



وَنَارَة النَقْل
MINISTRY OF TRANSPORT

Procurement, Installation, and Re-commissioning of Cisco Network Switches and 10G Fiber Optic Infrastructure

JULY 2026



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1. Introduction and Project Overview

1.1. Project Objective

The Ministry of Transport (MOT) is issuing this tender to comprehensively modernize and upgrade its Local Area Network (LAN) infrastructure. The primary objective of this project is to replace the legacy access switches with state-of-the-art Cisco network switches to enhance network performance and security. Additionally, the scope encompasses a complete upgrade of the passive infrastructure, specifically the replacement, termination, and rigorous certification of the fiber optic uplinks to support 10Gbps data transmission speeds.

1.2. Vendor Qualifications and Requirements

Bidders must be officially certified (**Cisco Preferred Partner – Networking**) and possess documented technical expertise in successfully implementing network upgrade and migration projects of a similar scope, scale, and complexity.

The submitted proposal must detail a comprehensive End-to-End Solution. This includes the supply, installation, configuration, testing, and seamless integration of all active and passive components within the MOT's existing network environment.

Furthermore, the vendor must commit to applying manufacturer (Cisco) and global IT best practices. The entire migration process must be meticulously planned and executed to ensure zero or minimal downtime, with any necessary service interruptions strictly scheduled and performed outside of the Ministry's regular official working hours to ensure business continuity.

The bidder must provide certified network engineers (e.g., minimum valid Cisco CCNP certification) to lead the technical implementation and configuration tasks.

2. Scope of Work

The scope of work for the successful bidder encompasses, but is not limited to, the following key deliverables and responsibilities:

1. **Hardware Supply & Installation:** Supply, physical install, and power on all required hardware, software, and licenses as detailed in the Technical Specifications section, deploying them securely at the Ministry of Transport (MOT) Headquarters.

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2. Migration & Service Continuity: Execute a seamless migration of all connections, user configurations, and network policies from legacy devices to the newly supplied Cisco equipment. The bidder must guarantee that all MOT digital services and network operations are successfully transitioned and remain fully operational with zero or minimal, pre-approved downtime.
3. Configuration & Best Practices: Fully configure and optimize all supplied equipment. The bidder must ensure that all system configurations strictly adhere to official Cisco deployment guidelines, global security standards, and IT industry best practices.
4. Project Management & Planning: Submit a comprehensive Project Implementation Plan within a specified timeframe after the awarding. This plan must outline project phases, timelines, resource allocation, and a clear migration strategy (Cut-over plan) subject to MOT's approval prior to execution.
5. Comprehensive Documentation: Deliver exhaustive project documentation upon completion. This must include but is not limited to: Low-Level Design (LLD), As-Built drawings, Cable labeling details, and User Acceptance Testing (UAT) sign-off sheets.
6. Comprehensive Passive Infrastructure and Equipment Re-commissioning Works:

The bidder is responsible for delivering a complete, turnkey solution encompassing the upgrade of the fiber optic backbone and the relocation of existing network switches. This comprehensive work package includes:

- 10G Fiber Optic Uplinks (Passive Works): Supplying, pulling, testing, and terminating new fiber optic cables to replace the existing connections between the Nine (9) network cabinets and the main server room on the second floor. The new fiber links must strictly support a minimum of 10Gbps transmission speeds and be directly connected and fully integrated into the Core Switches.
- Switch Relocation & Re-installation: Dismantling, relocating, and—where necessary—re-installing decommissioned switches into the new network cabinets, as directed by the Ministry's team.
- Physical Mounting & Cable Management: Executing all associated passive works for the relocated equipment. This includes secure physical racking of the devices and the professional routing, organizing, and patching of all necessary copper/fiber patching cords within the cabinets.
- System Configuration & Service Continuity: Re-configuring and re-installed switches with the appropriate parameters to guarantee seamless, uninterrupted network services for all connected end-users.



7. **Mandatory Site Survey and Compatibility Guarantee:**

The bidder is required to conduct a comprehensive technical site survey prior to submitting their proposal to discover and document all relevant components of the existing network infrastructure (e.g., core switches, firewalls, cable pathways). The bidder is solely responsible for guaranteeing that all proposed hardware, optics, and cables are fully compatible with MOT's existing infrastructure. Any additional hardware, transceivers, licenses, or civil works required post-award due to miscalculation or incompatibility shall be provided by the bidder at no additional cost to the Ministry. (Note: The financial proposal must encompass all costs to execute tasks mentioned in clauses 6 and 7).

8. **Warranty and Support Services:**

The bidder must provide a valid, back-to-back three-year (3-year) Cisco Smart Net Total Care (SNTC) 8x5xNBD (Next Business Day) support contract for all Cisco active equipment supplied. This warranty must explicitly cover hardware replacement within the next business day, as well as access to Cisco TAC and software/firmware updates.

3. Special Conditions

The following special conditions are mandatory. Failure to explicitly comply with any of these conditions may result in the technical disqualification of the submitted proposal:

1. **Single Lot Provision:**

This tender is considered a single, indivisible turnkey lot. Bidders must quote for all requested items and services. Partial bids or fragmented offers will be strictly rejected.

2. **Manufacturer Partnership:**

The bidder must be an officially certified **(Cisco Preferred Partner – Networking)**. A valid and verifiable manufacturer partnership certificate must be attached to the technical proposal.

3. **Technical Team Qualifications:**

The bidder must assign highly qualified and certified network engineers (e.g., minimum valid Cisco CCNP Enterprise) to execute the installation, configuration, and migration tasks. Detailed CVs along with copies of valid technical certifications must be provided with the bid.

4. **Warranty and Hardware Replacement:**

The bidder must provide a comprehensive three-year (3-year) back-to-back manufacturer warranty (Cisco Smart Net Total Care 8x5xNBD) for all active equipment. This must explicitly include hardware replacement within the Next Business Day (NBD).

5. **Preventive Maintenance & Health Checks:**



The winning bidder must conduct scheduled quarterly preventive maintenance visits and comprehensive system health checks for the duration of the 3-year warranty period. A formal, detailed technical report must be submitted to the Ministry's IT Directorate after each visit, outlining system performance, applied firmware updates, and any identified risks.

6. 24/7 Technical Support:

In addition to the manufacturer warranty, the bidder must provide 24/7 direct local technical support for critical severity incidents, encompassing both remote assistance and on-site intervention as required by the situation.

7. Knowledge Transfer:

The bidder must deliver structured, hands-on knowledge transfer sessions for the Ministry's technical team. These sessions must cover the daily operation, configuration management, monitoring, and basic troubleshooting of the newly deployed network infrastructure.

8. Service Level Agreement (SLA):

A draft Service Level Agreement (SLA) must be included in the technical proposal. This SLA must clearly define measurable performance indicators, response times, resolution times, and clear escalation matrices for the proposed services. The final SLA will be refined, agreed upon, and formally signed upon contract award.

9. Comprehensive Documentation:

Prior to the final project handover and sign-off, the winning bidder must deliver fully detailed and approved project documentation. This strictly includes the High-Level Design (HLD), Low-Level Design (LLD), As-Built drawings, and configuration backups for the new setup.



4. Technical Requirements

#	Item Name	Description	QTY
A. Passive (Fiber Uplinks) - Site Survey required			
R&M			
1	R852313	R&M Fiber Cable OM4 12 Cores LSZH indoor Rodent protected	1300
2	R879193	R&M Fiber Patch Panel 6 Port LC OM4	9
3	R879195	R&M Fiber Patch Panel 24 Port LC OM4	3
4	R826516	R&M Fiber Patch Cord OM4 2 port Per Cabinet	36
B. Cisco Access Switches			
C9200L-24P-4X-E			
1.0	C9200L-24P-4X-E	Catalyst 9200L 24-port PoE+, 4 x 10G, Network Essentials	4
1.0.1	CON-SNT-C920024X	SNTC-8X5XNBD Catalyst 9200L 24-port PoE+, 4 x 10G, Ne	4
1.1	C9200L-DNA-E-24	C9200L Cisco DNA Essentials, 24-port Term license	4
1.1.1	C9200L-DNA-E-24-3Y	C9200L Cisco DNA Essentials, 24-port, 3 Year Term license	4
1.2	C9200L-NW-E-24	C9200L Network Essentials, 24-port license	4
1.3	CAB-TA-UK	United Kingdom AC Type A Power Cable	4
1.4	PWR-C5-BLANK	Config 5 Power Supply Blank	4
1.5	C9K-ACC-RBFT	RUBBER FEET FOR TABLE TOP SETUP 9200 and 93xx	4
1.6	C9K-ACC-SCR-4	12-24 and 10-32 SCREWS FOR RACK INSTALLATION, QTY 4	4
1.7	CAB-GUIDE-1RU	1RU CABLE MANAGEMENT GUIDES 9200 and 9300	4
1.8	C9200L-STACK-KIT	Cisco Catalyst 9200L Stack Module	4
1.9	C9200-STACK	Catalyst 9200 Stack Module	8
1.11	STACK-T4-1M	1M Type 4 Stacking Cable	4
1.10	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	4
C9200L-48P-4X-E			
2.0	C9200L-48P-4X-E	Catalyst 9200L 48-port PoE+, 4 x 10G, Network Essentials	6
2.0.1	CON-SNT-C9200L4X	SNTC-8X5XNBD Catalyst 9200L 48-port PoE+, 4 x 10G, Ne	6
2.1	C9200L-DNA-E-48	C9200L Cisco DNA Essentials, 48-port Term license	6
2.1.1	C9200L-DNA-E-48-3Y	C9200L Cisco DNA Essentials, 48-port, 3 Year Term license	6
2.2	C9200L-NW-E-48	C9200L Network Essentials, 48-port license	6
2.3	CAB-TA-UK	United Kingdom AC Type A Power Cable	6
2.4	PWR-C5-BLANK	Config 5 Power Supply Blank	6
2.5	C9K-ACC-RBFT	RUBBER FEET FOR TABLE TOP SETUP 9200 and 93xx	6
2.6	C9K-ACC-SCR-4	12-24 and 10-32 SCREWS FOR RACK INSTALLATION, QTY 4	6
2.7	CAB-GUIDE-1RU	1RU CABLE MANAGEMENT GUIDES 9200 and 9300	6
2.8	C9200L-STACK-KIT	Cisco Catalyst 9200L Stack Module	6
2.9	C9200-STACK	Catalyst 9200 Stack Module	12
2.10	STACK-T4-1M	1M Type 4 Stacking Cable	6
2.11	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	6
SFP-10G-SR-S=			
3.0	SFP-10G-SR-S=	10GBASE-SR SFP Module, Enterprise-Class	36

