The Lawrence School

Lovedale, The Nilgiris - 643003

NOTICE INVITING TENDERS

Tender for Supply, Laying, Installation, Testing and Commissioning of Optical Fibre Cable Network and Implementation of VLAN-Based Network Segmentation for the Seven Campuses of The Lawrence School, Lovedale.

The Lawrence School

Tender notice

Notice Inviting Tender No	**NIT/LSL/IT/005/2026-27**
Tender Inviting Authority	The Lawrence School, Lovedale
Place of availability of Tender Documents (NIT)	www.thelawrenceschool.org/tenders
The contact Person	Mr. Krishna Kumar (HOD – IT Department)
Name of the Project Work	**Supply, Laying, Installation, Testing and Commissioning of Optical Fibre Cable Network and Implementation of VLAN-Based Network Segmentation**
Address to send Prebid queries	pc@thelawrenceschool.org and ceit@thelawrenceschool.org
Place for submission of bids	The Lawrence School, Lovedale
Nature of bid process	Limited Tender Enquiry

LSL would endeavour to adhere to the following schedule:

Event	Date – Deadline
Notice Inviting Tender No	NIT/LSL/IT/005/2026-27
Release of NIT	03.11.2026
Pre – bid queries (On Call)	04.11.2026 to 13.11.2026
Last date and time for submission of bids	16.11.2026
Technical and Finance Bid opening	Will be informed through email

Telephone: 0423 2453300

email: pc@thelawrenceschool.org,
ceit@thelawrenceschool.org

The School reserves the right to modify the tender schedule, seek clarifications, reject any or all proposals, cancel the procurement process, or award the work in whole or in part, without assigning any reason, subject to applicable rules and the terms of this NIT.

The Lawrence School

DISCLAIMER:

The information contained in this NIT document or subsequently provided to Vendor/Supplier, whether in document or verbal or any other form by or on behalf of The Lawrence School, Lovedale, Ooty, Tamil Nadu, any of its employees or advisors, is provided to Vendor/Supplier on the terms and conditions set out in this NIT document and such other terms and conditions subject to which such information is provided.

The purpose of this NIT document is to provide interested parties with information that may be useful to them in eliciting their proposals pursuant to this NIT document. This Tender document may not be appropriate for all persons, and it is not possible for the School, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this NIT document.

This NIT document includes statements, which reflect various assumptions and assessments made by the School in relation to the Contract. Such assumptions, assessments and statements do not purport to contain all the information that each Vendor/Supplier may require.

The assumptions, assessments, statements and information contained in this NIT document, may not be complete, accurate, adequate or correct. Each Vendor/Supplier should, therefore, conduct his/her own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this NIT document and obtain independent advice from appropriate sources.

Information provided in this document to the Vendor/Supplier is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The School accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The School, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Vendor/Supplier under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this NIT document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the NIT document and any assessment, assumption, statement or information contained therein or deemed to form part of this NIT document or arising in any way in this NIT Stage.

The Lawrence School

INDEX

S. No.	Particulars
1	Scope of the Tender
2	Background and Project Objective
3	VLAN Network Architecture and Segregation – Detailed Explanation
4	Detailed Scope of Work
5	Technical Specifications
6	Optical Fibre Installation Requirements
7	Core and Managed Switch Requirements
8	VLAN, IP Addressing, Routing and Security Requirements
9	Testing, Commissioning and Acceptance
10	Documentation, Training and Handover
11	Eligibility Criteria
12	Bid Submission and Evaluation
13	Commercial / BOQ Format
14	General Terms and Conditions
15	Warranty, Support and Maintenance
Annexure I	Vendor Information Sheet
Annexure II	Technical Compliance Sheet
Annexure III	Bill of Quantities / Price Schedule
Annexure IV	Site Survey and Handover Checklist

The Lawrence School

1. SCOPE OF THE TENDER

The Lawrence School, Lovedale invites sealed/online tenders from eligible and experienced Networking System Integrators for the supply, laying, installation, termination, splicing, testing and commissioning of a structured Optical Fibre Cable (OFC) backbone network and implementation of a Layer-3 VLAN-based network architecture across seven campuses of the School.

The work shall be on a complete turnkey basis. The successful bidder shall be responsible for site survey, detailed network design, supply of all required active and passive networking equipment, underground OFC laying, HDPE/appropriate protective ducting, fibre termination, splicing, LIU/ODF installation, racks and accessories, installation and configuration of one L3 Core Switch and ten (10) managed network switches, VLAN configuration, inter-VLAN routing and access-control policies, testing, documentation, training and final handover.

The bidder shall include all materials, consumables, tools, transportation, labour, civil work, reinstatement, testing instruments and other accessories necessary for a complete and operational system, whether or not every minor item is individually listed in the BOQ.

2. BACKGROUND AND PROJECT OBJECTIVE

The School operates multiple campus areas requiring reliable and secure network connectivity. The proposed project is intended to establish a resilient fibre-based backbone and logically segregate different categories of network traffic so that essential services can operate independently without unnecessary access between user groups.

- Create a high-speed optical fibre backbone connecting the seven campuses / network locations.
- Provide a central Layer-3 core for controlled routing and policy enforcement.
- Segregate Official Internet, CCTV, Student Internet and Staff Quarters Internet traffic using VLANs.
- Prevent unauthorised access between the four network services.
- Provide a scalable architecture for future access points, computers, CCTV cameras, IoT devices and other network-enabled systems.
- Provide proper labelling, documentation and test results for long-term maintenance.

The Lawrence School

3. VLAN NETWORK ARCHITECTURE AND SEGREGATION – DETAILED EXPLANATION

A Virtual Local Area Network (VLAN) is a logical network created within the physical switching infrastructure. VLANs allow the School to use the same physical fibre backbone and switching infrastructure while keeping different categories of devices and users in separate logical networks. Traffic from one VLAN does not automatically become accessible to another VLAN.

For this project, four distinct network services shall be created and maintained throughout the seven campuses. The logical separation shall be enforced at the Layer-3 core through routing policies, Access Control Lists (ACLs) and appropriate firewall/Internet gateway integration. The physical fibre backbone shall carry tagged VLAN traffic between the campuses/locations, while access ports shall be assigned to the appropriate service VLAN.

Network Type	Purpose	Required Isolation / Access
VLAN – Official Internet Service	Administrative, official and authorised institutional computers/devices.	Internet access as authorised. Access to network management resources may be permitted. Shall remain isolated from Student and Staff Quarters networks.
VLAN – CCTV Camera Network	IP CCTV cameras, NVR/VMS and associated surveillance equipment.	No general Internet access. Camera traffic shall be isolated from student/staff networks. Access to NVR/VMS shall be permitted only from authorised management/admin systems.
VLAN – Student Internet Service	Student computers, tablets, Wi-Fi and other student-use devices.	Internet access as per School policy. No direct access to CCTV or Staff Quarters network. Access to administrative resources shall be restricted by ACL/policy.
VLAN – Staff Quarters Internet Service	Internet connectivity for staff residential quarters.	Internet access as authorised. No direct access to CCTV or student network and no unauthorised access to official network resources.

Seven-Campus Segregation: The bidder shall design the VLAN and IP addressing plan so that the four service categories remain logically segregated across all seven campuses. The preferred design is to maintain separate campus/service segments, resulting in up to twenty-eight logical

The Lawrence School

service segments (7 campuses × 4 services), while allowing the School to centrally manage the network through the L3 core. The bidder may propose an equivalent or superior architecture, provided that the four service categories and campus-level isolation are demonstrably maintained.

Example logical allocation (illustrative only): Campus 1 may use VLANs 101–104, Campus 2 VLANs 201–204, and so on. The final VLAN IDs, IP subnets, gateway addresses and routing policies shall be approved by the School before commissioning.

3.1 Required Traffic Policy

- Official Internet VLAN shall not have unrestricted access to Student, CCTV or Staff Quarters VLANs.
- Student VLAN shall not communicate directly with CCTV devices or Staff Quarters devices.
- Staff Quarters VLAN shall be internet-only unless a specific exception is approved by the School.
- CCTV VLAN shall be isolated from general Internet traffic. Cameras shall communicate only with approved NVR/VMS/management endpoints.
- Only authorised management/admin devices shall be permitted to access network equipment management interfaces.
- Inter-VLAN routing shall be disabled by default and enabled only where a documented business requirement exists.
- All ACLs, routing rules and exceptions shall be documented and handed over to the School.

3.2 Conceptual Network Flow

ISP / Internet Gateway → Firewall/Router → L3 Core Switch → Fibre Backbone → Managed Access/Distribution Switches → End Devices / Wi-Fi / CCTV / NVR / Staff Quarters.

The physical fibre network shall carry the required VLANs as tagged traffic. The managed switches shall assign end devices to the appropriate access VLAN. The L3 core shall provide controlled inter-VLAN routing and policy enforcement. Where the School's existing firewall/router provides Internet security, the bidder shall coordinate the VLAN-to-firewall integration and ensure that routing and NAT policies are correctly configured.

The Lawrence School

4. DETAILED SCOPE OF WORK

- Conduct a mandatory physical site survey of all seven campuses and prepare a route survey, fibre route drawing and network topology before commencement.
- Prepare a detailed implementation plan showing fibre routes, duct routes, termination points, racks, core location, switch locations, power requirements and proposed VLAN/IP architecture.
- Supply and install outdoor-rated, armoured Optical Fibre Cable of suitable fibre count and type as determined from the site survey and approved design. The bidder shall recommend adequate spare cores for future expansion.
- Lay the OFC underground in suitable HDPE/approved protective ducting with proper trench depth, warning tape/marker system and protection at road crossings, drains and vulnerable locations.
- Provide all excavation, soft/hard soil cutting, duct laying, sand bedding where required, backfilling, compaction and restoration of disturbed surfaces.
- Provide fibre handholes/manholes/junction arrangements wherever required by the route design, including suitable protection and identification.
- Terminate and splice all fibres at both ends using suitable LIU/ODF, pigtails, adapters, splice trays and patch cords.
- Supply and install one enterprise-grade Layer-3 Core Switch and ten (10) managed network switches, including all required SFP/SFP+ modules and fibre patching accessories.
- Configure VLANs, trunk links, access ports, inter-VLAN routing, ACLs, STP/RSTP/MSTP, LACP where required, management VLAN and other network features.
- Integrate the four network services across seven campuses and ensure that the agreed security/segregation policy is operational.
- Configure uplinks between the L3 core and managed switches over optical fibre, with redundant/alternate links wherever the approved topology provides them.
- Provide racks, cable managers, power distribution units, patch panels/LIUs, labels, patch cords and all necessary installation accessories.
- Perform fibre splicing, termination, OTDR testing, power-loss testing and certification of every installed fibre link.
- Perform end-to-end VLAN connectivity and isolation testing for all seven campuses.
- Provide configuration backup files, network diagrams, IP/VLAN schedule, switch port map, fibre core allocation, test reports and as-built documentation.
- Provide hands-on training to designated School IT personnel.
- Rectify all defects identified during testing and acceptance at no additional cost.

The Lawrence School

5. TECHNICAL SPECIFICATIONS

5.1 Optical Fibre Cable

Parameter	Minimum Requirement
Cable Type	Outdoor armoured OFC suitable for underground installation
Fibre Type	Single-mode, OS2 or equivalent, unless the approved site design requires otherwise
Fibre Count	Minimum 12-core recommended; final count shall be based on approved design with adequate spare capacity
Construction	Armoured, outdoor-rated, rodent/moisture-resistant suitable for buried installation
Operating Environment	Suitable for outdoor/hill-area conditions and the School's local environment
Termination	Rack-mounted LIU/ODF with splice tray, adapters and pigtails
Splicing	Fusion splicing by trained technicians
Testing	OTDR and optical power-loss testing with reports
Labelling	Both ends, intermediate points and route markers shall be permanently labelled

5.2 L3 Core Switch – Minimum Requirements

Feature	Minimum Requirement
Type	Enterprise-grade Layer-3 managed switch
Ports	Minimum 48 × Gigabit Ethernet or equivalent capacity; sufficient SFP/SFP+ uplinks for all fibre links and expansion
VLAN	802.1Q VLAN, VLAN trunking, access VLAN and native/management VLAN support
Routing	Layer-3 routing, static routes and appropriate dynamic routing capability
Security	ACLs, port security, DHCP snooping and other enterprise security features
Loop Prevention	STP/RSTP/MSTP
Link Aggregation	LACP / 802.3ad
Management	Web/CLI/SNMP/secure management as supported by OEM
QoS	Traffic classification and QoS support
IPv6	IPv6 management/routing support preferred
Redundancy	Power/stack/virtual chassis or equivalent redundancy features where available

The Lawrence School

5.3 Managed Network Switches – 10 Nos.

Feature	Minimum Requirement
Quantity	10 Nos.
Type	Managed Gigabit Ethernet switch, L2/L2+ or better
Ports	Minimum 24 Gigabit ports or as approved after site survey
Uplink	Minimum 2 or more SFP/SFP+ uplink ports as required by design
VLAN	802.1Q VLAN, trunk/access modes
Security	Port security, ACL capability and management security
Loop Prevention	STP/RSTP/MSTP
Link Aggregation	LACP preferred
Management	Web/CLI/SNMP
PoE	PoE/PoE+ model wherever CCTV/AP/other powered endpoints require it; non-PoE models may be used where PoE is not required

6. OPTICAL FIBRE INSTALLATION REQUIREMENTS

- All underground OFC shall be installed inside suitable HDPE/protective ducting. Direct burial of fibre without approved mechanical protection shall not be permitted.
- Final route, trench depth and duct specification shall be approved after site survey and shall comply with good engineering practice and local site conditions.
- Separate routes or additional physical protection shall be provided at road crossings and other areas exposed to mechanical damage.
- Minimum bending radius recommended by the cable manufacturer shall be strictly maintained during installation.
- No fibre shall be sharply bent, crushed, stretched beyond manufacturer limits or left exposed to water accumulation.
- Fibre slack shall be maintained at termination points and suitable intermediate locations for future maintenance.
- Fusion splicing shall be performed using calibrated splicing equipment by qualified technicians.
- Each fibre shall be individually identified from origin to destination. Core numbering shall be consistent with the as-built drawings.
- All excavation areas shall be restored to the original condition, including plastering, paving or surface restoration where disturbed.
- Where existing utilities are encountered, the bidder shall coordinate with the School before excavation and shall take adequate precautions to prevent damage.

The Lawrence School

7. CORE AND MANAGED SWITCH INSTALLATION

- The L3 Core Switch shall be installed in the designated main network/server room in a suitable rack with proper cable management, power distribution and ventilation.
- Ten managed switches shall be installed at locations identified during the site survey. Exact locations and port quantities shall be approved by the School.
- All fibre uplinks shall be terminated on LIU/ODF and connected using OEM-compatible SFP/SFP+ modules and suitable fibre patch cords.
- Every switch port, fibre core, patch panel/LIU port and uplink shall be labelled.
- The bidder shall maintain a complete switch-port-to-endpoint mapping.
- All switch configurations shall be backed up and supplied to the School in editable/native format at handover.

8. VLAN, IP ADDRESSING, ROUTING AND SECURITY REQUIREMENTS

Requirement	Tender Requirement
VLAN Design	Four service categories shall be logically separated across seven campuses.
Campus Isolation	Campus/service segmentation shall be implemented so that traffic is not unintentionally bridged between campuses.
VLAN IDs	Final IDs shall be proposed by bidder and approved by School; illustrative 7×4 scheme may be used.
IP Addressing	Private IPv4 addressing plan with separate subnet/gateway for each approved VLAN.
Inter-VLAN Routing	Only through L3 core and only for approved traffic.
ACL	Default-deny between sensitive service VLANs, with documented exceptions.
CCTV	No general Internet access; only approved NVR/VMS/management communication.
Student	Internet access; no direct access to CCTV/Staff Quarters/management networks.
Staff Quarters	Internet access; isolated from School internal networks unless specifically approved.
Official	Authorised institutional access with appropriate controls.
Management	Network device management shall use a restricted management segment/access policy.
Trunks	Only required VLANs shall be allowed on each trunk; unused VLANs shall not be carried.
STP	Appropriate STP/RSTP/MSTP configuration to prevent switching loops.

The Lawrence School

Logging/Monitoring	SNMP/syslog or equivalent monitoring shall be configured where supported and required.

8.1 VLAN Configuration Deliverables

- VLAN ID and VLAN name list.
- Campus-wise IP subnet and default gateway schedule.
- Core switch SVI/interface configuration.
- ACL matrix showing permitted and denied traffic.
- Trunk/access port matrix.
- Switch management IP list.
- Fibre link and SFP mapping.
- Configuration backup of core and managed switches.

9. TESTING, COMMISSIONING AND ACCEPTANCE

The system shall be considered complete only after successful physical, optical, network and security testing.

Test	Acceptance Requirement
OFC Continuity	100% of installed active cores shall pass continuity testing.
OTDR	OTDR traces shall be recorded for each fibre link and submitted.
Optical Loss	Measured loss shall be within the limits approved for the installed fibre/link budget.
Fibre Labelling	Origin, destination and core identification shall match documentation.
Switch Connectivity	All approved uplinks and access ports shall operate at expected negotiated speeds.
VLAN Test	Each VLAN shall reach only the resources permitted by the approved policy.
Isolation Test	Student, CCTV and Staff Quarters networks shall not have unauthorised access to one another.
Internet Test	Official, Student and Staff Quarters Internet access shall function according to approved policy.
CCTV Test	CCTV devices shall communicate with approved NVR/VMS/management systems without general Internet access.
Fail/Recovery Test	Switch reboot/link restoration shall be tested for correct recovery.
Documentation	As-built drawings, configurations and test reports shall be handed over before final acceptance.

The Lawrence School

10. DOCUMENTATION, TRAINING AND HANDOVER

- Detailed as-built network topology diagram covering all seven campuses.
- OFC route map with duct route, handholes/termination points and cable identification.
- Fibre core allocation and splice schedule.
- OTDR and optical loss test reports.
- Rack layout and switch port mapping.
- VLAN and IP addressing schedule.
- ACL and routing policy document.
- Configuration backup of all active network equipment.
- OEM manuals, datasheets, warranty certificates and licenses.
- Training for School IT personnel covering VLAN administration, switch management, basic troubleshooting and configuration backup/restore.
- Final completion and commissioning certificate.

11. ELIGIBILITY CRITERIA

- Bidder shall be a legally registered firm/company/partnership/proprietorship capable of executing structured networking and OFC projects.
- Minimum five years of relevant experience in optical fibre networking, structured cabling, switching and VLAN implementation.
- At least three completed/relevant OFC network projects of comparable nature, preferably in educational, institutional, campus or multi-building environments.
- Valid GST and PAN registration.
- Bidder shall not be blacklisted/debarred by any Government Department, PSU, educational institution or statutory authority.
- Bidder shall have qualified networking/OFC personnel capable of undertaking fusion splicing, OTDR testing, L3 switching and VLAN configuration.
- Manufacturer authorisation/OEM partner certificate for quoted active networking equipment shall be submitted where applicable.
- Bidder shall undertake a mandatory site visit before submission of the financial bid.

12. BID SUBMISSION AND EVALUATION

The tender shall be evaluated in accordance with the School's procurement procedure and applicable financial rules. The School may first evaluate technical compliance and thereafter open the financial bids of technically qualified bidders.

The Lawrence School

Technical evaluation shall consider:

- Compliance with mandatory specifications.
- Quality and OEM credentials of proposed active/passive equipment.
- Relevant experience and completed project credentials.
- Quality of proposed OFC route, protection, termination and testing methodology.
- VLAN/IP design approach and security controls.
- Implementation schedule and availability of qualified technical manpower.
- Warranty and after-sales support.

The School may seek clarification, demonstration, site verification or technical presentation from bidders. Any such clarification shall not permit a bidder to materially alter its quoted scope or price.

13. COMMERCIAL / BOQ FORMAT

The bidder shall quote item-wise rates inclusive of all applicable taxes, freight, insurance, unloading, installation, testing, commissioning, consumables and other charges. Quantities requiring route measurement shall be confirmed during the mandatory site survey and approved by the School.

S.No.	Description	Unit	Qty	Rate incl. GST (₹)	Amount incl. GST (₹)
1.	Molex Outdoor Armored Single-Mode OFC, minimum 24-core or approved equivalent	Mts	1600		
2.	Molex Outdoor Armored Single-Mode OFC, minimum 12-core or approved equivalent	Mts	400		
3.	Molex Outdoor Armored Single-Mode OFC, minimum 6-core or approved equivalent	Mts	600		
4.	Netfox Rack-mounted 24 Port LIU/ODF fully loaded	No.	6		
5.	1” HDPE underground OFC duct with accessories	Mts	2000		
6.	CP Plus CP-UNR-4K5128R8-EI NVR 128 Channel	No.	1		
7.	CP Plus CP-UNC-DA21L3C-Q - 2MP Dome Camera	No.	20		
8.	Netfox Rack-mounted 12 Port LIU/ODF fully loaded	No.	8		
9.	Molex Fibre patch cord / pigtail / adaptor / splice accessories	Lot	150		

The Bhartiya School

10.	D-Link DXS 3130 32S 28 Port 10G SFP++4 Ports 25G Layer-3 Core Switch, enterprise grade	No.	1		
11.	D-Link DGS-1210-28 24 Managed POE Gigabit Network 24 port Switch	No.	10		
12.	D-Link DGS-1024D 24-Port 10/100/1000 Semi- Managed POE Gigabit Network 24 port Switch	No.	6		
13.	Netfox SC to SC Gigabyte **Duplex** optical media convertor - Netfox	Sets	8		
14.	Netfox SC to SC Gigabyte **Single** optical media convertor - Netfox	Sets	12		
15.	Power Manager 6+1	No.	10		
16.	Power Manager 10+1	No.	2		
17.	Netfox 42U Network **Server mount** rack with fully loaded accessories	No.	1		
18.	Netfox 6U Network rack with fully loaded accessories	No.	5		
19.	Netfox 9U Network rack with fully loaded accessories	No.	2		
20.	Molex Cat6 Cable 305mtrs	Box	8		
21.	RJ45 Connectors	Box	10		
22.	1” PVC Pipe with accessories	No.	100		
23.	3/4” PVC Pipe with accessories	No.	100		
24.	1.5” PVC casing with accessories	No.	100		
25.	3” Cable Tray	No.	250		
26.	Other Accessories	Lot	1		
27.	Trenching / excavation in soft soil	Mts	900		
28.	Trenching / excavation in Semi Hard soil	Mts	800		
29.	Trenching / excavation in hard soil/road crossing	Mts	450		
30.	Warning tape / route marker / protection arrangement	Lot	As required		
31.	Fibre handhole/manhole with cover	No.	As required		
32.	Fusion splicing and termination	Core	200		
33.	Earthing / power / rack accessories, if required	Lot	As required		
34.	Laying of Cat6 cable	Mts	3500		
35.	OFC OTDR testing and certification	Lot	1		

The Lawrence School

36.	Network configuration, VLAN, routing and ACL implementation	Lot	1		
37.	Testing, commissioning, documentation and training	Lot	1		
38.	Civil restoration / plastering / paving restoration	Lot	As required		
39.	Any other item required for complete implementation	Lot	1		
				TOTAL	

14. GENERAL TERMS AND CONDITIONS

- The quoted price shall be inclusive of all taxes, duties, freight, transportation, loading/unloading, labour, tools, installation, testing, commissioning and incidental expenses.
- All equipment shall be brand new, genuine OEM products and supplied with original manufacturer warranty.
- Equivalent or superior products may be accepted only if they meet or exceed the stated technical requirements and are approved by the School.
- The successful bidder shall enter into an agreement/work order with the School within the period specified in the Letter of Intent/Work Order.
- The bidder shall complete the work within the approved implementation period. The bidder shall provide a detailed project schedule after award.
- No additional payment shall be made for minor accessories/consumables necessary to complete the system.
- Any damage caused to School property during the work shall be repaired/restored by the contractor at its own cost.
- Work shall be carried out in a manner that does not disrupt academic activities, residential operations or other essential services.
- The bidder shall comply with all applicable safety requirements and shall provide PPE to its personnel.
- Subcontracting of the complete work shall not be permitted without prior written approval of the School.
- The School reserves the right to reject any or all tenders without assigning reasons, subject to applicable procurement rules.
- Conditional or incomplete bids may be rejected.
- All disputes shall first be attempted to be resolved amicably. The courts having jurisdiction over The Lawrence School, Lovedale shall have jurisdiction, subject to the contract.

The Lawrence School

15. WARRANTY, SUPPORT AND MAINTENANCE

- All active and passive equipment supplied under this tender shall carry a minimum comprehensive three-year warranty from successful commissioning, unless a longer OEM warranty is quoted.
- During warranty, defective equipment shall be repaired/replaced by the bidder/OEM without additional cost, subject to warranty terms.
- The bidder shall provide firmware/software/security updates applicable to the supplied equipment where available from the OEM and permitted under the license.
- The bidder shall provide remote and onsite technical support for network faults during the warranty period.
- After warranty, the School may separately procure AMC/CSMC support if required.
- The bidder shall nominate a service contact and escalation matrix.

The Lawrence School

ANNEXURE – I: VENDOR INFORMATION SHEET

Particular	Vendor Response
Name of Vendor	
Registered Office Address	
Contact Number	
Email ID	
Website	
PAN	
GSTIN	
Year of Establishment	
Nature of Business	
Authorised OEM / Partner Details	
Years of OFC/Networking Experience	
Relevant Project 1	
Relevant Project 2	
Relevant Project 3	
Service Contact	
Bank Details	

The Lawrence School

ANNEXURE – II: TECHNICAL COMPLIANCE SHEET

S.No.	Requirement	Complied (Yes/No)	Deviation / Remarks
1	Seven-campus OFC backbone		
2	Underground HDPE/protected OFC laying		
3	Minimum 12-core outdoor armoured SM OFC or approved equivalent		
4	LIU/ODF and fusion splicing		
5	OTDR and optical loss testing		
6	One L3 Core Switch		
7	Ten managed network switches		
8	Four service VLANs		
9	Seven-campus logical segregation		
10	Inter-VLAN routing and ACL controls		
11	CCTV isolation / restricted access		
12	Student and Staff Quarters isolation		
13	Network documentation and configuration backup		
14	Training and handover		
15	Minimum three-year warranty		

ANNEXURE – III: NETWORK DESIGN SUBMISSION

The bidder shall submit the following with the technical bid:

- Proposed high-level network topology diagram.
- Campus-wise OFC route concept.
- Proposed L3 core and managed switch architecture.
- Proposed VLAN ID and IP addressing plan for seven campuses.
- Inter-VLAN routing and ACL policy matrix.
- Proposed switch models, port capacity and SFP/SFP+ modules.
- Proposed OFC cable type, fibre count and ducting method.
- Implementation methodology and estimated completion schedule.
- Testing and commissioning methodology.

The Lawrence School

ANNEXURE – IV: SITE SURVEY AND HANDOVER CHECKLIST

Item	Completed / Verified	Remarks
Site survey of all 7 campuses		
OFC route approved		
Duct route and trench details approved		
LIU/ODF locations approved		
Core switch location approved		
10 managed switch locations approved		
VLAN/IP plan approved		
OFC splicing completed		
OTDR reports submitted		
Switch configuration completed		
VLAN isolation tested		
Internet access tested		
CCTV access/isolation tested		
Documentation handed over		
Training completed		
Completion certificate issued		

END OF TENDER DOCUMENT

Active Directory (AD) Implementation for Four Labs

1. The successful bidder shall design, configure and implement an Active Directory-based authentication and user management solution for four (4) designated laboratories of The Lawrence School, Lovedale.
2. The Active Directory implementation shall be integrated with the network infrastructure and VLAN architecture specified in this tender.
3. The bidder shall configure the Active Directory domain, Organizational Units (OUs), user accounts, computer accounts and appropriate security/group policies for the four laboratories, as finalized with the School's IT Department.
4. The bidder shall configure appropriate Group Policies (GPOs) for the laboratory computers, including user access restrictions, password/security policies, workstation configuration and other controls required by the School.
5. The designated laboratory computers shall be joined to the Active Directory domain and the bidder shall verify domain authentication and correct application of the configured policies.

The Lawrence School

6. The bidder shall configure the required DNS integration and ensure proper name resolution for Active Directory services and the relevant laboratory VLANs.
7. The bidder shall ensure that the required Active Directory traffic is permitted through the network/VLAN security policies while maintaining segregation between the Official Internet, CCTV, Student Internet and Staff Quarters networks.
8. The bidder shall provide complete Active Directory documentation, including domain configuration, OU structure, GPOs, user/computer groups, IP/DNS requirements and relevant network dependencies.
9. The bidder shall provide hands-on training to designated School IT personnel covering basic Active Directory administration, user management, computer management and Group Policy administration.
10. All configuration, testing, commissioning, documentation and training required for the Active Directory implementation shall be included in the quoted price unless specifically identified as an additional item in the Financial Bid.

Additional Technical Requirement – Active Directory

Sl. No.	Description	Unit	Qty.	Remarks
1	Active Directory implementation, domain configuration, OU/GPO configuration, joining of designated laboratory computers, testing, documentation and training for four (4) laboratories	Job	1	Complete turnkey implementation for 4 labs

The Lawrence School