




बैंक ऑफ बड़ौदा **Bank of Baroda**

Tender for supply/installation/integration/maintenance of Hardware Security Modules (HSM)

RFP Ref BST: IT: RRB-DC: NON-CBS-PROJ:109: 455 dated 8th Sept'17

Sr.No.	Clause in RFP		Clarifications/ Changes made
1	A. BRIEF PROJECT REQUIREMENT- Pg no.1	Product Description Quantity Hardware Security Module (HSM) with 50 TPS for UPI (Technical Specification as per Annexure – 1)	Network Hardware Security Module (HSM) RSA – 2048 - 4096 compliant with AES encryption (General Purpose) for Unified Payment Interface (Technical Specification as per Revised Annexure – 1)
2	L.UPTIME GUARANTEE- pg no.4/5 If Vendor fails to meet the uptime guarantee in any quarter then the Vendor will have to pay 1% of cost of the hardware as damages for every 1% downtime than the agreed 95% to a maximum of 10% damages during the Warranty / AMC period OR the warranty / AMC period will have to be extended by one month. The Vendor should immediately provide Bank with an equivalent standby system in case of failures. If Vendor fails to meet the uptime guarantee in any quarter then the Vendor will have to pay 1% of cost of the hardware as damages for every 1% downtime than the agreed 99% to a maximum of 10% damages during the Warranty / AMC period OR the warranty / AMC period will have to be extended by one month. The Vendor should immediately provide Bank with an equivalent standby system in case of failures.
3	Annexure-1 - Pg no.8/9/10	Technical Requirement of HSM	Please refer revised Annexure-1 as under:
Revised Annexure-1			
Sr.No.	Network Hardware Security Module (HSM) RSA – 2048 - 4096 compliant with AES encryption (General Purpose) for Unified Payment Interface- Technical Specifications	Complied	
		Y/N	Remark
1	Transaction per Second - Minimum 500 TPS with RSA 2048-4096 bit Key		
2	Implementation of future mandates regarding encryption algorithm or security stds -should support through S/W upgrades		
3	Security Certification - FIPS 140-2 level 3 or higher as per Industry stds.		
4	Power Supply - Dual Power supply for auto Power fail over feature		
5	Communication Interfaces - TCP/IP & UDP, Ethernet 10/100/1000 , Async, DUAL		
6	ETHERNET PORT (GIGA) for auto N/W fail over option.		
7	Cryptographic Support - DES,3DES,RSA,AES,ECC etc. without any additional cost to the Bank.		

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8	Centralized key distribution / automated remote key loading to access the key from remote location securely		
9	Remote Connectivity and Management : To be able to connect to HSM through WAN / LAN from remote server. Eg.: Switch application at DC should be able to connect to HSM at DR		
10	Backward Compatibility :		
a	OS : Windows, Linux, Solaris, AIX, HP-UX, Virtual, Vmware, Hyper-V, Xen		
b	Financial Industry Standards - UPI		
c	Security - Physical Security or Two factor User authentication or Multi user Authentication.		
11	Integration - To be integrated by the bidder with Bank's/RRBs UPI Service Provider successfully.		
12	Support period Minimum -5- Years (3 Yrs Warranty + 2 Yrs AMC)		
13	End of Life or Support Not before 5 Years from the date of successful installation & integration of the HSM with Bank's UPI Vendor		