



Social Islami Bank Limited
Logistic Support Division
Head Office, City Centre
90/1, Motijheel C/A, Dhaka-1000

Ref: SIBL/HO/LSD/2017/ 976

Date: 19.07.2017

A. TENDER FOR HARDWARE SECURITY MODULE (HSM) AND RELATED SOFTWARE FOR BANGLADESH AUTOMATED CLEARING HOUSE-II PROJECT.

(Visit website www.siblbld.com for details)

1	Name of the Bank	Social Islami Bank Limited		
2	Procuring Entity Name	Logistic Support Division		
3	Invitation of tender	HARDWARE SECURITY MODULE (HSM) AND RELATED SOFTWARE FOR BANGLADESH AUTOMATED CLEARING HOUSE-II PROJECT. For detail specifications, instruction & terms and conditions please scroll below or visit website www.siblbld.com		
4.	Invitation for Quotation Ref. & Date	SIBL/HO/LSD/2017/976 date:19.07.2017		
5	Procurement Method	Open Tendering Method		
6	Source of Fund	Social Islami Bank Limited		
7	Tender Last Selling Date	Not Applicable		
8	Date & Time for Submission, Closing & Opening of Tenders	Submission Date	Closing time	Opening Time
		01.08.2017	3 pm	3:30 pm
9	Name and address of the Office for receiving tender(s)	Senior Executive Vice President and Head Logistic Support Division Social Islami Bank Limited Level-29, City Centre, 90/1, Motijheel C/A, Dhaka-1000		
10	Time for Completion of Delivery	Within 10 days from the issuing date of work order.		
11	Place of opening tender documents	Social Islami Bank Limited, Level-29, City Centre, 90/1, Motijheel C/A, Dhaka-1000		
12	Eligibility of Tender	The bidder must have (a) valid email address (b) Valid Trade License (c) VAT Registration (d) TIN (e) Experience of Supplying, installing and commissioning to any private commercial Bank solvency (f) Principal address with e-mail and website (g) profile (h) import Export papers (i) Original brushier - the bidder must be solvent to execute any work order without receiving any advance bill from the bank. The bidder must not be a bankrupt.		
13	Price of tender document (non-refundable)	Tk. 3,000/- (three thousand) only for the software in the form of Payment Order (non-refundable) favoring "Social Islami Bank Limited". Tender document will be available in the website.		
14	Tender Security (Refundable)	Tk. 1,00,000/- in the form of Payment Order (Refundable) favoring "Social Islami Bank Limited". The interested bidders shall have to submit the price of Tender Document and Tender Security separately in the tender submission date.		
15	Address of Official Inviting Tender	Logistic Support Division Social Islami Bank Limited Level-29, City Centre, 90/1, Motijheel C/A, Dhaka-1000		
16	Contact Details	Telephone No. 09612001122- Ext 50299, email: lsd@sibl-bd.com		
17	Price	The rate shall be quoted in the bidders Letter Heads complying all specifications and terms and conditions of this tender. Incomplete tender/offer will be invalid. The bidders' tender shall be deemed to be inclusive of the costs of transportation, rigging, installation, testing, commissioning at the specified site and admissible VAT & Tax.		

18	Validity of tender	60 days
19	Mode of payment	The supplier will have to submit bill with original Mushak-11 Challan after supplying with a note of satisfaction/ certificate from the In-charge Information and Technology Division, SIBL, Head Office expressing clearly that the user office has no objection if LSD pays the bill. Payment may be made retaining 10% performance security money for 1(one) year from the commissioning date of the Machine(s) within 30 (thirty) days of receipt of complete bill with necessary documents subject to receiving of no objection certificate from the user & Information and Technology Division and approval of competent authority.
20	Performance Security	10% (ten percent) of the entire bill amount will be retained as performance security for 1 (one) year from the date of successful delivery and commissioning of the above items subject to clearance of our Information and Technology Division.
21	Special Instruction	The tender process will be guided as per Tender Bidding Policy of the bank and as per specific instructions and terms & conditions mentioned in the bank's website www.siblbd.com. The Bank Authority reserves the right to reject any or all quotations without assigning any reason and is not bound to select the lowest bidder. The bidder/supplier shall have no right to challenge the decision of the Bank's authority in any court of law or to any arbitrator.

Detail Specification:

Hardware Security Module (HSM) for Clearing House:			
1. <u>Safenet Network HSM 7000 model (Quantity: 1)</u>			
Sl	Description	Required Technical Specification	Bidder Response
1	Brand	To be mentioned by the bidder	
2	Model	To be mentioned by the bidder	
3	Country of Origin	To be mentioned by the bidder	
4	Country of Manufacturer	To be mentioned by the bidder	
5	Physical Characteristics	19 Inch Rack Mount with a maximum size of 1U along with rack mounting kit	
		Input Voltage – 230 V AC 50 Hz	
		Operating Temperature range must include 15 degree Centigrade to 35 degree centigrade	
		Operating humidity range must be better than 30 to 70 (RH) Non condensing at 35 degree centigrade	
		Protection against physical attacks such as use of potting of critical components, tamper evident security labels etc	

6	Supported operating systems	OS Support- Windows Server 2003, 2008,2012 and higher, Sun Solaris, HP-UX, IBM AIX, Linux / Solaris for x86,	
7	Virtual system Support	VMware, Hyper-V, Xen	
8	Host connectivity	Dual TCP/IP Network based appliance-Gigabit Ethernet Connectivity	
9	Safety, security and environmental compliance	Should comply to standards like FIPS 140-2 Level-3, CC EAL4+,ROHS,FCC part 15 Class B	
10	Secure Transport Mode	The HSM should support secure transport mode i.e. Temporary tamper state to insure security when HSM is being moved from one facility to another	
11	Cryptographic Standards	Full Suite B support	
		Asymmetric: RSA (1024-8192), DSA (1024-3072), Diffie- Hellman, KCDSA, Elliptic Curve Cryptography (ECDSA, ECDH, ECIES) with named, user-defined and Brainpool Curves	
		Symmetric: AES, RC2, RC4, RC5, CAST, DES, Triple DES, ARIA, SEED Hash/Message Digest/HMAC: SHA-1, SHA-2 (224-512), SSL3-MD5-MAC, SSL3-SHA-1-MAC	
		Random Number Generation: FIPS 140-2 approved DRBG (SP 800-90 CTR mode)	
12	Cryptography ECC	Full Suite B implementation with fully licensed Elliptic Curve Cryptography (ECC), ECDSA and ECDH	
13	Cryptographic module security	Compliance to FIPS 140-2 Level 3	
14	Application Interfaces (APIs)	Compatibility: PKCS#11, CAPI, OpenSSL, JCE/JCA	
15	Key Generation and Storage	Ability to generate and store RSA keys (2048 and 4096) on board on demand. Complete hardware based storage of key material for entire Life cycle	
		Keys are always in Hardware and never stored in Software in any form, even during backup. Should have secure hardware to hardware backup only.	
	Speed	Signing speed: RSA 2048 bit – at least 1200 Signatures/seconds	
16	Load Balancing	Clustering, Load-Balancing	
17	Key Synchronization	Synchronization of keys between two HSMs on real-time basis (without backup device)	
18	Key back up	Contents can be securely stored on backup device to simplify backup, cloning and disaster recovery	
19	Key Processes	Onboard key generation, Digital Signing & Verification process to be done inside the HSM only, for better performance and security	
20	HSM Role Authentication Process	All HSM Roles should be Authenticated using a PIN Entry Device (PED) which uses dual Authentication with a known PIN and a USB Dongle for all HSM Roles.	
		The HSM should support Remote PIN Entry Device (PED) for easier administration of HSM's located in far DR and near DR.	

21	Support for multiple HSMs	Multiple HSMs should be supportable for DR, key backup, key update, and key processes, load balancing and failover	
22	Power source	Dual hot-swap power supplies, field serviceable	
23	Monitoring	Storing of event based audit logs and standard mechanisms for viewing logs	
24	Reliability	MTBF: Minimum 40000 hrs	
25	Licenses	Supply should include all the necessary licenses required for meeting the above specifications.	
26	Training	Product related full system administration training from OEM or certified solution center for 3 people.	
27	Support	Should provide new version upgrades, updates, patches, etc. for all the components / sub- components through the period of contract. 24/7 telephonic and email OEM support.	
28	Warranty	At least 3 years onsite warranty with full labor, parts & replacement with 24X7 Support	

2. Safenet Network HSM 1700 model (Quantity: 1)

SI	Description	Required Technical Specification	Reference & Response
1	Brand	To be mentioned by the bidder	
2	Model	To be mentioned by the bidder	
3	Country of Origin	To be mentioned by the bidder	
4	Country of Manufacturer	To be mentioned by the bidder	
5	Physical Characteristics	a) 19 Inch Rack Mount with a maximum size of 1U along with rack mounting kit.	
		b) Input Voltage – 230 V AC 50 Hz.	
		c) Operating Temperature range must include 15 degree Centigrade to 35 degree centigrade.	
		d) Operating humidity range must be better than 30 to 70 (RH) Non-condensing at 35 degree centigrade.	
		e) Protection against physical attacks such as use of potting of critical components, tamper evident security labels etc.	
6	Supported operating systems	OS Support- Windows Server 2008, 2012, Sun Solaris, HP-UX, IBM AIX, Linux / Solaris for x86,	
7	Virtual system Support	VMware, Hyper-V, Xen	
8	Host connectivity	Dual TCP/IP Network based appliance-Gigabit Ethernet connectivity	
9	Safety, security and environmental compliance	Should comply to standards like FIPS 140-2 Level-3, CC EAL4+,ROHS,FCC part 15 Class B	
10	Secure Transport Mode	The HSM should support secure transport mode i.e.	
		Temporary tamper state to insure security when HSM is being moved from one facility to another	

11	Cryptographic Standards	a) Full Suite B support	
		b) Asymmetric: RSA (1024-8192), DSA (1024-3072), Diffie-Hellman, KCDSA, Elliptic Curve Cryptography (ECDSA, ECDH, ECIES) with named, user-defined and Brainpool curves	
		c) Symmetric: AES, RC2, RC4, RC5, CAST, DES, Triple DES, ARIA, SEED Hash/Message Digest/HMAC: SHA-1, SHA-2 (224-512), SSL3-MD5-MAC, SSL3-SHA-1-MAC	
		d) Random Number Generation: FIPS 140-2 approved DRBG (SP 800-90 CTR mode)	
12	Cryptography ECC	Full Suite B implementation with fully licensed Elliptic Curve Cryptography (ECC), ECDSA and ECDH	
	Cryptographic module security	Compliance to FIPS 140-2 Level 2	
	Application Interfaces (APIs)	Compatibility: PKCS#11, CAPI, OpenSSL, JCE/JCA	
	Key Generation and Storage	Ability to generate and store RSA keys (2048 and 4096) on board on demand. Complete hardware based storage of key material for entire Life cycle Keys are always in Hardware and never stored in Software in any form even during backup. Should have secure hardware to hardware backup only.	
	Speed	Signing speed :RSA 2048 bit – at least 300 Signatures/seconds	
13	Load Balancing	Clustering, Load-Balancing	
14	Key Synchronization	Synchronization of keys between two HSMs on real-time basis (without backup device)	
15	Key backup	Contents can be securely stored on backup device to simplify backup, cloning and disaster recovery	
16	Key Processes	Onboard key generation, Digital Signing & Verification process should be done inside the HSM only, for better performance and security	
17	Support for multiple HSMs	Multiple HSMs should be supportable for DR, key backup key update, and key processes, load balancing and failover	
18	Power source	Dual hot-swap power supplies, field serviceable	
19	Monitoring	Storing of event based audit logs and standard mechanisms for viewing logs	
20	Reliability	MTBF: Minimum 40000 hrs	
21	Licenses	Supply should include all the necessary licenses required for meeting the above specifications.	
22	Support	Should provide new version upgrades, updates, patches, etc. for all the components / sub- components through the period of contract. 24/7 telephonic and email OEM support infrastructure based out of Bangladesh	
23	Training	Product related full system administration training from OEM or certified solution center for 3 people.	
24	Warranty	At least 3 years onsite warranty with full labor, parts & replacement with 24X7 Support	

3. Microsoft Windows Server 2016 with 64 bit Standard Edition (Eight Core) :

WinSvrSTDCore 2016 SNGL OLP 2 Lic NL CoreLic : Quantity: 3

WinSvrCAL 2016 SNGL OLP : Quantity: 5

4. Microsoft SQL Server 2016 Standard Release Candidate 3 (RC3), Eight Core :

SQLSvrStdCore 2016 SNGL OLP 2 Lic NL CoreLic

A. Financial Proposal:

SL	Part Number	Qty	UoM	Unit Price in BDT (Inclusive of VAT & Tax)	Total Price in BDT (Inclusive of VAT & Tax)
1	Safenet Network HSM 7000 model	1	No		
2	Safenet Network HSM 1700 model.	1	No		
3	Microsoft Windows Server 2016 with 64 bit Standard Edition (Eight Core)	3	No		
4	Microsoft SQL Server 2016 Standard Release Candidate 3 (RC3), Eight Core	1	No		
	Total Price (inclusive of all relevant charges and / or costs, if any)				

(Md. Akbar Ali)

Senior Executive Vice President

Logistic Support Division

Phone- 09612001122 Ext- 50290

E-mail address: lsd@sibl-bd.com

