

Annexure 01

TECHNICAL SPECIFICATION

Procurement of Secondary Firewall for High Availability (HA) Cluster | Firewall Redundancy Project for Survey Department

1.0 PURPOSE OF PROCUREMENT

The Department of Survey operates an existing Sophos XGS 3100 firewall at its Head Office. To ensure business continuity and network resilience, the Department requires a second, identical Sophos XGS 3100 hardware appliance to establish an Active-Passive High Availability (HA) cluster.

This model specification is technically required to ensure seamless HA clustering with the existing deployed unit and to enable license inheritance under Sophos HA policy.

2.0 CRITICAL REQUIREMENTS SUMMARY

#	Requirement	Details
1	Brand	Sophos
2	Model	XGS 3100 (non-wireless, no "w" suffix)
3	Hardware Revision	Must match existing unit – bidder to inspect prior to bidding
4	Procurement Type	Hardware only – no software license required
5	Configuration	Must form Active-Passive HA cluster with existing unit
6	Integration Responsibility	Winning bidder fully responsible for successful HA setup
7	Commencement Date	Warranty and support start from successful commissioning date

3.0 DETAILED TECHNICAL SPECIFICATIONS

Ref	Minimum Requirement	Performance / Value	Compliance ✓ / ✗	Bidder Specification / Details	Remarks
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1.0 Brand, Model & Compatibility

1.1	Brand: Sophos				Must match existing deployed ecosystem for Synchronized Security
1.2	Model: XGS 3100				Mandatory for HA clustering compatibility
1.3	Hardware Revision must be identical to existing unit				Bidder required to inspect existing unit or serial number prior to bidding to ensure revision compatibility
1.4	Hardware must be officially supported by OEM for HA pairing with existing XGS 3100				Bidder to confirm OEM compatibility in writing
1.5	Form Factor: 1U rackmount appliance with mounting ears included				Data center standard

2.0 Performance Requirements

All performance values must meet or exceed the existing production unit:

2.1	Firewall Throughput	≥ 47 Gbps			Hardware capability – verified from datasheet
2.2	NGFW Throughput	≥ 9 Gbps			With all security features enabled
2.3	IPS Throughput	≥ 10.5 Gbps			Intrusion prevention system throughput
2.4	Threat Protection Throughput	≥ 7.4 Gbps			Includes IPS, AV, web protection
2.5	SSL Inspection Throughput	≥ 2.4 Gbps			Xstream TLS inspection capability
2.6	IMIX Throughput	≥ 23.5 Gbps			Mixed traffic performance
2.7	New Connections per Second	≥ 186,500			Session establishment rate
2.8	Concurrent Connections	≥ 12,260,000			Maximum simultaneous sessions
2.9	IPsec VPN Throughput	≥ 25 Gbps			VPN performance
2.10	IPsec VPN Tunnels	≥ 6,500			Concurrent tunnel support
2.11	SSL VPN Tunnels	≥ 5,000			Concurrent remote access users

3.0 Physical Interfaces

3.1	GbE Copper Ports	8 x GbE Copper			Fixed interfaces
3.2	Bypass Port Pair	1 x Bypass port pair			Required for HA fail-safe operation
3.3	SFP Fiber Ports	2 x SFP			Fiber connectivity
3.4	Interface configuration must match existing deployed XGS3100 unit, including any installed Flexi modules				Critical for HA – bidder to verify current configuration
3.5	Management Ports	1x RJ45 MGMT, 1x COM RJ45, 1x Micro-USB			Out-of-band management
3.6	USB Ports	2x USB 3.0 (front), 1x USB 2.0 (rear)			For local access
3.7	Expansion Slot	1 x Flexi Port slot			Future scalability
3.8	Storage	240 GB SATA-III SSD (minimum)			For on-box logging and reporting
3.9	Power Supply	Standard internal PSU included			
3.10	Redundant Power Supply	Optional – bidder to quote separately if available			For power redundancy if required

4.0 High Availability (HA) Requirements

4.1	Must support Active-Passive HA mode				Stateful failover required
4.2	Must support real-time configuration synchronization				Primary and secondary remain identical
4.3	Must support session/state synchronization				Active connections preserved during failover
4.4	Must support HA-Auxiliary license sharing				No duplicate subscription required – secondary unit inherits license from primary
4.5	Failover time as per OEM specification for Stateful Active-Passive HA				Do not specify absolute value – rely on OEM standard

1.0 Brand, Model & Compatibility

5.0 Integration Requirements

5.1	Must integrate with existing Sophos Central account				Serial number linking required
5.2	Must support Sophos Security Heartbeat				Integration with existing Sophos endpoint deployment
5.3	Must support centralized cloud management				For unified audit logging and policy management
5.4	Must support Synchronized Security with existing Sophos ecosystem				Mandatory for full security posture

6.0 Support & Warranty

6.1	Hardware Warranty: Minimum 3-year with Advanced RMA (Next Business Day or better)				More precise warranty requirement
6.2	24x7 OEM Support Eligibility				Must be eligible for Sophos direct support
6.3	Bidder shall verify if the existing primary unit's support tier requires an upgrade to 'Enhanced Plus' to cover the secondary HA hardware under Advance RMA, and include this upgrade in the bid if necessary				Critical for hardware replacement coverage
6.4	Firmware Updates Entitlement				Covered under existing subscription
6.5	Bidder must confirm compatibility with current firmware version deployed in production				Prevents firmware mismatch failure

7.0 MANDATORY BIDDER RESPONSIBILITIES

Ref	Responsibility Description	Performance / Value	Completion Date	Bidder Acknowledgement	Remarks
7.1	Supply brand new, factory-sealed OEM hardware.				No refurbished or demo units accepted.
7.2	Ensure firmware parity. If the new unit arrives with a different firmware version, the bidder is responsible for upgrading/downgrading either unit to achieve a matching, stable version before HA configuration.				Prevents HA join failure.
7.3	Perform physical installation at designated location.				Head Office server room.
7.4	Configure HA clustering with existing firewall.				Including firmware alignment.
7.5	Conduct comprehensive failover testing.				Documented test results to be provided.
7.6	Link new device serial number to existing Sophos Central account.				Enables license inheritance.
7.7	Provide commissioning report.				Signed off by Department technical team.
7.8	Bidder shall act as the single point of contact for all HA configuration, integration, and OEM escalation matters related to the supplied unit.				Comprehensive accountability.
7.9	Complete commissioning within proposed timeline.				Timeline to be submitted in bid.

8.0 LICENSING STATEMENT

Department License Status:	The Department already owns a valid Sophos software license (Xstream Protection bundle / applicable subscription) for the existing XGS 3100 firewall.
Sophos HA Licensing Policy	In an Active-Passive HA configuration, Sophos licensing policy permits the secondary unit to operate in HA-Auxiliary mode, inheriting the license from the primary unit.

CRITICAL – Bidder Obligation:- Bidders must NOT include any software license or subscription costs in their quotations. Quotations including software licenses will be considered NON-COMPLIANT and disqualified.

9.0 COMPLIANCE DECLARATION

The bidder must complete the "Compliance" and "Bidder Specification/Details" columns above and sign the following declaration:

"We confirm that the offered Sophos XGS 3100 hardware unit meets or exceeds all technical specifications listed above. We have verified the hardware revision and interface configuration of the existing unit. We accept full responsibility for successful HA integration with the existing firewall, including firmware alignment, configuration, testing, and commissioning. We have verified whether Enhanced Plus support is required and included it if necessary. We confirm that no software license costs are included in our quotation. We understand that warranty and support commence from the successful commissioning date."

Company Name:	
Authorised Signatory (Name & Title):	
Signature:	
Date:	
Company Stamp / Seal:	
Contact Number:	
Email Address:	

Bidder's Signature

Company Name & Seal

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