

Clause in RFP

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	<p>1.5 Delivery</p> <p>All the deliverables should be delivered within 4 weeks from the date of acceptance of purchase order by successful vendor. Vendor will have to pay late delivery charges to Bank of Baroda @ 1% of the delayed product value inclusive of all taxes, duties, levies etc., per week or part thereof, for late delivery beyond due date of delivery, to a maximum of 5% of the delayed product value. If delay exceeds the maximum percentage of 5%, Bank of Baroda reserves the right to cancel the entire order.</p> <p>-----</p> <p>-----</p>	<p>1.5 Delivery</p> <p>All the deliverables should be delivered within 8 weeks from the date of acceptance of purchase order by successful vendor. Vendor will have to pay late delivery charges to Bank of Baroda @ 1% of the delayed product value inclusive of all taxes, duties, levies etc., per week or part thereof, for late delivery beyond due date of delivery, to a maximum of 5% of the delayed product value. If delay exceeds the maximum percentage of 5%, Bank of Baroda reserves the right to cancel the entire order.</p> <p>-----</p> <p>-----</p>

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	<p>1.14 Payment Terms</p> <p>-----</p> <p>-----</p> <p>A. Delivery of Hardware Components</p> <p>1. 50% of the total cost of hardware on successful UAT signoff of NTP Solution plus 100% of GST. (Wherever applicable) at actuals. The required documents to be provided along with original invoice:</p> <p>a) Original delivery Challans duly stamped and signed by the Project Managers of the successful bidder and Bank.</p> <p>b) In case of softwares, original License copies (if any)</p> <p>2. 40% of total cost of hardware and 100% of Implementation cost on successful Implementation i.e. on go live sign off of NTP Solution. The required documents to be provided along with original invoice:</p> <ul style="list-style-type: none"> • Original installation reports duly stamped and signed by the Project Managers of the successful bidder and Bank. <p>3. Balance amount of 10% of total cost of hardware will be released on completion of warranty period plus 3 months or against bank guarantee in the format as specified in Annexure 15 Bank Guarantee for early release of retention money by a scheduled commercial bank other than Bank of Baroda valid for an equivalent amount valid for the period of warranty period plus 3 months.</p> <p>-----</p> <p>-----</p>	<p>1.14 Payment Terms</p> <p>-----</p> <p>-----</p> <p>A. Delivery of Hardware Components</p> <p>1. 70% of the total cost of hardware on Delivery plus 100% of GST. (Wherever applicable) at actuals. The required documents to be provided along with original invoice:</p> <p>a) Original delivery Challans duly stamped and signed by the Project Managers of the successful bidder and Bank.</p> <p>b) In case of softwares, original License copies (if any)</p> <p>2. 20% of total cost of hardware and 100% of Implementation cost on successful Implementation i.e. on go live sign off of NTP Solution. The required documents to be provided along with original invoice:</p> <ul style="list-style-type: none"> • Original installation reports duly stamped and signed by the Project Managers of the successful bidder and Bank. <p>3. Balance amount of 10% of total cost of hardware will be released on completion of warranty period plus 3 months or against bank guarantee in the format as specified in Annexure 15 Bank Guarantee for early release of retention money by a scheduled commercial bank other than Bank of Baroda valid for an equivalent amount valid for the period of warranty period plus 3 months.</p> <p>-----</p> <p>-----</p>

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1	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>1. General Requirements.</p> <p>II. One Appliance should serve as master and changes done in this Appliance should replicate on all boxes. If master Appliance fails, other Appliance should be able to take over role of master.</p> <p>-----</p> <p>-----</p>	<p>Clause deleted</p>
2	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>3. Architecture</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, ATMs, Cash Recyclers, Any device which supports Time synchronization over network.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>3. Architecture</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, ATMs, Cash Recyclers, DVR/CCTV Any device which supports Time synchronization over network.</p> <p>-----</p> <p>-----</p>
3	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>3. Architecture</p> <p>III. The NTP solution should support the functionality of clustering two devices so as to ensure a highly available, high performance NTP service on a single IP address, without requiring any other device like load balancer</p>	<p>Clause Deleted</p>

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4	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>4. Hardware Requirements.</p> <p>-----</p> <p>II. Each system should have 2 X 1G and 2 x 10G Ethernet SFP+ Multimode Ports for Data Connectivity-</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>4. Hardware Requirements.</p> <p>-----</p> <p>II. Each system should have 2 interfaces of 4 X 1G each; or 2 x 1 G and 2 x 10G Ethernet SFP+ Multimode Ports for Data Connectivity -</p> <p>-----</p>
5	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>4. Hardware Requirements.</p> <p>-----</p> <p>III. Each system should have a dedicated Intelligent Platform Management Interface (IPMI) for out of band management</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>4. Hardware Requirements.</p> <p>-----</p> <p>III Each system should have either out of band management or inband management . These should be with separate interfaces for NTP and management.</p>
6	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>6. NTP Features</p> <p>IV. The NTP system should have capability to synchronize the system time with multiple sources like:</p> <ul style="list-style-type: none"> a) GPS L1 (1575.42 MHz) b) Internal oscillator like Rubidium atomic clock. c) Or any other source subject to approval by bank. <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>6. NTP Features</p> <p>IV. The NTP system should have capability to synchronize the system time with multiple sources like:</p> <ul style="list-style-type: none"> a) GNSS L1 (1575.42 MHz) b) Internal oscillator like Rubidium atomic clock. c) Or any other source subject to approval by bank. <p>-----</p>

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7	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>6. NTP Features</p> <p>V. The NTP system should support to up 32 Satellite tracking and T-RAIM satellite error management.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>6. NTP Features</p> <p>V. The NTP system should support up to minimum 32 Satellite tracking and T-RAIM satellite error management.</p> <p>-----</p> <p>-----</p>
8	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security</p> <p>I. The NTP system should have facility to mitigate any kind of network attack including DDoS and protect the system for providing update to genuine systems.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security</p> <p>I. The NTP system should have facility to mitigate any kind of network attack including DOS/DDoS and protect the system for providing update to genuine systems.</p> <p>-----</p> <p>-----</p>
9	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security</p> <p>III. The NTP system time source signal should not be spoofed or Jammed by attacker.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security</p> <p>III. The NTP system time source signal should not be spoofed and Jammed by attacker.</p> <p>-----</p> <p>-----</p>
10	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security</p> <p>IV. Support for NTS, DTLS records.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security</p> <p>IV. Support for NTS/ DTLS/TLS records.</p> <p>-----</p> <p>-----</p>

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11	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security VII. NTP appliance should have feature to authenticate itself as genuine time source.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>8. Security VII. NTP appliance should have feature to authenticate itself as genuine time source while connecting with NTP clients.</p> <p>-----</p> <p>-----</p>
12	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>9. Device Administration, Management and Reporting.</p> <p>-----</p> <p>-----</p> <p>II. Should support SFTP</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>9. Device Administration, Management and Reporting.</p> <p>-----</p> <p>-----</p> <p>II. Should support SFTP or WEB based secured mechanism or Any other secure method for file transfer and software upgrade.</p> <p>-----</p> <p>-----</p>

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13	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>9. Device Administration, Management and Reporting</p> <p>VII. The NTP system should provide the following web dashboard to provide the following information related to system status and management functions:</p> <p>a. Single-pane-of-glass enterprise management</p> <p>b. Detect system problems</p> <p>c. System firmware or image upgrade in secured manner example through SFTP</p> <p>d. Signal strength of GPS system and functional statistics of other components</p> <p>e. Count and monitoring of number of application or devices synchronizing time within network infrastructure.</p> <p>f. Other Performance statistics etc.</p> <p>-----</p> <p>-----</p>	<p>Annexure 10–Scope of Work</p> <p>-----</p> <p>-----</p> <p>B. Technical Specifications for Enterprise NTP Solution.</p> <p>-----</p> <p>-----</p> <p>9. Device Administration, Management and Reporting</p> <p>VII. The NTP system should provide the following web dashboard to provide the following information related to system status and management functions:</p> <p>a. Single-pane-of-glass enterprise management</p> <p>b. Detect system problems</p> <p>c. System firmware or image upgrade in secured manner example through SFTP or any other secured method</p> <p>d. Signal strength of GPS system and functional statistics of other components</p> <p>e. Count and monitoring of number of application or devices synchronizing time within network infrastructure.</p> <p>f. Other Performance statistics etc.</p> <p>-----</p> <p>-----</p>

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