



## **United Overseas Bank (Thai) PCL**

### **Request for Quotation**

### **DWDMs for Production Data Center and UOB Plaza Bangkok Building (New SKV)**

**Jan 2022**

**By accepting this Request for Quotation (RFQ), the Vendor agrees to maintain confidentiality on the information provided in this document as well as any information supplied by the Bank relating to this project.**

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## 1. INTRODUCTION

- 1.1. United Overseas Bank Limited (the Bank) is inviting your company (the Vendor) to submit information detailed in this Request for Quotation (RFQ), for the Bank's consideration and evaluation for short listing the invited vendor products and services. This request does not represent a binding decision to purchase or lease any of your company's products or services.
- 1.2. This RFQ is to seek vendor provides upgrade or replace (leasing for 5 years) quotation for:
- i. Upgrade or replace 1 DWDM system at PKS Data Center
  - ii. Upgrade or replace 1 DWDM system at UOB Plaza Bangkok building
  - iii. Supply, configuration and installation of DWDMs at PKS Data Center and UOB Plaza Bangkok building followed by UOB (Thai) standard and guideline
  - iv. All proposed product must be certified by product owner in Thailand
  - v. All proposed product will be managed by UOB(Thai) after completed installation
  - vi. Provide cost for buy back after end of contract period
  - vii. Provide interim system support during migration period (01April – 30 Jun 2022) with the same configuration in case of cannot deliver new DWDM system

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## **2. OUR REQUIREMENTS**

### **2.1 1 DWDM system for PKS Data Center (2 Chassis)**

- I. To supply, install and configure 1 DWDM system at PKS Data Center with below requirement per system**
- **2 interfaces to connect to 2 Services Providers This must support Dark Fiber distance at least 45 KM.**
  - **2x40 Gigabit Ethernet (Protected)**
  - **12X10 Gigabit Ethernet (Protected)**
  - **2 Cable to support Cisco QSFP-40G-SR4 Transceiver Module**
  - **4 Interfaces of 16 Gigabit Fiber Channel (FC-16G) This must support and compatible with EMC, Brocade, OEM Brocade SAN Switch/Director**
  - **Provide encryption of all interfaces**

### **2.2 1 DWDM system for UOB Plaza Bangkok building (2 Chassis)**

- I. To support, install and configure 1 DWDM system at UOB Plaza Bangkok building with below requirement per system**
- **2 interfaces to connect to 2 Services Providers This must support Dark Fiber distance at least 45 KM.**
  - **2x40 Gigabit Ethernet (Protected)**
  - **12x10 Gigabit Ethernet (Protected)**
  - **2 Cable to support Cisco QSFP-40G-SR4 Transceiver Module**
  - **4 Interfaces of 16 Gigabit Fiber Channel (FC-16G) This must support and compatible with EMC, Brocade, OEM Brocade SAN Switch/Director**
  - **Provide encryption of all interfaces**

### **2.3 Management Software for DWDM System**

**To support, install and configure management software per system**

- **Provide information of overall system status of all equipment in each of building**
- **Provide all events of all equipment in each of building as below**
  - **Detailed Alarm and Event**
  - **Alarm status reporting**

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### 3. INSTALLATION AND CONFIGURATION

Vendor must provide installation and configuration to support

- The connection from new PKS Data Center to UOB Plaza Bangkok building via DWDM
- Operation procedure and configuration procedure
- Failover Testing
- Perform failure testing within the network and provide a report of the results
- Documentation
  - Document the logical and physical configurations of the network providing thorough descriptions.
  - Provide documented procedures followed during setup of all equipment.
  - Provide documented procedures for day to day operation support and troubleshooting.

### 4. QUOTATION QUERIES AND SUBMISSION

**4.1** All documents of the RFQ submissions should be placed in a sealed envelope marked “Tender Submission for Request for Quotations for DWDMs for Production Data Center and UOB Bangkok Plaza Building” and must be deposited by the bidders into the locked procurement box and to be addressed to:

File	Recipient
1. Technical Proposal 2. Bill of Material without Price 3. Pricing file* 4. Other support document (if any)  * Note : Pricing file must be encrypted and the password must sent in separate e-Mail	Sarachai.San@uob.co.th Supaporn.Ton@uob.co.th Panvipa.Pra@uob.co.th  Wiboon.Dam@uob.co.th Somjate.Sut@uob.co.th Suphajak.Tho@uob.co.th Suchon.Phons@uob.co.th
Pricing Password	Haruethai.Ben@uob.co.th

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\* Only queries submitted via email will be addressed with the subject header as such : [DWDMs for Production Data Center and UOB Plaza Bangkok Building]

4.2 RFQ Clarification on 20 January 2022  
Technical proposal refer clause no.4.1 (file no.1,2,3 & 4 ) should be submitted by E-Mail within 27 January 2022, 12:00 am

## 5. GENERAL INFORMATION

**5.1** This RFQ is meant strictly for the invited Vendor and for the sole purpose of submitting a quotation in response to the RFQ and may not be used or shared with any other party or for any other purpose without the express written consent of the Bank. The information contained in this RFQ is proprietary to the Bank and must be treated by the Vendor as **CONFIDENTIAL**. The Vendor is subject to the **CONFIDENTIALITY AGREEMENT** as detailed in Appendix 1. The information is to be used by each Vendor solely for the purpose of preparing a response to this RFQ and may not be used or shared with any other party or for any other purpose without the express written consent of the Bank.

**5.2** If you are not the intended recipient, please return this RFQ to the Bank immediately.

**5.3** If an invited Vendor decides not to participate in the tender, a letter indicating the decision to withdraw is appreciated.

**5.4** Information received in response to this RFQ will be held in strict confidence and not be disclosed to any party, other than representatives and/or affiliates of the Bank, without the express written consent of the Vendor.

**5.5** In the event of dispute, claim, question or disagreement arising out of or relating to this RFQ, or the breach thereof no Party shall proceed to any form of dispute resolution unless the Parties have made reasonable efforts to resolve the same through mediation in accordance with the mediation rules of Thailand Mediation Centre.

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- 5.6** The Vendor shall provide a demonstration document detailed discussions of the proposed solution base on the assigned dates stipulated by the Bank.
- 5.7** Short listed vendors may be required to further set-up demonstration of their products and services in a Proof-of-Concept workshop.
- 5.8** Where sub-contractors are involved in providing parts of the solution, the Vendor submitting the quotation shall be the main contractor and be responsible for the deliverables of the sub-contractors.
- 5.9** The Bank reserves the right to accept the Vendor's quotation in part or in full, or to reject the quotation, without providing any explanation on the circumstances leading to the decision.

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- 5.10** All costs, direct and indirect, associated with the preparation of the proposed solution including any demonstration, detailed discussions and proof of concept of the proposed solution shall be borne by the Vendor. The Vendor will supply all necessary materials and equipment.
- 5.11** Upon selecting the successful Vendor, the Bank will not accept appeals from unsuccessful parties to add further value to their quotations for purpose of re-evaluation.
- 5.12** All of the equipment provided for this project **MUST** be Brand New and **MUST** be authorized by representative(s) of Manufacturer in Thailand in original document for this project.



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## **6. RFQ REQUIREMENTS**

Vendors are required to submit the proposed architecture design with details illustration on high availability and resiliency, together with pricing information for each requirement.

### **6.1 Proposed Solution Overview**

The vendor shall provide detailed description of the proposed solution which should include

### **6.2 Pricing and Charges**

- 6.2.1 The complete list of prices and charges for the proposed equipment (including the software version/release) and customisation, installation and implementation, training and software license shall be stated in this sub-section including any items which are not chargeable. The pricing structure and assumptions shall be stated.
- 6.2.2 The leasing will be performed for this DWDM project for 5 years, UOBT will be total of ownership after 5 years.
- 6.2.3 All prices and charges quoted should be included included 6th year MA (included installation and onsite support 24x7 within 4 hours)
- 6.2.4 Provide the separate cost quotation for 7th MA
- 6.2.5 All prices and charges shall be quoted in Thai Bath.
- 6.2.6 If an assumed exchange rate is used, the rate shall be stated.
- 6.2.7 All implicit cost shall be clearly stated.
- 6.2.8 The proposed payment schedule and payment mode must be clearly stated in the attachment.

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### **6.3 Training**

6.3.1 Where applicable, relevant training must be provided to ensure effective use of the proposed equipment, for examples, product installation, set-up, problem determination, etc.

### **6.4 Support and Maintenance**

6.4.1 The warranty period shall be clearly indicated in the section on “Pricing and Charges”.

6.4.2 The vendor shall propose a maintenance plan that will take effect after the warranty period. Please indicate:

- Different support plans (during and outside of business hours, weekends, holidays and emergency support services, etc.)
- Scope of support services
- Response / Solution turnaround time
- Problem reporting and escalation process
- Structure, experience, certificate, CV and number of support staff

6.4.3 The maintenance cost, as well as any cost for new releases if applicable, shall be specified in the section on ‘Pricing and Charges’.

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## APPENDIX I - APPROVE MATERIALS AND MANUFACTURERS

### Introduction revised

The quality of all materials shall comply with the standards specified in the specification and the details on the drawings and diagrams. They shall further be of an approved make and suitable for the job.

Any alternatives due to standards normally applied by the manufacturers or resulting from special schemes developed by the manufacturers will be considered on their merits. However, such alternatives must meet the requirements of the SUPERVISOR.

Quantities of each piece of materials shall be as specified on the drawings except for the following items: -

- a) The wiring, cabling and conducting of the electrical installation are to be determined from the drawings and diagrams. 
- b) All small items not specifically mentioned but necessary for a complete installation, are to be estimated, based on good, acceptable practice and proper workmanship. 
- c) Data regarding capacities are given in the tabulation table on the drawings and/or specified in the Specification. 

### List of Approved Manufacturer

This list of approved manufacturers is given as a standard of quality. If a bidder wishes to offer apparatus of a make not mentioned in this list, he shall ascertain himself that such make is of equal quality to that mentioned in the Specification, and he shall furnish with his bid full details of the apparatus in order to enable the SUPERVISOR to judge the quality of the make offered

Item	Equipment
1	ADVA
2	Huawei

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