



IISJ/ADMIN/RFQ_IT_140926/042/2026-27

Date: 14/09/2026

Letter of Enquiry

Network Infra Upgrade for Smartboard Commissioning [KG to Class 12]

You are invited to submit your sealed quotation for the supply, installation, testing, and commissioning of **Network Infra Upgrade for Smart board Commissioning (KG to Class 12)** in all the blocks of our school as per the details below:

Scope of Work

- Replacement of current existing network switches, cabinets, patch panel, fiber termination & cable management works.
- Supply and installation of Cisco Catalyst managed switches and dedicated CCTV PoE switches.
- Deployment of Single Mode Fiber (SMF) backbone connectivity across the school blocks.
- Supply and Installation of ubiquity nano stations for the network throughput upgrade in SJB , KG & JPS blocks
- A-Grade Cat6 structured cabling across all blocks and classroom locations as required.
- VLAN, Layer 3, QoS, LACP and network-security configuration.
- Fiber splicing, testing, and end-to-end commissioning.
- Complete network documentation, configuration backup and handover.





Proposed Network Architecture

- Main Distribution/Aggregation: 2 × Cisco Catalyst C1300-24XS
- Access: 36× Cisco Catalyst C1300-24T-4X, one for each network cabinet.
- CCTV: 30 × Ruijie/Hikvision 24-Port Managed PoE Switches, dedicated to CCTV.
- Internet/NAT: Existing Ruijie Router.
- Backbone: Single Mode Fiber across all blocks.
- Core optical uplink: 2 × 10G SFP+ module- as required
- Access optical uplinks: 2G+ SFP+ modules/compatible optics as required by the final approved topology and site visit.

Building-wise Switch Distribution

Section/Building	Cisco Access switches	24-Port PoE
JPS	7	7
Main Building	10	8
Extension 1	3	2
Extension 2	2	2
SJB	8	6
KG	6	5
TOTAL	36	30





Requirements

Item	Network Upgrade Proposal	Description
Cisco access switches	36 × C1300-24T-4X	Across all the sections [building-wise allocation]
POE switches for CCTV	30 × 24-Port PoE	Across all the sections [building-wise allocation]
Distribution switch	2 × C1300-24XS	Main Campus 2× 24-Port SFP Switch
Core optical module	2 × 10G SFP+ as required	2 × 10G SFP+ vendor to confirm compatibility
Access optics	2G+ SFP+ as required	Quote compatible 2G+ SFP+ optics as required by final uplink design; vendor shall state exact model/speed. [80 total tentative]
Fiber cable	SMF across all blocks, quantity by site survey	1,500 m Main + 300 m SJB + 150 m JPS = 1,950 m provisional. SMF quantity as required after site survey. 1,950 m may be used as provisional BOQ basis, subject to measurement.
Cat6 cabling	A-Grade Cat6 across all blocks, as required	A-Grade Cat6 across all blocks; final quantity based on site survey and approved point schedule.
Classroom outlets	235 classroom locations	235 outlet sets number of data/CCTV points per room to be finalized by site survey.
Fiber splicing	As required	As required based on final fiber routes and termination schedule.
Cabinets	9U/12U/18U as required [FAN + PDU]	36 cabinets total; final cabinet sizes/locations to be verified during site survey.
Faceplates & utility boxes	235 locations / As Required	For Smartboard classroom locations
Patch Panels	24/48-Port Unloaded Patch Panels	As required
UBIQUITY NANOSTATIONS /P2P [FOR SJB, KG & JPS]	1. Ubiquiti UISP Wave-LR – 2 Nos. 2 Gbps 5 GHz backup radio 2. Ubiquiti UISP Wave Nano – 2 Nos. 2 Gbps 5 GHz backup radio 3. Outdoor CAT6 U/UTP PE Cable – 2 Drums × 305 m. Ubiquiti/Excel Solid 4. Crane/Man-Lift Service – as required	





Technical Specifications

- Cisco Catalyst access switches: managed distribution/aggregation switch with SFP/SFP+ interfaces, VLAN, QoS, ACL, LACP, RSTP/MSTP, Layer 3 Lite/static routing, SNMP and CLI/Web management.
- 2 Cisco Catalyst C1300-24T-4X: 24 × Gigabit Ethernet access ports and 4 × high-speed uplink ports, with VLAN, QoS, ACL, LACP, IGMP Snooping and management features.
- 24-port managed PoE switch, suitable for the installed IP cameras, with adequate PoE budget and uplink capability.
- Dedicated VLANs shall be configured for Smart Boards, staff, students, servers, CCTV cameras/NVRs, Wi-Fi and network management as applicable.
- QoS and multicast/IGMP controls shall be configured where required for Smart Board multimedia traffic.
- CCTV traffic shall be logically isolated from the academic and administrative network.
- Existing Cisco Core Switch shall perform required inter-VLAN routing where technically suitable; existing Ruijie Router shall continue NAT/Internet gateway functions.
- All fiber and copper links shall be labelled at both ends and documented.

Testing, Commissioning & Handover

- Submission of test reports, network diagrams, rack layouts, port mapping, IP/VLAN schedule and configuration backups.
- IT Administrator knowledge transfer and formal handover.

Vendor requirements

Mandatory Site Visit: It is mandatory for all participating vendors to conduct a physical site visit prior to submitting their quotation. The vendor shall personally inspect and verify all building cabinets, existing network infrastructure, existing nano stations, cable routes and required cable lengths, termination points, and all network accessories/materials required for the proposed installation. The vendor shall be fully responsible for ensuring that the submitted quotation and BOQ requirements are based on the actual site conditions, and no subsequent claim for additional quantities or costs arising from failure to conduct the site inspection will be entertained.

The vendor must submit official technical datasheets, a detailed 1-month implementation schedule, a point-by-point compliance matrix, and documentation detailing the 5-year warranty and AMC service commitments. Additionally, the submission must provide verified proof of the vendor's network integration experience in configuring enterprise-grade campus infrastructure and wireless environments.

Any proposed equivalent model shall include a technical compliance sheet and must be approved by IT administrator before supply.





Vendor Requirements

The following documents/details should be submitted along with the quotation:

- Company Profile
- Commercial Registration (CR)
- VAT Certificate
- ZATCA Certificate
- GOSI Certificate
- Warranty Details
- Delivery / Completion Time
- Prior experience in the relevant field (No of Years)

Payment Terms: 30% advance payment upon confirmation of the order, and the remaining 70% shall be paid upon successful completion of the installation and commissioning of the network.

Notes:

1. Sealed Quotation should reach to the Principal office during the office hours (Sunday to Thursday – from 07:30 am to 02:30 pm, Saturday – From 08:30 am to 11:30 am) on or before 27th September 2026.
2. Quotation should be addressed in the name of “Network Infra Upgrade for Smart board Commissioning (KG to Class 12)”.
5. For more details, please contact, Tel – 013 3624130 Ext – 226/100/242, Mob – 0554334314

Thanks & Regards

Rel
14/9/26

Admin Officer(I)
IIS Jubail, KSA

