>TEC</b> certified.</p> <p>-----</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p><b>1. General Requirements.</b></p> <p>-----</p> <p>-----</p> <p>-----</p> <p>VII. Solution should be IPV4 &amp; IPV6 ready logo <b>Or TEC</b> certified.</p> <p>-----</p> <p>-----</p> <p>-----</p>
2.	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>3. Architecture</b></p> <p>I. The solution should have the capability to synchronize clock with systems like network equipment, voice systems, all kind of servers, appliances, desktop systems etc.</p> <p>-----</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>3. Architecture</b></p> <p>I. The solution should have the capability to synchronize clock with systems like network equipment. Voice systems, all kind of servers. Appliances, desktop systems, <b>ATMs, Cash Recyclers, Any device which supports Time synchronization over network.</b></p> <p>-----</p> <p>-----</p> <p>-----</p>



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3.	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p>-----</p> <p>-----</p> <p><b>4. Hardware Requirements.</b></p> <p>-----</p> <p>-----</p> <p>III. Each system should have a dedicated Intelligent Platform Management Interface (IPMI) for out of band management.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p>-----</p> <p>-----</p> <p><b>4. Hardware Requirements.</b></p> <p>-----</p> <p>-----</p> <p>III. Each system should have a dedicated Intelligent Platform Management Interface (IPMI) for <b>either</b> out of band <b>or inband</b> management <b>these should be with separate interfaces for NTP and management.</b></p> <p>-----</p> <p>-----</p>
4.	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p>-----</p> <p>-----</p> <p><b>5. Performance.</b></p> <p>Each appliance should be capable to deliver minimum <b>9K</b> NTP request per second.</p> <p>-----</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>-----</p> <p><b>B. Technical Specifications for Enterprise NTP Solution.</b></p> <p>-----</p> <p>-----</p> <p><b>5. Performance.</b></p> <p>Each appliance should be capable to deliver minimum <b>7K</b> NTP request per second.</p> <p>-----</p> <p>-----</p> <p>-----</p>



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5.	<p><b>Annexure 10–Scope of Work</b> ----- ----- ----- <b>B. Technical Specifications for Enterprise NTP Solution.</b> ----- ----- <b>9. Device Administration, Management and Reporting.</b> ----- ----- ----- VI. The NTP system should support for monitor and manage using 3rd party Network Management System/Element Management System (NMS/EMS) software using SNMP V.2 and SNMP V.3.</p>	<p><b>Annexure 10–Scope of Work</b> ----- ----- ----- <b>B. Technical Specifications for Enterprise NTP Solution.</b> ----- ----- <b>9. Device Administration, Management and Reporting.</b> ----- ----- ----- VI. The NTP system should support for monitor and manage using 3rd party Network Management System/Element Management System (NMS/EMS) software using SNMP V.2 and SNMP V.3 <b>or REST API design for Monitoring and Management of NTP Appliance should prevent DDOS Attack, NTP Poisoning, DNS Poisoning. Incase REST API is used for management then it should be Highly secure and should not have any vulnerabilities.</b></p>
6.	<p><b>Annexure 10–Scope of Work</b> ----- ----- ----- <b>B. Technical Specifications for Enterprise NTP Solution.</b> ----- ----- <b>6. NTP Features.</b> ----- ----- ----- X. The NTP System should support Leap Smearing.</p>	<p><b>Annexure 10–Scope of Work</b> ----- ----- ----- <b>B. Technical Specifications for Enterprise NTP Solution.</b> ----- ----- <b>6. NTP Features.</b> ----- ----- ----- X. The NTP System should support Leap Smearing <b>(The purpose of Leap Smearing is to enable systems that don't deal with the leap second event properly to function consistently, at the expense of fidelity to UTC during the smear window. During a standard leap second event, that minute will have 61 (or possibly 59) seconds in it, and some applications (and even some OS's) are known to have problems with that).</b></p>



**बैंक ऑफ़ बड़ौदा**  
**Bank of Baroda**

**Request for Proposal for Selection of Vendor for Supply, Installation, implementation & Maintenance of Network Time Protocol (NTP) Solution, RFP ref. no. BCC:IT:PROC:112:11 dated 12th February, 2020. Addendum 2 dated 5<sup>th</sup> March 2020.**

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All other Terms & Conditions are same as per our RFP no. BCC:IT:PROC:112:11 dated 12<sup>th</sup> February 2020 for Request for Proposal for Selection of Vendor for Supply, Installation, implementation & Maintenance of Network Time Protocol (NTP) Solution.