

MMBPLC/HO/CSD/RFQ/2025/10/054

27/10/2025

Subject: Request for Quotation (RFQ) for procuring Hardware Security Modules (HSMs) for BACH & NIKASH System of Modhumoti Bank PLC.

Dear Sir,

This is to inform you that, Modhumoti Bank PLC. is going to procure **Hardware Security Modules (HSMs) for BACH & NIKASH System**. In this connection, we would request you to submit a Technical & Financial response as per our detailed Technical Specification and Bill of Quantity (BOQ).

SL No	Name of Item	Description	Compliance& Bidder Response (Y/N)
1	Brand	Thales	
2	Model	Network HSM A700	
3	Partitions	Minimum 5(five) partitions, each partition should be active from Day-01.	
4	Cryptographic interfaces	- Full Suite B support • Asymmetric: RSA, DSA, Diffie-Hellman, Elliptic Curve Cryptography (ECDSA, ECDH, Ed25519, ECIES) with named, user-defined and Brainpool curves, KCDSA, and more. • Symmetric: AES, AES-GCM, Triple DES, DES, ARIA, SEED, RC2, RC4, RC5, CAST, and more • Hash/Message Digest/HMAC: SHA-1, SHA-2, SHA-3, SM2, SM3, SM4 and more • Key Derivation: SP800-108 Counter Mode • Key Wrapping: SP800-38F • Random Number Generation: designed to comply with AIS 20/31 to DRG.4 using HW based true noise source alongside NIST 800-90A compliant CTR-DRBG • Digital Wallet Encryption: BIP32	
5	Supported Operating Systems	Windows, Linux, Solaris, AIX Virtual: VMware, Hyper-V, Xen, KVM.	
6	API Support	PKCS#11, Java (JCA/JCE), BouncyCastle API's should be supported REST API for administration. Should support Customized and Validated Firmware and API for BACH II	
7	Partitions	Should support partitioning of FIPS 140-2 certified HSM memory into completely isolated divisions and not just logical partitioning in associated software with each partition managed by their own Security Officer and Crypto Officer Roles and having independent security policies that can be managed. From Day one 5 partition for each HSM will be activate.	
8	Security Certifications	• FIPS 140-3 Level 3 in ACTIVE status– PASSWORD Based authentication • Common Criteria EAL4+ (AVA_VAN.5 and ALC_FLR.2) against the Protection Profile EN 419 221-5 • Qualified Signature or Seal Creation Device (QSCD) listing for eIDAS compliance • Singapore NITES Common Criteria Scheme	
9	Performance Capacity	Signing performance of 1000 TPS for RSA 2048	
10	Authentication Method	PASSWORD Based	
11	Host Interface	Min. 4 x 1G with Port Bonding	
12	Physical Characteristics	Standard 1U 19in. rack mount appliance	
13	Safety & Environmental Compliance	• UL, CSA, CE • FCC, CE, VCCI, C-TICK, KC Mark • RoHS2, WEEE • TAA • BIS [IS 13252 (Part 1)/IEC 60950-1]	
14	Reliability	• Dual hot-swap power supplies • Field-serviceable components • Mean Time Between Failure (MTBF) at least 170000 Hours • HSM should provide Protection against physical attacks through the monitoring of voltage and temperature (and abortion of any operation if voltage or temperature outside the expected range) • HSM should have Detection of cover removal in addition to Alarm triggers for motion, voltage and temperature	
15	Management & Monitoring	• HA disaster recovery. • SNMP & Syslog • Backup and restore system using the existing Backup HSM	
16	Backup	HSM should be compatible with existing Backup HSM Devices available with the bank and should be usable with the provided HSM for backup and recovery.	
17	Key Migration	Provided HSM should support Key Migration from existing HSM model in a FIPS 140-2 compliant manner without the keys coming out in clear for BACH	
18	Warranty	3 years warranty with 24x7 Telephonic and Email provided directly from OEM	
19	Installation, Testing and Commissioning	Bidder must carry out on site installation, testing and commissioning. Bidder must configure appropriate security and administration related policies. Bidder has to provide all kind of accessories including patch cord to establish all kind of connections	
20	OEM Confirmation	Awardees vendor will have to submit Thales authorized MAF from OEM on the network HSM for BACH-II project	
21	BB Confirmation	HSM Should support BACH (officially approved by Bangladesh Bank), Nikash & IDTP Platform	

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22	Local Partner Support	Dedicated 24/7 support team of OEM and local partner presence in Bangladesh with certified resources, as well as should have RMA material in Dhaka	
23	Training	Awardee vendors have to arrange a training session from OEM authorized training center on overview of the HSM for 3(three) banks personnel.	
24	Load balancing capability	HSM must support load balancing & Auto Failover capability without any external load balancer	
25	Use Case	Both BACH and Nikash as well as IDTP & RTGS applications should be supported to operate using the same HSM with same make and model without the need to procure any additional devices for these use cases.	
26	Key Replication	HSM should support automatic key replication between the HSMs part of the same High Availability group and without requiring applications to restart.	
27	Migration	Provided HSM should support Key Migration from existing HSM model (PASSWORD – AUTH) in a FIPS 140-2 compliant manner without the keys coming out in clear for BACH.	
28	Active Customer Base	Bidder must provide at least 10 references where the OEM's product is currently being used in Production	
29	Trained Resources	Bidder should have trained and certified resources locally in Bangladesh. Certified resources must have hands on experience of implementing HSM for BACH, Nikash system. Certificates of resources and UAT report at least from 2 Banks where bidder has implemented HSM for BACH and Nikash system need to be submitted.	
30	Delivery Timeline	Within 60 working days from the date of receiver of formal work order.	

General Terms and Conditions:

- 1) Purchaser's Right: The Purchaser reserves the right to accept/ cancel/ reject any or all offer without assigning any reason. The Purchaser is not obliged to purchase the lowest offer or any offer at all. The Purchaser reserves the right to share the Bidder's response to this RFQ with its advisors and Purchaser Business Units. Purchaser reserves the right to conduct negotiations with one or more Bidder and/or accept the Bid without any negotiations.
- 2) Bid Submission/ Closing Date: The Quotation shall be submitting (Sealed Condition) to the below mentioned Address: Chairman Purchase Committee, in the tender box kept at Front Desk (7th Floor, 94 Gulshan Avenue, Dhaka-1212) of Modhumoti Bank PLC. on 10th November, 2025, by 4:00 PM. The Purchaser reserves the right to reject any Quotation submitted after the Closing Date. The Purchaser reserves the right to change the Time schedule at any time.
- 3) Required Content of the Quotation: Quotation must be submitted as per prescribed form as instructed below:
 - a. Proposal must be addressed for "Chairman Purchase Committee" of Modhumoti Bank PLC.
 - b. Complete proposal/offer must be signed with date by the authorized representative of the company.
- 4) Quotation Validity: The Quotation shall be valid for 90 calendar days from the Quotation submission/ closing date.
- 5) Manipulation or any kind of unusual approach or failure to submit the proposal/offer within stipulated time frame will be treated as "Disqualification" to attend in the bidding.
- 6) A qualified and valid PMP Certified Project Manager has to be assigned to complete the project in time and quality. Proposed Project Manager's CV has to be submitted along with the bid document.
- 7) The bidder shall have a minimum of 3(Three) years of experience in the similar work, supply of goods and related services.
- 8) Tenderer must have experience in successfully supplying of similar goods and related services under minimum 1 (One) work order, with a minimum value of BDT. 1,00,00,000/= One Crore within the last 3 (Three) years in Bank/ Govt/NBFI/Reputed Organization. Satisfactory successful work compliance certificate should submit along with RFP document.
- 9) Manufacturer's authorization letter should be submitted of all Major Products in the bid documents.
- 10) Copy of Updated Trade License, Income TAX certificate, BIN certificate, VAT certificate, Bank Solvency Certificate.

Commercial Terms and Conditions:

1. Price: The quoted price should include applicable VAT. The rate of VAT should be mentioned in the quotation and All items should be offered in BDT (For any partial items of both projects, whole offer will be rejected).
2. Delivery Place: Dhaka, Bangladesh.
3. Payment Terms: Payment will be made after Final Acceptance (FAC will be given after successful delivery) & upon submission of the bill with work order & original challan which is duly signed by authorized personnel (Name & Seal, if available). Payment will be made through Bank Account only.
4. Price Submission: The bidder shall have to submit the price in the letter head pad.

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5. The Bidder shall have to submit their proposal as per the format attached with the RFQ. Any proposal not following the format will be considered as disqualify and will not consider for evaluation.

Note: For technical issues, please communicate with MMBL ICT Division.

S. M. Shahin Iqbal

**VP & Head of
Common Services Division**