



# LANDBANK

**SUPPLEMENTAL/BID BULLETIN NO.2  
For LBP-ICTBAC- ITB-GS-20240912-01**

**PROJECT:** Supply, Delivery, Installation and Configuration of Dense Wavelength Division Multiplexing for the Head Office and Colocation Site with Three (3) Years Warranty and Technical Support

**DATE:** 06 November 2024

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This Supplemental/Bid Bulletin is issued to modify, amend and/or clarify certain items in the Bid Documents. This shall form an integral part of the Bid Documents.

Modifications, amendments and/or clarifications:

1. Response to prospective bidder/s queries/clarifications per attached Annexes H1 – H5.
2. Section VII. Technical Specifications (page 42), Checklist of the Bidding Documents (pages 65-66) and Terms of Reference (Annexes D1 – D4) have been revised. Copies of said revised portions of the Bidding Documents are herein attached.
3. The Bidder/s are reminded that the deadline of Bid Submission and Opening is on 13 November 2024 at 10:00 AM. **Late bids will not be accepted.**
4. The bidder/s is/are encouraged to use the Bid Securing Declaration as Bid Security.

**SVP MARILOU L. VILAFRANCA**  
Chairperson, ICT-BAC

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# Technical Specifications

<b>Specifications</b>	<b>Statement of Compliance</b>
<p><b>Supply, Delivery, Installation and Configuration of Dense Wavelength Division Multiplexing for the Head Office and Colocation Site with Three (3) Years Warranty and Technical Support</b></p> <ol style="list-style-type: none"><li>1. Minimum technical specifications and other requirements per attached <b>Revised Annexes D-1 and D-4.</b></li><li>2. The documentary requirements enumerated in <b>Revised Annex D-3</b> of the Terms of Reference shall be submitted in support of the compliance of the Bid to the technical specifications and other requirements.</li></ol> <p>Non-submission of the above documents may result in the post-disqualification of the bidder.</p>	<p><b>Bidders must signify their compliance to the Technical Specifications/Terms of Reference by stating below either "Comply" or "Not Comply"</b></p> <p>Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.</p> <p><b>Please state here either "Comply" or "Not Comply"</b></p>

6. The prospective bidder's computation for its Net Financial Contracting Capacity (NFCC) following the sample form (Form No. 5), or in the case of Procurement of Goods, a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.
- **Eligibility Documents – Class “B”**
    7. Duly signed valid joint venture agreement (JVA), in case the joint venture is already in existence. In the absence of a JVA, duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful shall be included in the bid. Failure to enter into a joint venture in the event of a contract award shall be ground for the forfeiture of the bid security. Each partner of the joint venture shall submit its legal eligibility documents. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance, provided, that the partner responsible to submit the NFCC shall likewise submit the statement of all its ongoing contracts and Audited Financial Statements.
    8. For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos, Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
    9. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.
  - **Technical Documents**
    10. Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).
    11. Section VI – Schedule of Requirements with signature of bidder's authorized representative.
    12. **Revised Section VII** – Specifications with response on compliance and signature of bidder's authorized representative.
    13. Duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

**Note:** *During the opening of the first bid envelopes (Eligibility and Technical Component), only the above documents will be checked by the BAC if they are all present using a non-discretionary “pass/fail” criterion to determine each bidder's compliance with the documents required to be submitted for eligibility and the technical requirements.*



- **Other Documents to Support Compliance with Technical Specifications [must be submitted inside the first bid envelope (Eligibility and Technical Component)]**
14. Terms of Reference duly accomplished and signed in all pages by the authorized representative/s of the bidder.
  15. Manufacturer's authorization or any equivalent document confirming that the bidder is authorized to provide the product and brand being offered and consumables supplied by the manufacturer, including any warranty obligations and after sales support as may be required (sample form - Form No.9).
  16. **Current certification of Gold Partner or equivalent from the manufacturer for the solution being offered.**
  17. Business Continuity Plan that will support the operations of a Commercial or Universal Bank and List of Updated Technical Support Unit with name, contact number and email addresses.
  18. List of locally employed engineers to support the installations, configurations and 24x7 uptime services with technical resume and valid certifications for the following personnel :
    - Three (3) Certified Internetwork Expert Engineers
    - Four (4) Certified Network Convergence System (NCS) Engineers
    - Four (4) Certified Optical Technology Advance (OPT300) Engineers
  19. Dedicated Project Manager to oversee the project, locally employed and with at least (5) years work experience as Project Manager with the following:
    - Project Management Professional Certification
    - Curriculum Vitae/Resume
    - List of at least ten (10) projects being handled within the Financial/Bank Industry with list of the client company name, name of project, contact numbers and email address
  20. List of manufacturer local sales and technical office in the Philippines for the guaranteed support with contact person, address, contact number and email address.
  21. List of at least one (1) installed base clients of the brand offered with client name, contact person, address, telephone number and email address.
  22. Detailed Escalation Matrix including contact numbers and email addresses.

**Supply, Delivery, Installation, and Configuration of LANDBANK Dense Wavelength Division Multiplexing (DWDM) for the Colocation site and H.O. with Three years Warranty and 24x7 Technical support**

Item	REQUIREMENT	WILL COMPLY? YES/NO
<b>1. GENERAL REQUIREMENTS - DWDM Equipment</b>		
1	The Solution must have one Dense Wavelength Division Multiplexing (DWDM) device for each site - Head Office (HO) and Colocation site	
2	The proposed DWDM Device chassis must have at least 6 service slots and must occupy no more than 6RU rack space.	
3	The proposed DWDM Device chassis must have at least 200G trunk capacity license in Malate Data Center and in the Colocation Site.	
4	The proposed solution should have Traffic matrix/services: - 8 x 10G Ethernet - 8 x 16G FC	
5	The proposed solution should have a 400Gbps Line Card that would support a mix of 40x 10G, 8x 40GE+8x10GE and 4x 100G signals up to a maximum bandwidth of 400 Gbps, while providing the ability to selectively groom these services into 2 wavelengths capable of 200 Gbps each.	
6	The proposed solution should have 2 units of CFP2-WDM Transceivers or equivalent per appliance for Line Interface with corresponding specification: - Interface: Duplex LC - Transmitter Output Power Min/Max (dBm): -11.5 to -1.5 dBm - Receiver Input Power Min/Max (dBm): -20 to 0 dBm - Fiber Type: SMF (Single Mode Fiber)	
7	The proposed solution should have 2 units QC-16GFC-SW Transceivers or equivalent per appliance for FC Client Interface with corresponding specification: - Transmitter Output Power Min/Max (dBm): -3 (OMA) to 0 per wavelength - Receiver Input Power Min/Max (dBm): -6 (OMA) to +2.4 per wavelength - Transmit Wavelength: 850 nm - Fiber Type: 50 micron MMF - Fiber Connector: 12-fiber MPO - Cable Distance: 33 m (OM3 fiber) and 50 m (OM4 fiber)	
8	The proposed solution should have 2 units of QSFP-40G-SR4 Transceivers per appliance for Gigabit Ethernet Client Interface with corresponding specification: - Interface: IEEE 40GBase-SR4, 10GBase-SR - Transmitter Output Power Min/Max (dBm): -7.6 to -1.0 per wavelength - Receiver Input Power Min/Max (dBm): -9.5 to +2.4 per wavelength - Transmit Wavelength: 850 nm - Fiber Type: 50 micron MMF - Fiber Connector: 12-fiber MPO - Cable Distance: 100 m (OM3 fiber) and 150 m (OM4 fiber)	
9	The solution must have the latest generation Digital Signal Processors (DSPs) provide a dramatic boost to the optical performance of 100 Gbps QPSK and 200 Gbps 16-QAM. Availability of 8-QAM Modulation format further enhance the Long-Haul capability of the system, allowing to take advantage of additional transport capacity for all cases where 100 Gbps reach is not needed	
10	The proposed DWDM Device chassis must have a LCD and Memory Display.	
11	The proposed DWDM Device chassis must have a dual Transport Node Controller card to provide timing, communication, multishelf management, alarming, and passive device management. The TNC also provides optical-service-channel (OSC) termination	



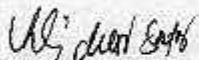
	through two SFP ports, with support for Fast Ethernet and Gigabit Ethernet connections, in addition to OC-3/STM-1 for backward compatibility	
12	Proposed solution must have redundant Power supply	
13	The Solution must operate with the input voltage of 240VAC	
14	The Solution must have fan redundancy. Equipment should be able to run after a failure of one fan without any limitation on the functions or modules supported.	
15	The Solution must have hot-swappable cards and hot-swappable pluggable line interfaces and client interfaces.	
16	The Solution should provide the details of reliability and availability of the proposed equipment and its modules/rack of at least 1 each: -Control Module -System Redundancy -Power Redundancy	
17	The Solution should have details of environmental requirements to implement and operate the proposed equipment in the following areas: -Operational Temperature & Heat Dissipation -Other requirements	
18	The proposed equipment should be in compact size with supports high ports density.	
19	The Solution must have Network Management and Monitoring system.	
20	The Solution must have User Management System.	
21	The Solution can be mounted into 19-inch, 21-inch, or 23-inch racks or cabinets.	
22	The Solution should be able to provide Mean time before failure (MTBF)	
23	The Solution should be able to provide an equipment that have hot-swappable Fan	
24	The Solution should be able to provide an equipment with front to back airflow cooling configuration.	
25	The Solution should support performance monitoring intervals of 15 min and 24hr	
26	The Solution should support Management via GUI	
27	The Solution should have log alarm management, suppression, and control	
28	The Solution should be able to provide an equipment that supports extender/expansion shelf.	
29	The proposed DWDM Device must be managed by application which offers the following features: Multilayer graphical network, node, and card visibility • A-to-Z network-based service provisioning • Graphical software wizards to simplify and speed user operations for such tasks as: - Initial network turn-up - Service provisioning - Network, node, and bandwidth upgrades	
30	The proposed client and Trunk optics of the DWDM Device chassis should be based on pluggable modules, allowing a true pay-as-you grow investment profile where card personality is defined and redefined at the pluggable level	
31	The proposed DWDM Device 400Gbps Line Card should feature multiple software configurable modulation schemes to cope with tradeoffs between reach and transport capacity per wavelength. The primary modulation schemes leveraged today for DWDM transmission are QPSK, 8-QAM and 16-QAM.	
32	The Solution should have a Single console of the proposed network management system capable of managing the whole proposed network.	

33	Transceivers should be same brand as the product being offered to avoid any unforeseen compatibility issues.	
	<b>2. WARRANTY</b>	
34	Proposed DWDM must include Three (3) years warranty on all parts, components, peripherals and both Hardware (parts and labor) and Software included in the bid. Support through Maintenance Agreements (both for hardware and software, including licenses. Warranty shall cover any reconfiguration after successful implementation	
	<b>3. SUPPORT SERVICES</b>	
35	Support services shall cover all software updates, patches and upgrades within the three (3) year support period.	
36	Must include onsite support for severity one (1) issues and/or upon the request of LBP. LBP SLA on incident and problem management will be observed.	
	<b>4. DELIVERY LEADTIME</b>	
37	Delivery, Installation, and configuration Period: Ninety (90) calendar days after receipt of NTP.	
	<b>5. BIDDER'S CRITERIA</b>	
38	The bidder must be a certified GOLD partner or equivalent of the solution being offered. Bidder must submit proof of GOLD or equivalent certification from the manufacturer.	
39	The bidder must comply with the requirements in relation to Third Party/Vendor Assessment conducted by the Bank internal audit and external audit such as Bangko Sentral ng Pilipinas (BSP), Commission on Audit (COA), etc.	
40	The bidder must comply with the requirements in relation to Third Party / Vendor Assessment conducted by the Bank. The bidder must submit documents e.g. Business Continuity Plan (BCP) that will support the operations of a commercial or universal bank, and List of Updated Technical Support Unit (include name, contact number, and email addresses, etc.)	
41	The bidder must have certified and locally employed engineers to support the installations, configurations and 24x7 uptime services within the warranty period.	
42	Bidder must submit list of local IT Engineers with Technical resume and valid certifications issued by the manufacturer of the product being offered for the following personnel.	
	3 Certified Internetwork Expert Engineers	
	4 Certified Engineers for Network Convergence System Deployment	
	4 Engineers with Optical Technology Advance certification	
43	The bidder must provide a dedicated Project Manager (PM) to oversee the project with PMP Certification. The Project manager must be locally employed with at least Five (5) years work experience as PM. Bidder's PM must submit CV/Resume and list of projects handled with at least ten (10) projects within the Financial/Bank Industry, indicate on list the client company name, name of project, contact numbers and email address. Must submit PMP certification, CV/Resume and list of projects handled.	
44	The Manufacturer must have local sales and technical office in the Phils. for the guaranteed support. Must submit the list of the contact person, address, contact number, email address.	
45	The bidder must submit at least one (1) installed base clients of the brand offered. Provide client name, contact person, address, telephone number and email.	
46	The bidder must have a local Helpdesk/servicedesk to provide 24 x 7 technical assistance. Bidder's must submit the escalation and support plan procedure/matrix.	



47	The bidder must provide Technical training for at least five (5) LBP IT personnel within 90 days after the start of Installation and configuration period. Bidder will submit a list of trainees.	
<b>6. PAYMENT</b>		
48	<p>The supplier must submit the following requirements for 100% payment upon project completion.</p> <ul style="list-style-type: none"> <li>• Sales Invoice/Billing Statement / Statement of Account</li> <li>• Delivery Receipt with printed name and signature of LANDBANK employee who received the delivery and actual date of receipt of items.</li> </ul> <p>Payment shall be through direct credit to the supplier's deposit account with LANDBANK. The supplier is required to maintain a deposit account with LANDBANK's Cash Department or any of its Branches.</p>	

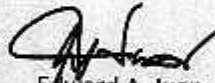
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### RESPONSES TO BIDDER'S QUERIES AND/OR SUGGESTIONS

RESPONSES TO BIDDER'S QUERIES AND/OR SUGGESTIONS DATE	November 4, 2024
PROJECT IDENTIFICATION NO.	LBP-ICTBAC-ITB-GS-20240912-01
PROJECT NAME	Supply, Delivery, Installation and Configuration of Dense Wavelength Division Multiplexing for the Head Office and Colocation Site with Three (3) Years Warranty and Technical Support
PROPONENT UNIT/TECHNICAL WORKING GROUP	Head Office Network Management Department
Bidders	Netsec Technologies Inc. One Commerce (Intl.) Corporation

ITEM NO.	PORTION OF BIDDING DOCUMENTS	QUERIES AND /OR SUGGESTIONS	LANDBANK'S RESPONSES
2	The proposed DWDM Device chassis must be 6RU with 6 service slots.	Can other sizes of DCI equipment be provided, such as 2U, 8 slots? This would have lesser space, power consumption and more service slots.	2. The proposed DWDM Device chassis must have at least 6 service slots and must occupy no more than 6RU rack space.
4	The proposed solution should have Traffic matrix/services: - 8 x 10G Ethernet - 8 x 16G FC	Is the service matrix from Malate Data Center to the Colocation Site; point-to-point 8*10Ge and 8*16G FC; Can you provide topology diagram and locations?	The connection from Malate to the Colocation site will be through a Lambda link that is being procured separately.
5	The proposed solution should have a 400Gbps Line Card that would support a mix of 40x 10G, 8x 40GE+8x10GE and 4x 100G signals up to a maximum bandwidth of 400 Gbps, while providing the ability to selectively groom these services into 2 wavelengths capable of 200 Gbps each.	Can we use 2*200G line rate port per card? For the 400G line card requirement.	The bank should have the option to use the 400G line card as it sees fit and should not be limited to 200G rate limit.
7,8	The proposed solution should have 2 units QC-16GFC-SW Transceivers or equivalent per appliance for FC Client Interface with corresponding specification: - Transmitter Output Power Min/Max (dBm): -3 (OMA) to 0 per wavelength	Can we use different vendor for the Transceiver? It can still comply with the specifications mentioned.	Will add line item no. 33. 33. Transceivers should be same brand as the product being offered to avoid any unforeseen compatibility issues.

Annex H-1

	<ul style="list-style-type: none"> <li>- Receiver Input Power Min/Max (dBm): -6 (OMA) to +2.4 per wavelength</li> <li>- Transmit Wavelength: 850 nm</li> <li>- Fiber Type: 50 micron MMF</li> <li>- Fiber Connector: 12-fiber MPO</li> <li>- Cable Distance: 33 m (OM3 fiber) and 50 m (OM4 fiber)</li> </ul> <p>The proposed solution should have 2 units of QSFP-40G-SR4 Transceivers per appliance for Gigabit Ethernet Client Interface with corresponding specification:</p> <ul style="list-style-type: none"> <li>- Interface: IEEE 40GBase-SR4, 10GBase-SR</li> <li>- Transmitter Output Power Min/Max (dBm): -7.6 to -1.0 per wavelength</li> <li>- Receiver Input Power Min/Max (dBm): -9.5 to +2.4 per wavelength</li> <li>- Transmit Wavelength: 850 nm</li> <li>- Fiber Type: 50 micron MMF</li> <li>- Fiber Connector: 12-fiber MPO</li> <li>- Cable Distance: 100 m (OM3 fiber) and 150 m (OM4 fiber)</li> </ul>	<p>Is Fiber Connector: 12-fiber MPO required?</p>	<p>Yes</p>
<p>7</p>	<p>The proposed solution should have 2 units QC-16GFC-SW Transceivers or equivalent per appliance for FC Client Interface with corresponding specification:</p> <ul style="list-style-type: none"> <li>- Transmitter Output Power Min/Max (dBm): -3 (OMA) to 0 per wavelength</li> <li>- Receiver Input Power Min/Max (dBm): -6 (OMA) to +2.4 per wavelength</li> <li>- Transmit Wavelength: 850 nm</li> <li>- Fiber Type: 50 micron</li> </ul>	<p>For the Transmit Power, do they allow wide range of tx power?</p>	<p>Transmit power should comply with range stated in item 7.</p>



	<p>MMF</p> <ul style="list-style-type: none"> <li>- Fiber Connector: 12-fiber MPO</li> <li>- Cable Distance: 33 m (OM3 fiber) and 50 m (OM4 fiber)</li> </ul>		
8	<p>The proposed solution should have 2 units of QSFP-40G-SR4 Transceivers per appliance for Gigabit Ethernet Client Interface with corresponding specification:</p> <ul style="list-style-type: none"> <li>- Interface: IEEE 40GBase-SR4, 10GBase-SR</li> <li>- Transmitter Output Power Min/Max (dBm): -7.6 to -1.0 per wavelength</li> <li>- Receiver Input Power Min/Max (dBm): -9.5 to +2.4 per wavelength</li> <li>- Transmit Wavelength: 850 nm</li> <li>- Fiber Type: 50 micron MMF</li> <li>- Fiber Connector: 12-fiber MPO</li> <li>- Cable Distance: 100 m (OM3 fiber) and 150 m (OM4 fiber)</li> </ul>	Is 300m Cable distance acceptable?	Cable length is acceptable as long as it can comply with the OM3 and OM4 requirements.
37	<p>The bidder must be a certified GOLD partner of the solution being offered. Bidder must submit proof of GOLD certification from the manufacturer.</p>	<p>Since we are submitting a different DWDM Brand, can we provide a different partner certification level from our Principal which is equivalent to GOLD partner?</p>	<p>38. The bidder must be a certified GOLD partner or equivalent of the solution being offered. Bidder must submit proof of GOLD or equivalent certification from the manufacturer.</p>
40	<p>The bidder must have certified and locally employed engineers to support the installations, configurations and 24x7 uptime services within the warranty period. Bidder's must submit the following manufacturer's un-expired and current date certifications and to include the technical resume 3 x Certified Internetwork Expert</p>	<p>Since we are submitting a different DWDM Brands, May we provide a list of Technical Personnel with the corresponding certification from our principal?</p>	<p>Technical personnel must be employed by bidder and not the Principal. Certifications may be equivalent to the ones mentioned in the TOR, but we will adhere to the number of certified engineers. Bidder must provide certification from Principal.</p>

Annex H-3


	<p>4 x Network Convergence System (NCS) Deployment Certificate or equivalent</p> <p>4 x Optical Technology Advance (OPT300) Certificate or equivalent</p> <p>The bidder must provide a dedicated Project Manager (PM) to oversee the project with PMP Certification. The Project manager must be locally employed with at least</p>		
41	<p>Five (5) years work experience as PM. Bidder's PM must submit CV/Resume and list of projects handled with at least ten (10) projects within the Financial/Bank Industry, indicate on list the client company name, name of project, contact numbers and email address. Must submit PMP certification, CV/Resume and list of projects handled</p>	<p>Can we reduce the no. of projects handled or can we include other industry on the list of project handled in lieu of a very limited number of Banks/FSI in the Philippines?</p>	<p>We will adhere to the number of projects as this item will support the capability of the PM to properly implement and support projects concerning Banks and its operations.</p>
		<p>Regarding the port, card and module requirements, do they all need to be strictly in accordance with the requirements of the tender?</p> <p>According to our understanding, it is best to be able to perfectly transmit services and leave a foundation for subsequent expansion</p>	<p>The requirements should be complied by the bidder. Bidder may choose to include additional ports or slots for expansion as long as the product delivered upon award will comply with all the requirements in the TOR.</p>
		<p>Is line protection required?</p>	<p>Line protection will fall on the Lambda link being procured separately.</p>
		<p>Is there an existing Server HW that can be used for the NMS, or bidder to include the Server HW in the proposal</p>	<p>The NMS should be built-in to the product being offered and is not a separate NMS.</p>
		<p>Is there an existing Rack, or bidder to include Rack in the proposal?</p>	<p>Existing racks will be used.</p>

Annex H-4

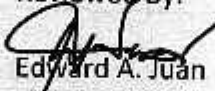


		Is FOC available already? Can Land Bank provide fiber characteristic?	If this is pertaining to the cables, vendor must provide FC Cables for use with the product being offered.
		Can we conduct site survey?	Site survey may be conducted after award of bid as this may cause delays in the opening of bids.
		Can we request extensions for Bid Submission?	No. This will cause delays in the opening of bids.
		Can we request Extensions for Project Completion to 180 days?	We will adhere to the project completion of 90 days as stated in item 36 of the TOR.
		For the Single Largest Completed Contract (SLCC), can we consider any Optical Transmission Project i.e. IP-MPLS, MPLS- TP?	As stated in page 21 of the Bid Documents, the completed contract must be similar to the project. For the project to be considered similar, it must be related to the implementation of a DWDM device.

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 ITO, HONMD

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Annex H-5