



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 S-IT-2022-00599 International Connectivity Hub – Singapore project. Please refer to the following information or attached TOR (Service Scope) for detailed requirements.

Those interested and qualified companies please register into NDB's [e-procurement system \(EPS\)](#) 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	March 25, 2022
Deadline for Questions	April 11, 2022
Proposal Response Due*	April 14, 2022
Negotiation on contract	TBC
Signing Contract	TBC
Project Kick Off	TBC

*Decision about second round can be done based on the results of first proposals review.

3. Instruction to bidders

3.1 Contact Information

Please use the following contact information for all correspondence with NDB concerning this RFP. **Suppliers who solicit information about this RFP either directly or indirectly from other sources will be disqualified.**

Mr. Ivan Nepeivoda
Email: nepeivoda.ivan@ndb.int

3.2 Submission of Proposals

Proposals shall be prepared in English. Both hard copy and electronic version is acceptable. Hard copy (6copies at least) is **optional** and shall be sent in sealed covers. Electronic version is **obligatory** and shall be submitted online via Electronic 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. 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/data-and-documents/corporate-procurements/>)

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. Vendors 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 may be responded to as a group and sent to all vendors.

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 vendors.

3.5 Proposal Costs

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

3.6 Proposal Format (if applicable)

NDB recommends that the proposal should contain two parts as follows. **The vendor may choose another format if you desire so.**

Volume 1 – Main Proposal

Section 1 Executive Summary

Section 2	Functional Section
Section 3	Technical Section
Section 4	Project Management Section
Section 5	Support Section

The above format is only a recommendation. Suppliers could use other formats if you desire so.

Volume 2 – 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. Note: The payment will be done by international wire transfer, then NDB recommends that the tax fee must be included in the proposal, with respective details. Payment terms applicable - **not less than 30 days.**

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 vendors who are going to complete a proposal.

3.9 Sub-contractor

NDB expects to negotiate and sign contract with one winning vendor. NDB will accept only complete solutions from a primary vendor, and will not accept any proposals that are on only one item or a combination of items from the RFP. The prime vendor 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 vendor and a subcontractor.

3.10 Award Notification

NDB could negotiate with all shortlisted suppliers before deciding the winning vendor. And NDB reserves the right to negotiate further with the winning supplier before and in the contracting process. The remaining vendors will be notified in writing of their selection status.

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 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. Vendors 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, vendors must demonstrate adequate experience in developing and implementing the requested project. NDB's confidence in the vendors' ability to meet deadlines and successfully manage similar projects will be a primary consideration.

Special consideration is given to vendors 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 vendors will be carefully examined. Price will be used as a final indicator for determining the vendor finalists when all other criteria have been normalized.

iv. Presentation and Demonstration

The results of Presentation and Demo 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, vendors should provide adequate information to demonstrate their capabilities to fulfill this task.

5. Contract

The participant shall review the service agreement template provided by NDB in advance. The use of NDB's version of the agreement is preferable. Template agreement and general terms and conditions can be found on the NDB's official web-site <https://www.ndb.int/data-and-documents/corporate-procurements/>

Attachment 1:

Scope of Service

1. Project Background:

NDB relies on cloud providers, inside and outside mainland China, to provide applications to its end users, being external partners, customers or its staff. These applications are delivered in a variety of service models, being IaaS, PaaS or SaaS, and they must be reachable from users located both in mainland China as from users located outside mainland China, with high availability and high performance. As of today, there is only one international connectivity hub for NDB, deployed in HK. This international hub is the bridge between NDB HQ in the mainland China and NDB member countries infrastructure. Also, it is the bridge between NDB IT services, provided by the mainland China cloud providers and global cloud providers, and ensures NDB staff connectivity from domestic Internet in mainland China to the global Internet. This project comprises the deployment of a new connectivity hub for NDB, located in Singapore, therefore enhancing the resiliency and improving the performance of the network infrastructure that supports the applications provided by NDB to end users. This connectivity hub should be directly accessible from NDB's HQs.

2. Project Scope

Deploy a new connectivity hub in Singapore, enhancing the resiliency and improving the performance of the network infrastructure that supports the applications provided by NDB to end users.

This connectivity hub should be directly accessible from NDB's HQs.

Detailed scope:

- New dedicated leased line from NDB HQs in Shanghai to the provider's POP in Singapore.
- New dedicated NDB's connectivity hub in the provider's POP in Singapore.
- New dedicated Global Internet connection from NDB's connectivity hub in Singapore.
- New dedicated leased line to Global Azure Singapore (Southeast Asia) from NDB's connectivity hub in Singapore.
- New dedicated leased line to AliCloud Singapore from NDB's connectivity hub in Singapore.
- Smart Hands service in NDB's connectivity hub in Singapore.
- All the services involved in such a deployment.

3. Functional Requirements

3.1. Direct 100Mbps leased line from NDB HQs to Singapore, provided by different telecom providers, both domestic and global, than the current leased line from NDB HQs to HK. This line should be protected end-to-end, providing a restoration 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 HK. This leased line should have a totally independent path from 3.2, 3.3 and 3.4.

- Minimum availability of the line: 99,5%
- Average latency of the line (RTT): < 65ms
- Maximum packet loss of the line: 0.2%
- Maximum repair time for the line: 4 hours

3.2. Dual ExpressRoute 100 Mbps connectivity to Global Azure Singapore (Southeast Asia) from NDB's connectivity hub in Singapore to NDB's Virtual WAN hub in Global Azure Singapore (Southeast Asia). Possibility of increasing the bandwidth up to 1 Gbps with only logical configurations. This connection should have a totally independent path from 3.1 and 3.4.

- Minimum availability of the line: 99,9%
- Average latency of the line (RTT): < 10ms

3.3. Dual ExpressConnect 100Mbps connectivity to AliCloud Singapore from NDB's connectivity hub in Singapore to NDB's VBR in AliCloud Singapore. Possibility of increasing the bandwidth up to 1 Gbps with only logical configurations. This connection should have a totally independent path from 3.2 and 3.4.

- 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

3.4. Dedicated 100 Mbps Global Internet connection from NDB's connectivity hub in Singapore with BGP full-routing support. Minimum of 5 public IPv4 addresses provided. Possibility of increasing the bandwidth up to 1 Gbps with only logical configurations. This line should have a totally independent path from 3.1, 3.2 and 3.3.

- 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

3.5. New dedicated NDB's connectivity hub in the provider's POP in Singapore.

- Minimum availability of the data center – 99,999%
- 1 cabinet rack (45U)
- kva power availability
- Primary and Redundant power circuits available
- Hardware requirements for the device to be deployed on this rack. Please use 1000BASE-T SFP transceiver module for Category 5 copper wire modules. Other types of SFP modules need to be justified to NDB.



NDB BoM for connectivity hub.xlsx

3.6. Smart Hands service in NDB's connectivity hub in Singapore.

- 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

4. Non-Functional Requirements

- Availability of peering connections to the main Internet providers in Singapore.
- Reasonable latency from NDB member countries to NDB's connectivity hub in Singapore.
- Maximum expected average latency (RTT) from NDB member countries to NDB's connectivity hub in Singapore:
 - Brazil (São Paulo and Brasília): 380 ms
 - Russia (Moscow): 180 ms
 - India (Mumbai): 90 ms
 - South Africa (Johannesburg): 260 ms
 - Bangladesh: 110 ms
 - United Arab Emirates: 80 ms
 - Uruguay: 420 ms
 - Egypt: 200 ms