

## The New Development Bank

### Request for Proposal

(This is not a Purchase Order)

#### 1. Introduction

The New Development Bank (NDB) is issuing a Request for Proposal (RFP) to invite qualified suppliers to provide proposals to NDB's EPS# S-IT-2025-01901 Upgrade of the network infrastructure at Hong Kong connectivity hub project. Please refer to the following information and attachment for detailed requirements.

Those interested and qualified companies please register into NDB's e-procurement system to be **NDB's registered suppliers** and participate in the bidding process (**please be noted the contact information provided in registration especially email address must be correct as all communications regarding the bid including RFP distribution and award notice will be sent through it**). NDB will choose the most suitable one(s) from the shortlisted suppliers. NDB at its sole discretion reserves the right to reject all proposals in accordance with its internal policy and guidelines.

#### 2. RFP Schedule

Please be noted the following activities could take place in the RFP process. NDB will inform the specific arrangements in advance and the suppliers are requested to respond timely.

Activity	Date
Distribution of RFP	6 March, 2025
Deadline for Questions	17 March, 2025
Proposal Response Due	31 March, 2025
Presentation and Demonstration	TBD
Signing Contract	TBD
Project Kick Off	TBD

*\*The RFP Schedule is for reference only and NDB has its sole discretion to adjust as per the project's needs.*

#### 3. Instruction to bidders

##### 3.1 Contact Information

Please use the following contact information for all correspondence with NDB concerning this RFP.

Name: Junfeng (Jimmy), Wang

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Email: wang.junfeng@ndb.int

### **3.2 Submission of Proposals (Introduction to use of NDB's e-procurement system)**

Proposals shall be prepared in English. Electronic version is obligatory and shall be sent online in NDB's e-procurement system.

For submission of proposal, the qualified suppliers should register to NDB's e-procurement system to be **NDB registered suppliers** (subject to NDB's internal approval) in advance. All registration information shall be in English except uploads of scanned or copied documents originally produced in other languages. Then registered suppliers need to **ENROLL** in the procurement notice (for open competitive bidding) or **ACCEPT** the invitation (for limited competitive bidding) before submitting proposal online according to the timeline: <https://www.ndb.int/procurement-opportunities/corporate-procurement/>

The mentioning of deadline, due time, closing date, etc. herein means Beijing time; and NDB's business time is from 9:00AM to 5:15PM in working days.

### **3.3 Questions**

Please submit questions in writing by e-mail. Suppliers should refer to the specific RFP paragraph number and page and should quote the questioned passage. NDB will be prompt in responding to questions. All questions will be responded to as a group and sent to all suppliers. NDB will not provide feedback to questions raised beyond deadline.

### **3.4 Ownership of Materials**

All materials submitted in response to this RFP become the property of NDB. Proposals and supporting materials will not be returned to suppliers.

### **3.5 Proposal Costs**

NDB is not responsible for any costs incurred by the supplier in the preparation of the proposal or the site visit.

### **3.6 Proposal Format (if applicable)**

NDB recommends that the proposal should contain **three** parts as follows. **The supplier may choose another proposal format as long as it suits the purpose.**

Volume 1 – Information on the suppliers. The supplier is required to provide the basic information in the attached table (attachment 2). Please fill out the table as complete as possible, where it applies. More information is more helpful for evaluating.

Volume 2 – Main Proposal

Section 1	Executive Summary
Section 2	Functional Section
Section 3	Technical Section
Section 4	Project Management Section
Section 5	Support Section

Volume 3 – Price Proposal – Should be separate but integral part of the proposal. The currency is **USD**; if quoting in other currencies, the exchange rate should be clearly defined. **The price shall be inclusive of applicable taxes (if not, please specify)**; and other charges shall also be clearly defined.

### **3.7 Validity Period**

The proposal including pricing quotation shall be valid at least for 120 days.

### **3.8 RFP Amendments**

New Development Bank reserves the right to amend this RFP any time prior to the closing date. Amendments will be issued only to suppliers who are going to complete a proposal.

### **3.9 Sub-contractor**

NDB expects to negotiate and sign contract with one winning supplier. NDB will accept only complete solutions from a primary supplier and will not accept any incomplete proposals that are only cover part of the RFP. The prime supplier will be responsible for the management of all subcontractors. NDB will not accept any invoices from subcontractors or become part of any negotiations between a prime supplier and a subcontractor. If there is any sub-contractor involved or engaged by the supplier, it shall be clearly stated in the proposal.

### **3.10 Award Notification**

NDB could negotiate with all shortlisted suppliers before deciding the winning supplier. And NDB reserves the right to negotiate further with the winning supplier before and in the contracting process. The award notification is sent to the winner online in the e-procurement system. NDB is not obliged to notify the bid outcome to unsuccessful suppliers.

## **4. Evaluation Criteria**

The proposals will be reviewed and evaluated by NDB's team in accordance with the related policy and guidelines, especially the six principles (Economy, Efficiency, Competition, Transparency, Value for Money, Fit for Purpose) contained in NDB's corporate procurement policy. NDB is interested in obtaining a complete solution to the requirements contained in this RFP. Proposals that meet the proposal instructions and requirements will be given a thorough and objective review. Proposals that are late, or do not comply with proposal instructions, or take exceptions to mandatory requirements will be eliminated without further consideration. The following are the key factors that would be taken into consideration for evaluating the proposals.

### **i. Technical Approach and Methodology or Software Solution**

Primary consideration will be given to meet the mandatory requirements as listed in this RFP.

The following are the main factors in the evaluation.

1. Meeting the requirements as stated in this RFP;
2. Understanding of the work to be performed;
3. Technical approach and methodology to accomplish the work;
4. Completeness and competence in addressing the scope of work.

### **ii. Project Management**

NDB also believes that effective project management is essential for a successful implementation. Suppliers will be evaluated on the completeness and responsiveness of their project management plans and the project team assigned.

As part of the project management plan, suppliers must demonstrate adequate experiences in developing and implementing the requested project. NDB's confidence in the suppliers' ability to meet deadlines and successfully manage similar projects will be a primary consideration.

Special consideration is given to suppliers who propose a detailed project plan with sufficient breakdown of tasks and steps to demonstrate a complete understanding of the project.

### **iii. Pricing**

NDB will consider pricing as part of the evaluation criteria. **Lowest price is not essential to win**; however, large pricing differentials between suppliers will be carefully examined. Price will be used as a final indicator for determining the supplier finalists when all other criteria have been normalized.

### **iv. Presentation and Demonstration**

The performances and results of Presentation and Demonstration will be evaluation factors.

### **v. Support and Maintenance**

NDB believes the ability to perform timely support is also an important factor for the success of this project. Therefore, suppliers should provide adequate information to demonstrate their capabilities to fulfill this task.

## **5. Contract**

The participants shall review the service agreement template provided by NDB in advance. The use of NDB's version of service agreement is preferable. NDB Template for Service Agreement and NDB General Terms and Conditions for Procurement Contracts can be found on the NDB's official website:

<https://www.ndb.int/procurement-opportunities/corporate-procurement/>

Please especially be aware that being an international institution, NDB enjoys privileges and immunities granted in the Articles of Agreement (Agreement on the New Development Bank) (<https://www.ndb.int/>) and disputes will be held by a reputable international arbitration center. Preferable forum is Shanghai International Arbitration Center ("SHIAC") or any alternative forum in a neutral jurisdiction.

**Attachment 1:**

**Service Scope (Statement on Work)**

**NDB Information Technology**

**Upgrade of the network infrastructure  
at Hong Kong connectivity hub**

**Requirements Specification**

## Executive Summary

### Stakeholder Needs (Mission Vision)

Enhanced uptime of the network infrastructure that supports the applications provided by NDB to its end users, being external partners, customers or its staff.

Enhanced performance of the network infrastructure that supports the applications provided by NDB to its end users, being external partners, customers or its staff.

### Project Description

NDB's network infrastructure relies upon its Connectivity Hubs to establish connections to:

- Cloud providers
- Service providers
- Internet
- NDB backbone
- NDB Regional Offices

This project comprises an upgrade of the current network infrastructure deployed at NDB connectivity hub located in Hong Kong, therefore enhancing the resiliency and improving the performance of the network infrastructure. In order to achieve these goals, this connectivity hub should be provided by a different telecom provider than the others connectivity hubs of NDB.

### Scope

- Two routers, two switches and two servers
- Layer 2 private line from NDB HQ to HK Connectivity Hub with bandwidth of 200 Mbps, route protection and possibility of increasing to 1 Gbps with only logical changes
- Connectivity to cloud providers: Global Azure HK 2\*100 Mbps, AliCloud HK 2\*100Mbps
- Connectivity to the Internet: 1\*200 Mbps Internet line with BGP full-routing
- Connectivity to SWIFT: one dedicated private line to SWIFTNET of 4 Mbps, one shared line to SWIFTNET connected through the BGP Internet line
- 1 cabinet rack for the deployment of the network devices and servers
- Smart Hands services at the Data Center in HK

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## Functions and Features

### FR1.

**Details**

200 Mbps leased line from NDB HQs to Hong Kong, last mile in mainland China provided by either China Unicom or China Telecom. End-to-end protection, with route A and route B, providing a restoration time in case of failure of the active path in less than 5 ms. This leased line must have a complete independent path from the current leased line from NDB HQs to Singapore. This leased line should have a totally independent path from FR2, FR3 and FR4. This leased line could be upgraded to 1 Gbps with only logical configurations.

- ✓ Minimum availability of the line: 99,5%
- ✓ Average latency of the line (RTT): < 35ms
- ✓ Maximum packet loss of the line: 0.2%
- ✓ Maximum repair time for the line: 4 hours
- ✓ Monthly SLA reports for Availability, Bandwidth, Packet Loss
- ✓ Root Cause Analysis report in case of incidents

### FR2.

**Details**

Dual ExpressRoute 100 Mbps connectivity to Global Azure Hong Kong (East Asia) from NDB's connectivity hub in Hong Kong to NDB's Virtual WAN hub in Global Azure Hong Kong (East Asia). Possibility of increasing the bandwidth up to 1 Gbps with only logical configurations. This connection should have a totally independent path from FR1 and FR4.

- ✓ Minimum availability of the line: 99,9%
- ✓ Average latency of the line (RTT): < 10ms
- ✓ Maximum packet loss of the line: 0.02%
- ✓ Maximum repair time for the line: 4 hours
- ✓ Monthly SLA reports for Availability, Bandwidth, Packet Loss
- ✓ Root Cause Analysis report in case of incidents

### FR3.

**Details**

Dual Express Connect 100Mbps connectivity to AliCloud Hong Kong from NDB's connectivity hub in Hong Kong to NDB's VBR in AliCloud Hong Kong. Possibility of increasing the bandwidth up to 1 Gbps with only logical configurations. This connection should have a totally independent path from FR1 and FR4.



- ✓ Minimum availability of the line: 99,9%
- ✓ Average latency of the line (RTT): < 10ms
- ✓ Maximum packet loss of the line: 0.02%
- ✓ Maximum repair time for the line: 4 hours
- ✓ Monthly SLA reports for Availability, Bandwidth, Packet Loss
- ✓ Root Cause Analysis report in case of incidents

#### FR4.

##### Details

Dedicated 200 Mbps Global Internet connection from NDB's connectivity hub in Hong Kong with BGP full-routing support. Possibility of increasing the bandwidth up to 1 Gbps with only logical configurations. This line should have a totally independent path from FR1, FR2 and FR3. Availability of peering connections to the main Internet providers in Hong Kong.

- ✓ Minimum availability of the line: 99,9%
- ✓ Average latency of the line (RTT): N/A
- ✓ Maximum packet loss of the line: 0.2%
- ✓ Maximum repair time for the line: 4 hours
- ✓ Monthly SLA reports for Availability, Bandwidth, Packet Loss
- ✓ Root Cause Analysis report in case of incidents

#### FR5.

##### Details

Dedicated NDB's connectivity hub in the provider's POP in Hong Kong.

Minimum availability of the data center – 99,999%

1 cabinet rack (45U)

5 kva power availability

Primary and Redundant power circuits available

Hardware requirements for the devices to be deployed on this rack: please check the **Attachment 3** with the specifications of the devices.

1000BASE-T SFP transceiver modules with Category 6 copper wire modules should be used. Other types of SFP modules can be evaluated by NDB upon clarification.

FR6.

**Details**

Smart Hands service in NDB's connectivity hub in Hong Kong.

24x7 support

On-site technical assistance

Assembling, physical installation of network devices or physical servers

Remove and install interface cards

Hard and soft reboot of network devices and servers

Test carrier circuits

Maintenance, assembling and installing of the cabling infrastructure

Cabling certification

Physical intervention on network devices or physical servers, such as upgrading memory, installing a new hard disk, installing a new transceiver, etc

Support RMA procedures

Inventory of the equipment, with picture and serial numbers

Maintenance, configuration, operations and support of the Cisco routers and switches

## Non-Functional Requirements

### NF1.

**Details**

The resolution time for incidents with different severities should be:

- Support Severity 1: Resolution time – 4 hours
- Support Severity 2: Resolution time – 8 hours
- Support Severity 3: Resolution time – 20 hours
- Support Severity 4: Resolution time – 40 hours

Where:

- Severity 1: entire system(s) or part of the system(s) is not available
- Severity 2: entire system(s) or part of the system(s) delivers a degraded response
- Severity 3: some functions of the system(s) are malfunctioning and some actions cannot be completed however some other parts still work as expected
- Severity 4: request for a clarification of one aspect of the system

The definition of system here comprises:

- 200 Mbps layer 2 private line between NDB HQ and HK connectivity hub
- Connectivity to Global Azure HK 2\*100 Mbps
- Connectivity to AliCloud HK 2\*100Mbps
- Internet line with BGP full-routing at HK with bandwidth of 200 Mbps
- 4 Mbps private line to SWIFTNET
- 1 line to SWIFTNET connected through the BGP Internet line
- 1 cabinet rack for the network devices and servers

### NF2.

**Details**

A 24x7 NOC should be available for the reporting of any incident related to:

- 200 Mbps layer 2 private line between NDB HQ and HK connectivity hub
- Connectivity to Global Azure HK 2\*100 Mbps
- Connectivity to AliCloud HK 2\*100Mbps
- Internet line with BGP full-routing at HK with bandwidth of 200 Mbps
- 4 Mbps private line to SWIFTNET
- 1 line to SWIFTNET connected through the BGP Internet line
- 1 cabinet rack for the network devices and servers

The NOC should provide all the services in at least the English language, written and spoken

NF3.

**Details**

The price shall be quoted in USD for 2 years with a detailed breakdown of the components

# Glossary

<b>Term</b>	<b>Definitions</b>
BGP	Border Gateway Protocol
HK	Hong Kong
HQs	Headquarters
IT	Information Technology
NDB	New Development Bank
POP	Point of Presence
RMA	Return Merchandise Authorization
RTT	Round Trip Time
SFP	Small Form-Factor Pluggable
VBR	Virtual Border Router
WAN	Wide Area Network

**Attachment 2:**

<b>Information Category</b>	<b>Description</b>	<b>Supplier's inputs</b>
General Information	Legal Entity Name	
	Legal Address	
	Website	
	Government Registered Number	
	Date of Registration	
	Tax ID	
	Name(s) of Authorized Signatory	
	Contact Information (name, title, mail address and telephone number)	
	Amount of Employee	
	Three reference customers for Similar case(minimum)	
Financial Information	Registration capital	
	Revenue of last 3 years	
Other Information	Information Security Credentials if any	
	Data residency location, for providing service required in the RFP	
	IDD/ AML Sanctions, Yes or No. If yes, please specify.	
	Others deemed necessary	

**Attachment 3:****Device List**

<b>Cisco C8300-2N2S-6T</b>			
<b>Line Number</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1.00	<b>C8300-2N2S-6T</b>	Cisco Catalyst C8300-2N2S-6T Router	2
1.01	CON-SNTP-C8302S6T	SNTPC-24X7X4 Cisco Catalyst C8300	2
1.10	MEM-C8300-32GB	Cisco Catalyst 8300 Edge 32GB memory	2
1.20	M2USB-16G	Cisco Catalyst 8000 Edge M.2 USB 16GB	2
1.30	C-RFID-2R	Cisco Catalyst 8000 Edge RFID - 2RU	2
1.40	C8000-HSEC	U.S. Export Restriction Compliance license for C8000 series	2
1.50	C8300-RM-19-2R	Cisco Catalyst 8300 Rack mount kit - 19" 2R	2
1.60	C8300-SM-BLANK	Cisco Catalyst 8300 Edge SM Blank	4
1.70	C8300-PIM-BLANK	Cisco Catalyst 8300 Edge PIM Blank	2
1.80	C8300-FAN-2R	Cisco Catalyst 8300 Edge Fan Tray, 2RU	2
1.90	NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	2
1.10	NAL-FDO-C8K-2N6T	NAL Certification labels	2
1.11	C-POE-COVER	Cover for empty POE slot on Cisco Catalyst Edge 8300	4
1.12	TE-R-SW	TE agent for IOSXE on Enterprise Routing	2
1.13	IOSXE-AUTO-MODE	IOS XE Autonomous boot up mode for Unified image	2
1.14	PWR-CC1-650WAC	Cisco C8300 2RU AC Power supply	4
1.15	CAB-ACC	Power Cord	4
1.16	C-NIM-4X	4-port Layer 2/3 GE Switch Network Interface Module	2
1.17	C-NIM-2T	Cisco Catalyst NIM Module 2-port 1GE SFP with MACSec	2
1.18	SC8KBEUK9-1711	UNIVERSAL	2
1.19	DNA-P-T2-A-3Y	Cisco DNA Advantage On-Prem Lic 3Y - upto 1G (Aggr, 2G)	2
1.20	SVS-PDNA-ADV	Embedded Support for SW - Tiered DNA Advantage On-Prem	2
1.21	DSTACK-T2-A	Cisco DNA Advantage Stack - upto 1G (Aggr, 2G)	2
1.22	NWSTACK-T2-A	Cisco Network Advantage Stack - upto 1G (Aggr, 2G)	2
1.23	TE-EMBED-WANI	Cisco ThousandEyes WAN Insights Embedded	2
1.24	SDWAN-UMB-ADV	Cisco Umbrella for DNA Advantage	2
1.25	DNAC-ONPREM-PF	Cisco DNA Center On Prem Deployment Option for WAN	2
1.26	C83-2N2S-6T-PF	C8300-2N2S-6T Platform Selection for DNA Subscription	2

1.27	IOSXE-AUTO-MODE-PF	IOS XE Autonomous boot up mode for Unified image	2
1.28	SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class	4
1.29	GLC-SX-MMD	1000BASE-SX, 850-nm MMF	4

<b>Cisco Catalyst 9300-48T-4X</b>		
<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
<b>C9300-48T-4X-A</b>	Catalyst 9300 48-port 1G copper with fixe 4x10G SFP+ uplinks, data only Network Advantage	2
CON-3SNTP-C93004TA	3Y SNTC 24X7X4 Catalyst 9300 48-port data only. Network	2
PWR-C1-350WAC=	350WAC power supply spare	2
SC9300UK9-173	UNIVERSAL	2
PWR-C1-350WAC-P/2	350W AC 80+ platinum Config 1 Secondary Power Supply	2
CAB-TA-UK=	AC power cord for Cisco Catalyst (United Kingdom)	4

<b>DellEMC R550 * 2 (two servers are required)</b>		
<b>Description of Each Server Specification</b>		<b>Qty</b>
CPU	Intel(R) Xeon(R) Silver 4309Y 2.8G, 8C/16T, 10.4GT/s	2
Memory	32GB RDIMM, 3200MT/s	4
HDD	2.4TB 10K RPM SAS 12Gbps 512e 2.5	6
Network card	Broadcom 5719 4 ports 1GbE BASE-T , PCIe	1
Power Supply	800W, Mixed Mode	2
Features	iDRAC9 Enterprise	