



LANDBANK

SERVING THE NATION



BAGONG PILIPINAS

**SUPPLEMENTAL/BID BULLETIN NO. 3
For LBP-ICTBAC-ITB-GS-20240221-02**

PROJECT : **Supply, Delivery, Installation and Configuration of Enterprise Data Warehouse System with Two (2) Years Warranty and Support Services**

IMPLEMENTOR : **ICT-BAC Secretariat Unit**

DATE : **26 April 2024**

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

Modifications, amendments and/or clarifications:

1. The Bidder/s are encouraged to use the Bid Securing Declaration as Bid Security.
2. Section VII. Technical Specifications (pages 41 and 42), Section VIII. Checklist of Bidding Documents (pages 65 to 68), and the Terms of Reference (Revised Annexes D-1 to D-30) have been revised. Copies of said revised portions of the Bidding Documents are herein attached.
3. Please refer to the attached Annexes G-1 to G-6 for the responses to bidder's queries/clarifications.
4. Please be reminded that the deadline of bid submission and opening is on 03 May 2024 at 10A.M. Late submission of bids is not allowed.


EVP LEILA C. MARTIN
Chairperson

Technical Specifications

Specifications	Statement of Compliance
<p>Supply, Delivery, Installation and Configuration of Enterprise Data Warehouse System with Two (2) Years Warranty and Support Services</p> <ol style="list-style-type: none">1. Minimum technical specifications and other requirements per attached Revised Annexes D-1 to D-30.2. The documentary requirements enumerated in Annex D-18 to D-20 of the Terms of Reference shall be submitted in support of the compliance of the Bid to the technical specifications and other requirements. <p>Non-submission of the above documents may result in the post-disqualification of the bidder.</p>	<p>Bidders must signify their compliance to the Technical Specifications/Terms of Reference by stating below either "Comply" or "Not Comply"</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>Please state here either "Comply" or "Not Comply"</p>

Conforme:

Name of Bidder

Signature over Printed Name of
Authorized Representative

Position

Checklist of Bidding Documents for Procurement of Goods and Services

The documents for each component should be arranged as per this Checklist. Kindly provide guides or dividers with appropriate labels.

Eligibility and Technical Component (PDF File)

- **The Eligibility and Technical Component shall contain documents sequentially arranged as follows:**

- **Eligibility Documents – Class “A”**

Legal Eligibility Documents

1. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);

Technical Eligibility Documents

2. Duly notarized Secretary's Certificate attesting that the signatory is the duly authorized representative of the prospective bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the bidding, if the prospective bidder is a corporation, partnership, cooperative, or joint venture; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. (sample form - Form No. 7).
3. Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid, within the last five (5) years from the date of submission and receipt of bids. The statement shall include all information required in the sample form (Form No. 3).
4. Statement of the prospective bidder identifying its Single Largest Completed Contract (SLCC) similar to the contract to be bid within the relevant period as provided in the Bidding Documents. The statement shall include all information required in the sample form (Form No. 4).

Financial Eligibility Documents

5. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.

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.

o **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.

o **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. Section VII – **Revised Technical 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. Duly filled-out Terms of Reference 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/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. Certificate of Inspection issued by the Head of Data Center Management Department (DCMD).
 17. List of three (3) completed similar system solution projects in the Philippines for the last five (5) years with company name, name of project, contact numbers and email addresses supported with copies of Purchase Order or Contract.
 18. **Any documentation from the manufacturer for product technology roadmap of the proposed solution.**
 19. Resume/Curriculum Vitae and Information Technology Infrastructure Library (ITIL) Certification of at least five (5) onsite support personnel with at least five (5) years experience in management and maintenance and with at least five (5) years of tenure with the bidder's organization.
- **Post-Qualification Documents/Requirements – [The bidder may submit the following documents/requirements within five (5) calendar days after receipt of Notice of Post-Qualification]:**
 20. Business Tax Returns per Revenue Regulations 3-2005 (BIR No.2550 Q) VAT or Percentage Tax Returns for the last two (2) quarters filed manually or through EFPS.
 21. Latest Income Tax Return filed manually or through EFPS.
 22. Original copy of Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).
 23. Original copy of duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

24. Duly notarized Secretary's Certificate designating the authorized signatory in the Contract Agreement if the same is other than the bidder's authorized signatory in the bidding (sample form – Form No. 7).

Financial Component (PDF File)

• ***The Financial Component shall contain documents sequentially arranged as follows:***

1. Duly filled out Bid Form signed by the Bidder's authorized representative (sample form - Form No.1).
2. Duly filled out Schedule of Prices signed by the Bidder's authorized representative (sample form - Form No.2).
3. Duly filled-out Bill of Quantities Forms signed by the Bidder's authorized representative (Annexes E-1 and E-2).

Note: The forms attached to the Bidding Documents may be reproduced or reformatted provided the information required in the original forms and other requirements like signatures, if applicable, are complied with in the submittal.



SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION FOR THE ENTERPRISE DATA WAREHOUSE SYSTEM WITH TWO (2) YEARS WARRANTY AND SUPPORT SERVICES

Instructions on responding to this Technical Specification Document

- a. The vendor/bidder/bidder understands and agrees that the requirements specified in this document are deliverables for the **SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION FOR THE ENTERPRISE DATA WAREHOUSE SYSTEM WITH TWO (2) YEARS WARRANTY AND SUPPORT SERVICES**
- b. All deliverables, its specifications and functionalities, must be satisfied including its necessary prerequisites without additional cost to the Bank.
- c. The vendor/bidder/bidder must answer at the third column whether the proposed Enterprise Datawarehouse System complies or not—answer must be **YES** or **NO**.
- d. The REMARKS column in the table is to be filled out according to the response in the third column:
 - d.1. If answer to the third column is YES: REMARKS column is to be filled out with the complete and specific reference to the supporting document included in the bidding document to support answer/claim.
 - d.2. If the answer to the third column is NO: REMARKS column is to be filled out with the justifications why the proposed Enterprise Datawarehouse System cannot meet the specified requirement; include the complete and specific reference to the supporting document included in the bidding document to support answer/claim.
- e. The supporting documents, cited references to the Enterprise Datawarehouse System Technical Specifications must be indexed or labeled accordingly for easy identification and validation.

1. GENERAL REQUIREMENTS		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
1.1. Solution	1.1.a. The bidder shall supply, deliver, install, and configure a "plug and play", Enterprise Datawarehouse System Enterprise Datawarehouse System and all related hardware and software components including server, networking, and storage systems. The proposed Enterprise Datawarehouse System must have a similar architecture as the Production Datawarehouse Infrastructure or better and must be able to mirror the production environment to the DR server.		
	1.1.b. The proposed Enterprise		

	<p>Datawarehouse System should include:</p> <ul style="list-style-type: none"> • Compute Servers • Storage System Servers • Network Equipment • Server, storage and network peripherals, including FC cables, UTP cables, connectors (SFPs) necessary to connect to the LANDBANK LAN and SAN • Power supply cables 		
	<p>1.1.c. The Enterprise Datawarehouse System solution and all its components should all fit in one (1) 42U rack cabinet.</p>		

2. CAPACITY		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
2.1. Database Servers	<p>2.1.a. The Enterprise Datawarehouse System solution must be able to run the production workload:</p> <ul style="list-style-type: none"> i. Provisioned database servers must not be less than two (2) servers for compute, performance, and capacity ii. database servers must have not less than ninety-six (96) cores per server with clock speed not less than 2.6 GHz iii. provisioned database servers must not have less than five hundred twelve (512) GB memory per server iv. 2U-rack ready, cabled and installed in the rack 		
	<p>2.1.b. The Enterprise Datawarehouse System solution servers must have the following specifications:</p> <ul style="list-style-type: none"> i. equipped with not less than two (2) 3.84TB hot-swappable NMVe SSD ii. at least two (2) Enterprise Datawarehouse System 10/25GB Ethernet ports (Sf28) 		

	<ul style="list-style-type: none"> iii. equipped with not less than two (2) x 100 Gb QSFP28 RoCE Fabric ports iv. equipped with not less than two (2) dual-port 25 GbE SFP28 CX6 PCIe4.0x8 Ethernet adapters v. each server has an Enterprise Datawarehouse System dedicated 1GbE management port vi. each server has a redundant and hot-swappable power supply 		
<p>2.2.Storage System Servers</p>	<p>2.2.a. The proposed Enterprise Datawarehouse System solution must have provision for three (3) storage servers for SQL offload:</p> <ul style="list-style-type: none"> i. each server must not have less than sixty-four (64) cores and a clock speed of at least 2.7GHz ii. each storage server must not have less than 1.5TB DDR5 memory iii. the raw storage capacity should not be less than seven hundred ninety-two (792) TB disks and eighty-one (81) TB performance optimized-Flash iv. 2U-rack ready, cabled and installed in the rack 		
	<p>2.2.b. The proposed Enterprise Datawarehouse System solution must have the following specifications:</p> <ul style="list-style-type: none"> i. each storage server is equipped with 12x 22TB 7200 RPM SAS-3 HDDs disks or better ii. equipped with at least four (4) x 6.8 TB NMVe PCIe4.0 performance-optimized Flash ii. each storage server equipped with one (1) internal 12GB PCIe 16-port Gen4 X8 HBA (NVMe) iii. equipped with not less than two (2) x 100 Gb QSFP28 RDMA over 		

	<p>Converged Ethernet (RoCE) Fabric ports</p> <p>iv. equipped with not less than two (2) dual-port 25 GbE SFP28 CX6 PCIe4.0x8 Ethernet adapters</p> <p>v. each server has an Enterprise Datawarehouse System dedicated 1GbE management port</p> <p>vi. each server has a redundant and hot-swappable power supply</p>		
<p>2.3 High-Speed Network Switches</p>	<p>2.3.a The proposed Enterprise Datawarehouse System solution must include high-speed network switches with high-bandwidth, low-latency active-active 100 Gb/sec RDMA over Converged Ethernet (RoCE) internal fabric that connects all servers and storage and includes database cluster interconnect traffic. via 100 Gb/sec RoCE Network</p>		
	<p>2.3.b Each RDMA over Converged Ethernet (RoCE) Network Fabric should have redundant cooling fans and redundant power supply</p>		
	<p>2.3.c RoCE switches should support passive copper cables for distances lower than 5m and fiber optic cables for distances longer than 5m up to 100m</p>		
	<p>2.3.d RoCE should provide RDMA speed and reliability on Ethernet fabric including 100 Gb throughout, zero packet loss messaging, prioritization of critical database messages, and the latest KVM-based virtualization</p>		
	<p>2.3.e RoCE switch must include a Class of Service in its Network Resource Management feature to prioritize important traffic across the network.</p>		

Revised Annex D-4

	2.3.f RoCE network should have a total throughput of 200 Gb/sec or better.		
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3. SCALABILITY		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
3.1.In-rack Scalability	3.1.a. The proposed Enterprise Datawarehouse System solution must be able to support in-rack scalable configuration of up to 15 database servers and 17 storage servers		
3.2.Capacity and Scalability	3.2.a. Proposed Enterprise Datawarehouse System solution is able to support various configurations of storage server capacity and performance or flash.		
3.3.Storage Interface	3.3.a. Must have ports to support all host connectivity, backup system connectivity, and replication paths;		
3.4.Data Storage Upgrade Capability	3.4.a. Compute, Database and Storage must provide an upgrade path to larger or future capacity and software technology when the time comes for the requirement to present itself. The future requirement will not be limited to the initial single rack — additional storage racks can be provisioned when applicable and necessary.		

4. INTEROPERABILITY		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
4.1.Operating System Support	4.1.a. Proposed Enterprise Datawarehouse System solution must be able to support the following minimum version of operating system platforms: a. Variants of Oracle Linux which includes but not limited to:		

	i. Oracle Linux 8 and UEK6 and newer versions		
4.2. Database Support	4.2.a. Proposed Enterprise Datawarehouse System solution must be able to support the following minimum version of database platform versions: a. Oracle 19c, 21c, 23c and newer versions		
4.3. Application Support	4.3.a. Proposed Enterprise Datawarehouse System solution must be able to support the following minimum version of application platform versions: b. Oracle Financial Services Data Foundation Application (OFSDF) version 8.1.x and newer versions		
4.4. Network	4.4.a. Storage must be able to run on IP or dense wavelength division multiplexing (DWDM)-based platform technology		
4.5. Backup System	4.5.a. Must be able to support connectivity and functionality of the Bank's backup software and hardware		

5. TECHNOLOGY		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
5.1. Analytics functionality	5.1.a. Proposed Enterprise Datawarehouse System solution must have the following analytics technology and functionality: i. Automatic Parallelization and Offload of Data Scans to storage ii. Filtering of Rows in Storage based on 'where' clause iii. Filtering of Rows in Storage based		

	<p>on columns selected</p> <ul style="list-style-type: none"> iv. Storage Offload of JSON and XML Analytic Queries v. Filtering of rows in Storage based on Join with other Table vi. Hybrid Columnar Compression vii. Storage Index Data Skipping viii. . I/O Resource Management by User, Query, Service, DB ix. Automatic Transformation to Columnar Format in Flash Cache x. Smart Flash Caching for Table Scans xi. Storage Offload of Index Fast Full Scans xii. Storage Offloads of Scans on Encrypted Data, with FIPS compliance xiii. Storage offload for LOBs and CLOBs xiv. Storage offload for min/max operations xv. Data Mining Offload to Storage xvi. Reverse Offload to DB servers if Storage CPUs are Busy xvii. . Automatic Data Columnarization xviii Automatic Conversion of Data to In-Memory Formats when Loading into Flash 		
<p>5.2.OnLine Transaction Processing</p>	<p>5.2.a. Proposed Enterprise Datawarehouse System solution must have the following Online Transaction Processing (OLTP) technology and functionality:</p> <ul style="list-style-type: none"> i. Database Aware PCI Flash ii. Smart Flash Caching iii. Smart Flash Logging iv. Smart Write-back Flash Cache v. I/O Prioritization by DB, User, or workload to ensure QOS vi. Direct-to-Wire OLTP Protocol vii. Database Intelligent Network Resource Management 		

	<p>viii. Exachk full-stack validation ix. Full-stack security scanning x. Database scoped security xi. Cell-to-Cell Rebalance preserving Flash Cache and Storage Index xii. Full-Stack Secure Erase xiii. Instant Data File Creation xiv. Smart Fusion Block Transfer xv. Control of Flash Cache Size per Database xvi. In-Memory OLTP Acceleration xvii. Undo-Block Remote RDMA Read xviii. Support for More Than 4000 Pluggable Databases per Container Database with Multitenant Option xix. Unique RDMA Memory Data Accelerator</p>		
<p>5.3.Replication</p>	<p>5.3.a. Must include mirroring software and must be able to mirror data from the data center to the BRS on synchronous replication</p>		
	<p>5.3.b. Replication feature must include full source replication to target storage and incremental replication wherein only the data changes are mirrored to the target storage</p>		
	<p>5.3.c. Data mirroring between two sites must support bi-directional replication and have failover and failback capability.</p>		
	<p>5.3.d. Replication feature must also have the capability to directly restore to the source storage from the backup copy on the remote storage.</p>		
	<p>5.3.e. The backup copy from the replica functionality must also be transferrable to tape media and restore from tape is also a required functionality</p>		
	<p>5.3.f. Must be able to perform replication function on the source</p>		

	storage to the remote storage regardless of the data use whether online or offline		
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6. AVAILABILITY		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
6.1.No Single Point of Failure / System-Level Availability	6.1.a. Proposed Enterprise Datawarehouse System solution must be able to support 99.999% availability and with the following safeguards: <ul style="list-style-type: none"> i. Instant Detection of Node or Cell Failure ii. In-Memory Fault Tolerance iii. Sub-second Failover of I/O on stuck disk or Flash iv. Offload backups to storage servers v. Extended H.A.R.D. Data Validation vi. Prioritize Recovery of Critical Database Files vii. Automatic Repair of Corrupt Disk Data By Reading Other Storage Servers viii. Avoidance of Read I/Os on Predictive failed disks ix. Confinement and power cycle of temporarily poor performing drives x. Shutdown Prevention If Mirror Storage Server is Down xi. Detection and Disabling of Unreliable Network Links xii. Preservation of Storage Index on Rebalance xiii. Storage Index persistence to avoid rebuild on storage server restart xiv. Database In-Memory Columnar Cache persistence to avoid rebuild on storage server restart 		
6.2.Data Protection	6.2.a Must be resilient to manage multiple disk failure without data loss and performance impact		

	6.2.b. Should have the capability of de-staging data from cache to disk to ensure data protection in the event of extended power failure.		
6.3.Site-Level Availability	6.3.a. The Enterprise Datawarehouse System should be able to support both synchronous and asynchronous replication.		
	6.3.b. Licenses for synchronous and asynchronous replication must be included in the proposed Enterprise Datawarehouse System solution.		
6.4.Hot Spares	6.4.a. Must be able to provide automated monitoring of disk drive health and be able to initiate a proactive background drive rebuild on failing drives.		
	6.4.b. Rebuild for a minimum 1TB drive should have little or no rebuild process overhead and performance impact.		
	6.4.c. Must be able to provide hot spares for the offered number of disk drives		
6.5. Load Distribution	6.5.a Must be able to balance data on all system components eliminating the possibilities of a hot-spot being created		
	6.5.b. Must be able to distribute the workload evenly across all hardware component at all times regardless of access patterns.		
6.6.Non-Disruptive Upgrades	6.6.a. The Enterprise Datawarehouse System should support non-disruptive firmware upgrades.		
6.7. Continuous Roadmap	6.7. The proposed Enterprise Datawarehouse System solution brand and model must include a technology roadmap for at least the next three (3) years to ensure the availability of the Enterprise Datawarehouse System		

	solution for the next three to five years.		
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7. MANAGEMENT		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
7.1.Management Server	<p>7.1.a. Proposed Enterprise Datawarehouse System server system solution must have a dedicated management server:</p> <p>i. must not have less than 2x sixteen (16) cores</p> <p>ii. must not have less than one hundred twenty-eight (128) GB memory</p> <p>iii. must not have less than four (4) x 3.84TB SSD.</p>		
	7.1.b. The proposed solution should include management and configuration software that can handle and monitor all hardware and software resources of the given system		
	7.1.c. Support for creating users with specific levels of access that can manage and monitor the whole hardware system		
	7.1.d. Real-time management and monitoring of all the resources of the system		
	7.1.e. The bidder must provide a multi-purpose pro-active platform designed to facilitate a number of Services including Platinum Services, Advanced Monitoring and Resolution, Lifecycle services, and Business Critical Service for Systems.		

	<p>7.1.f. Enterprise Datawarehouse System must have capability to collect fault conditions and should be able to activate call home feature to speed up problem identification and resolution.</p>		
	<p>7.1.g. Enterprise Datawarehouse management system must be able to send email notifications to administrators on various Enterprise Datawarehouse System solution statuses via the Bank's email system: this feature is a vendor/bidder deliverable to configure storage notification feature to work with email.</p>		
	<p>7.1.h. Enterprise Datawarehouse System must include a web-based configuration and management software with no additional cost.</p>		
	<p>7.1.i. Enterprise Datawarehouse management system must include security access features that is role-based, for different access privileges for the administrators and computer operators.</p>		
	<p>7.1.j. Enterprise Datawarehouse management System must be able to generate storage allocation and capacity reports on PDF or equivalent non-editable documents.</p>		
	<p>7.1.k. Enterprise Datawarehouse System management software must be able to generate performance statistics, usage, allocation, including storage and storage replication throughput, disk utilization and fault reports on PDF or equivalent non-editable documents.</p>		

	7.1.l. Enterprise Datawarehouse System management software must be able to provide historical reporting for at least one year data for benchmarking and comparison.		
	7.1.m. Enterprise Datawarehouse System management system requiring a separate server must be included in the proposed Enterprise Datawarehouse System solution.		
	7.1.n. The required management server should be compact and part of the Enterprise Datawarehouse System solution rack, or the separate management server that is standalone must be branded (i.e., IBM, HP, Dell, Oracle, etc.)		
7.2. Management Switch	7.2.a. Proposed Enterprise Datawarehouse System solution must have a dedicated management switch with the following specifications: i. have minimum 48-Port 1 GbE RJ45; (4) 10/25 Gb/sec SFP28 ports; (2) 40/100 Gb/sec QSFP28 ports ii. Ethernet switches should be rack ready and 1U dimension iii. with hot-swappable redundant power supply iv. with hot swappable redundant fan trays.		

8. WARRANTY AND SUPPORT		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
8.1 Support	8.1.a. Proposed Enterprise Datawarehouse System solution includes two(2) year warranty on all parts, components, peripherals and both Hardware (parts and labor) and Software included in the bid. Support thru Maintenance Agreements (both for		

	hardware and software, including licenses) starts on the fourth year.		
	8.1.b. The warranty must include 24/7 access to software and hardware specialists for two (2) years		
	8.1.c. The warranty must cover onsite hardware service and part replacement on a 24/7 basis with 4-hour onsite support for critical incidents for two (2) years		
	8.1.d. The warranty solution must include proactive monitoring, embedded hardware diagnostics and automated service requests for two (2) years		
	8.1.e. The warranty must include critical software updates and bug fixes for two (2) years		
	8.1.f. The warranty must include 24/7 remote fault monitoring, accelerated response times and patch deployment services for two (2) years		
	8.1.g. The bidder must provide a web-based, searchable knowledge base of common problems and solutions. The winning bidder shall assist in the UAT and QA activities of the proposed solution prior production cut-over and ensure that all tests will pass based on the standards		
	8.1.h. The bidder shall provide support in the cut-over activities for production implementation of the proposed solution and ensure successful cut-over based on the standards		
	8.1.i. The bidder shall provide post migration activities and monitoring to ensure optimal operation of the proposed solution		
	8.1.k. The bidder shall install the latest available and compatible software versions in the proposed solution		
	8.1.l. The bidder shall create a baseline of all configuration and performance metrics of the existing data warehouse infrastructure prior migration of		

systems		
8.1.m. Must include onsite support for two (2) years for a severity one (1) issues. LBP SLA on incident and problem management will be observed		
8.1.n. Must include onsite support for non-incident related issues which includes storage configuration customization, performance and data storage use optimization ; Man days for onsite support must not be less than fifteen (15) days for two (2) years and part of the support and maintenance agreement		
8.1.o. Must include quarterly preventive maintenance and health check for two (2) years		
8.1.p. Support is always available and accessible on demand as part of the support services.		
8.1.q On-site support with a response time of not more than 4 hours from the time of the call, in cases when phone support could not solve the problem.		
8.1.r On hardware repair, testing shall be done on-site to know the extent of the problem. All components beyond repair shall be replaced at no cost during the Warranty Period. Service units shall be available for the system and peripherals a day after testing and diagnosis for replacement of the defective unit(s).		
8.1.s Quality assurance is expected from the Supplier, such that any error or fault in any hardware, peripherals, pre-installed mandatory software and installation tools delivered during the implementation shall be acted upon, resolved, mitigated and/or replaced accordingly at no cost to the bank.		
8.1.t. Provision for onsite and remote support for the Bank's annual disaster recovery drills.		

<p>8.1.u. Provision for onsite support for upgrade and migration activities of the application systems running.</p>		
<p>8.1.v. Provision for onsite and remote support for activities which include repairs, preventive maintenance, and data center (head office and offsite) power supply maintenance that may affect the covered components supported by the vendor/bidder.</p>		
<p>8.1.w. Includes 24/7 local and remote technical and help desk support, including holidays.</p>		
<p>8.1.x. Remote technical and help desk support to be provided to LANDBANK includes desktop sharing capability for speedy troubleshooting and problem resolution.</p>		
<p>8.1.y. Includes onsite and remote support for non-incident related issues, such as service request fulfillment related to the covered components for maintenance and support.</p>		
<p>8.1.z The vendor/bidder will shoulder all expenses of the technical person(s) who will be providing the technical services on-site.</p>		
<p>8.1.aa. Have basic provision in the support service, for an online support and services hub or portal or equivalent mechanism for the creation of service, incident, problem and issue tickets.</p>		
<p>8.1.ab. The support and delivery services specified are exclusive for this system solution and must not be related to other products of the same brand that are not part of the technical specifications or the contract unless otherwise specified.</p>		

	<p>8.1.ac Upon final acceptance of the Services and/or Goods, the vendor/bidder is required to provide after-sales service and assurance that all equipment and installation are accurate, complete, operable, uncompromised, and error-free during the Warranty Period.</p>		
<p>8.3 Support Delivery Management</p>	<p>8.3.a. The vendor/bidder will assign a service delivery manager for LANDBANK, which will also serve as the single point of contact for the coverage period of the contract.</p>		
	<p>8.3.b. The assigned service delivery manager must have a service delivery plan for LANDBANK, conduct service reviews, perform incident management, perform proactive services maturity review, and remediation planning for the coverage period of the contract.</p>		
	<p>8.3.c. In case of an incident or problem, the service delivery manager is responsible for support escalation and management of needed support resource for the immediate resolution of the incident or problem.</p>		
	<p>8.3.d The service delivery manager is required to submit a monthly report on the support utilization and status of incidents, problem, request and issue tickets.</p>		

9. QUALIFICATION AND DOCUMENTARY REQUIREMENTS		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
	QUALIFICATION REQUIREMENTS	DOCUMENTARY REQUIREMENTS	
9.1	Vendor must be a certified partner or reseller of the proposed solution	Manufacturer's Certificate	
	<p>Prior to submission of bidding proposal, the vendor must coordinate with LANDBANK-DCMD to conduct a site survey at Data Center Head Office to check the existing site condition and completely assess the requirements as part of the proposed solution without additional cost to the Bank. The survey is necessary to ensure that the proposed solution will be able to function properly and according to expectation.</p> <p>The site inspection will be conducted at least three (3) calendar days before opening of bids from Monday to Friday 8:00am-3pm. Contact person is Ladybird Carag with email address lcarag@mail.landbank.com. She can be contacted thru phone number 8-</p>	<p>Non-disclosure Agreement (NDA) signed by the bidder's authorized representative must be submitted two (2) calendar days prior to the conduct of site inspection.</p> <p>Certificate of Inspection will be issued by DCMD Head for the bidders who will conduct site inspection which shall be form part of the bid proposal.</p>	

	5220000 local 7600.			
	Principal/Partner must have completed at least three (3) similar system solution in the Philippines for the last five (5) years.	List of three (3) completed similar system solution in the Philippines for the last five (5) years. Include company name, name of project, contact numbers and email address of vendor's clients supported with copies of Purchase Order or Contract.		
	The proposed solution brand and model must include a technology roadmap for at least the next three (3) years to ensure the availability of the storage system for the next three to five years	<i>Any documentation from the manufacturer for product technology roadmap of the proposed solution.</i>		
	Support personnel must also be certified, knowledgeable and experienced on proposed Enterprise Datawarehouse System solution, for all its software, hardware and connectivity components, with at least five (5) years' experience in management and maintenance, and at least five (5) years	Curriculum vitae and ITIL Certification of at least five (5) onsite support personnel must be provided in the bidding document		

	tenure with the vendor/bidder organization.		
	Support personnel must be a certified support engineer		
	Support personnel on the proposed Enterprise Datawarehouse System solution is certified on ITIL		

10. TRAININGS		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
10.1. Trainings, Workshops/skills transfer/tech updates/industry best practices	10.1.a. Included in the proposed Enterprise Datawarehouse System solution is a classroom-type training for the following: i. Oracle Linux 7: System Administration (at least three (3) personnel) for five (5) days ii. Oracle Database 19c: Fundamentals for Developers and System Administrators (at least three (3) personnel) for two (2) days iii. Financial Crime and Compliance Management Training (at least two (2) personnel) for five (5) days		
	10.1.b. Proposed Enterprise Datawarehouse System skills transfer with industry best practices for a minimum of five (5) training days upon setup valid for 1 year for at least ten (10) administrators, developers, help desk support personnel, IT security personnel, network administrators, production support		

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	<p>personnel, and computer operators .</p>		
	<p>10.1.c. The vendor/bidder will conduct workshops/skills transfer/tech updates/industry best practices on proposed Enterprise Datawarehouse System solution at least once a year for the active lifetime of the warranty.</p>		
	<p>10.1.d. The vendor/bidder will include a preliminary training plan on the training courses to be carried out including the following:</p> <ul style="list-style-type: none"> • Course Title and Description • Learning Objectives • Class Composition • Course Duration • Training Sequence 		
	<p>10.1.e. The vendor/bidder will provide for the necessary training logistics and paraphernalia for the participants' needs with no additional cost to the Bank</p>		
	<p>10.1.f. For trainings to be conducted at vendor/bidder-elected training site, participants will have access to the internet with no additional cost to the Bank, for the duration of the training, for communication, technical support, and correspondence purposes.</p>		
	<p>10.1.g. The vendor/bidder will issue certificates or proof of training for the participants.</p>		

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11. SERVICES	STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
11.1. Basic Delivery Services	11.1.a. Proposed Enterprise Datawarehouse System solution includes services such as delivery to site, setup, installation and configuration of all hardware and software components.	
	11.1.b. Setup, installation and configuration activities must also include joint inventory with LANDBANK personnel, of all hardware and software components.	
	11.1.c. Services must include implementation of the storage technology functionalities specified in this document and features that are inherent to the Enterprise Datawarehouse System solution.	
	11.1.d. Proposed Enterprise Datawarehouse System solution must include host and data migration services.	
	11.1.e. Services must include migration, reorganization and optimization of the Enterprise Datawarehouse System solution for Oracle Linux.	
	11.1.f. Services include installation, setup, configuration and customization of the Enterprise Datawarehouse System solution management system and consoles for both sites.	
	11.1.g. Services include delivery, setup, configuration at the LANDBANK primary data center, back-to-back mirroring, and relocation of the Oracle Exadata 8 to secondary site.	

a. Skills Transfer	11.2.a. Must provide skills transfer on the operations of the configured storage hardware and software; LANDBANK IT personnel must be able to apply the new knowledge and skills on the Enterprise Datawarehouse System solution		
	<p>11.2.b. Services must include transfer of technology to LANDBANK IT personnel which includes but not limited to :</p> <ul style="list-style-type: none"> i. creation and implementation of policies for backup ii. creation and implementation of local instant copy (within the local Enterprise Datawarehouse System solution) iii. creation and implementation of two-site storage replication to and from the LBP Data Centers iv. creation and implementation of storage allocation for use by a server or LPAR 		

12. GENERAL AVAILABILITY		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
12.1. Product Offering	12.1.a. Proposed Enterprise Datawarehouse System solution, including all of its components, is brand new and using the latest stable available model / version.		
	12.1.b. The hardware and software model, product line, version, or release should NOT be more than 2 years old in the market, starting from the date of the pre-bid conference for this requirement.		

	<p>12.1.c The hardware components' model, product line, and or version, including the associated software, in the proposed Enterprise Datawarehouse System solution, should still have available support and/or warranty for, at least, two (2) years, starting from the delivery date indicated in this document.</p>		
	<p>12.1.d. The proposed Enterprise Datawarehouse System solution model/product should be verifiable via published public documents or through the product's website.</p>		
	<p>12.1.e. The proposed Enterprise Datawarehouse System and its related hardware and software components' product line are not in its end-of-life (EOL) or end-of-support (EOS) phase in the next four years starting from the date of delivery.</p>		
	<p>12.1.f. For cases that the proposed Enterprise Datawarehouse System and its related hardware and software components' product line falls into the EOL or EOS life cycle in the next four years, the proposed Enterprise Datawarehouse System and its related hardware and software components' are upgradeable to the next model in the product line or version with features similar to that of the proposed Enterprise Datawarehouse System and its related hardware and software components', or better, implemented without additional cost to the Bank.</p>		
<p>12.2. Delivery</p>	<p>12.2.a. Delivery of the proposed Enterprise Datawarehouse System, the hardware, software and related components, within 60 calendar days to the installation site upon receipt of the Notice to Proceed (NTP).</p>		
	<p>12.2.b. Setup of the proposed Enterprise Datawarehouse System solution, its hardware, software and related components,</p>		

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	<p>must commence on the third business day from the date of onsite delivery; Thus, all necessary and applicable prerequisites for the Enterprise Datawarehouse System operation must be satisfied.</p>		
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13. REFERENCE		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
13.1. Implementation	13.1.a. The vendor/bidder has a similar Enterprise Datawarehouse System implementation in at least two organizations, one of which is a bank other than LANDBANK, and is referential.		
	13.1.b. The Enterprise Datawarehouse System being proposed by the vendor/bidder have been implemented in, at least, two (2) organizations, where: i. The Enterprise Datawarehouse System is implemented in the customer's primary or secondary data center ii. The customer is a willing reference		
	13.1.c. All site references include certification of satisfaction on the proposed backup software both from the vendor/bidder and the end-user.		

14. OPERATIONAL REQUIREMENTS		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
	14.1.b The Vendor/bidder's services shall be limited only for the purpose of the services contemplated hereunder and any personal information shared to or obtained by the Vendor/bidder, if any, shall be treated in strict confidence and shall be handled with utmost care and cannot be shared to		

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	any parties		
	14.1.c The Vendor/bidder shall not engage another service provider for the implementation of the agreement without the prior permission of LANDBANK.		
	14.1.d All data and information shared, if any, remains the property of the LANDBANK and shall be returned to LANDBANK immediately upon request. Finally, any data breach should be reported to LANDBANK within twenty-four (24) hours from the Vendor/bidder's discovery, for appropriate action.		
	14.1.e The Vendor/bidder complies with the requirements of Republic Act No. 10173, otherwise known as the "Data Privacy Act of 2012", and all other related rules, orders and regulations as may be provided by the National Privacy Commission in relation to the collection, storage, usage, disclosure/sharing, disposal and protection (processing) of Personal Data obtained in connection with this procurement.		
	14.1.f. The vendor/bidder certifies that necessary operational requirements is part of the bidding proposal and will not entail additional cost to the Bank		
	14.1.g. The vendor/bidder certifies that necessary operational requirements is sufficient enough to enable the operation of the proposed Enterprise Datawarehouse System solution, without major modifications on the sites' structural design		
	14.1.h. The vendor/bidder certifies that necessary operational requirements		

	modifications at least follow the Bank's existing site and structural design		
	14.1.i. The vendor/bidder will provide for the required electrical supply of the Enterprise Datawarehouse System solution which includes cables and necessary wiring to the UPS and provision for circuit switches, breakers		
14.2. Deployment	14.2.a. The vendor/bidder must be able to determine the appropriate product for LANDBANK's Enterprise Datawarehouse System requirements, including those specified in this document. The vendor/bidder will size the necessary prerequisites, including storage hardware peripherals to be able to implement the Enterprise Datawarehouse System solution requirement		
	14.2.b. The vendor/bidder will provide for all storage cables that are compatible to the existing servers and host adapter protocols.		
	14.2.c. The vendor/bidder will also include spare storage cable provisions for future integration activities.		

15. OTHER PROVISIONS		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
15.1. These additional provisions are regulatory requirements	15.1.a. Contract Agreement between LANDBANK and the vendor/bidder must include access of LANDBANK to the public financial information of the vendor/bidder		

	<p>15.1.b. The vendor/bidder must include a disaster recovery plan to support LANDBANK for the following conditions:</p> <p>i. in the event that the LANDBANK is in disaster mode</p> <p>ii. in the event that the vendor/bidder is in disaster mode</p>		
	<p>15.1.d. The Bank shall have the right to cancel or terminate the contract without need of legal or judicial action or order upon breach of warranty of peaceful occupation or in exercise of its business decision by giving at least sixty (60) days prior written notice to the Service Provider or by extraordinary notice of cancellation if so required by the Bangko Sentral ng Pilipinas, and without charge or penalty.</p> <p>15.1.e The Vendor must comply with the requirements in relation to Third Party/Vendor Assessment conducted by the Bank. Must submit [eg. Latest Financial Statement (FS), Business Continuity Plan (BCP) that are related to the Bank, and List of Updated Technical Support (include name, contact numbers and email address), etc]</p>		
<p>Performance Evaluation</p>	<p>a. The performance of the supplier shall be evaluated on an annual basis or as often as necessary using the parameters set forth in the Performance Assessment Report (Exhibit 1).</p>		



	<p>b. An adjectival rating of "Needs Improvement" or "Poor" shall be a ground for pre-termination of the contract, subject to a 30 calendar day notice.</p>		
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16. PAYMENT MILESTONE		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
16.1. Terms of Payment	<p>15.1.b. Payment shall be subject to LBP accounting and auditing rules.</p> <p>Payment shall be through direct credit to the Supplier's deposit account with LANDBANK. Supplier is required to maintain a deposit account with LANDBANK's Cash Department or any of its Branches.</p> <ul style="list-style-type: none"> • 50% of the Total Bid Price, upon 100% delivery of the hardware and software licenses • 50% of the Total Bid Price, upon completion of setup, configuration, mirroring, system health check and performance optimization activities 		

17. DOCUMENTATION		STATEMENT OF COMPLIANCE (Yes or No)	REMARKS
17.1 Deliverables Documentation	<p>17.1.a. The vendor/bidder must provide documentation on the system configuration, based on health check activities, which includes but not limited to capacity and performance base lining, zoning and connectivity diagrams of attached systems—these</p>		

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	documentation will serve as additional inputs during succeeding health checks, problem determination and issue resolution.		
	16.1.b. The vendor/bidder must provide documentation on every deliverable specified in this document to record completion.		
	17.1.c. The vendor/bidder must provide documentation on storage operations and must be written in English of durable construction with concise and high quality presentation to include but not limited to the following: <ol style="list-style-type: none"> 1. User Manuals 2. Technical / Reference Manuals 3. System / Operation Manuals 4. Troubleshooting and/or Installation Guides 		
17.2 Media and Format	17.2.a. All documentation must be in hard and soft copies; Soft copies must be stored either on a cloud storage or USB external drive; Soft copy documentation must be in a non-editable format.		
	17.2.b. All software necessary in the delivery and fulfillment of this solution and implementation must be provided with the applicable installation media.		
17.3 Ownership	17.3.a. All documentation shall be the property of the Land Bank of the Philippines and shall reserve the right to reproduce and at no additional cost.		
END of Technical Specifications			


JONES J. BALLESTEROS
 Head, DCMD 

RESPONSES TO BIDDER'S QUERIES AND/OR SUGGESTIONS

DATE	April 17, 2024
PROJECT IDENTIFICATION NO.	LBP- ICTBAC-ITB-GS-20240221-02
PROJECT NAME	Supply, Delivery, Installation and Configuration of Enterprise Data Warehouse System with Two (2) Years Warranty and Support Services
PROPONENT UNIT/TECHNICAL WORKING GROUP	DATA CENTER MANAGEMENT DEPARTMENT

ITEM NO.	PORTION OF BIDDING DOCUMENTS	QUERIES AND/OR SUGGESTIONS	LANDBANK'S RESPONSES
1	Annex D, Page 19 Manufacturer's Certificate of Product Technology Roadmap	Since the principal is not allowed to issue such certification, may we please suggest to consider any write-up regarding the product's strategy and roadmap.	<i>Send any documentation showing the product technology roadmap of the proposed solution.</i>

Prepared by:


MARY JANE L. RAMIREZ

Reviewed by:


JONES J. BALLESTEROS

Head, DCMD

RESPONSES TO BIDDER'S QUERIES AND/OR SUGGESTIONS

DATE	April 12, 2024
PROJECT IDENTIFICATION NO.	LBP- ICTBAC-ITB-GS-20240221-02
PROJECT NAME	Supply, Delivery, Installation and Configuration of Enterprise Data Warehouse System with Two (2) Years Warranty and Support Services
PROPOSER UNIT/TECHNICAL WORKING GROUP	DATA CENTER MANAGEMENT DEPARTMENT

ITEM NO.	PORTION OF BIDDING DOCUMENTS	QUERIES AND/OR SUGGESTIONS	LANDBANK'S RESPONSES
1	General Solution - 1.1 Solution - 1.1A	Since that the architecture of the DR should be similar from the production, can we have an architectural diagram of the production? "Interface of the Cables & Length What are the interface of the cables for the Compute servers, Storage System servers, Network Equipment Power supply" what is the san switch	<i>This will be answered during the site survey which is already included in the Technical Specifications 9.1 Qualifications and Documentary Requirements</i>
2	Scalability - 3.4 Data Storage Upgrade Capability	What would be the Max Desired Storage Capacity	<i>The requirement is stated in the Technical Specifications 3.4.a. [...Future requirements will not be limited to the initial single rack – additional storage racks can be provisioned when applicable and necessary.] means storage is scalable to increase capacity. The maximum desired storage capacity is at least greater than the petabyte capacity without performance degradation.</i>
3	General Solution - 4.5 Data Storage Scalability	What would be the existing bank Backup software and version, Hardware and Model?	<i>The Bank uses Netbackup version 10.1.1/5.1.1 Hardware: Netbackup 5240 and 5250 Appliance</i>
4	Replication - 5.3B	What is the Location of the BRS & Frequency of the Replication	<i>This will be answered during the site survey which is already</i>

			<i>included in the Technical Specifications 9.1 Qualifications and Documentary Requirements</i>
5	Storage System Servers	The raw storage required from 2.2.A and 2.2 B Are not aligned, which one should be followed?	2.2.A specified that the raw capacity should not be less than 792TB disks and 81 performance-optimized Flash; 2.2.B are the minimum specifications of the storage server
6	11.1.E Services must include migration, reorganization and optimization of the enterprise data warehouse system solution for Oracle Linux	Can you provide us the Scope for this project?	<ol style="list-style-type: none"> 1. Installation and Configuration of proposed solution 2. Migration of DB from x8 to proposed solution 3. Reconfigure of x8 and configure standby DR Database 4. Monitoring for x8 relocation from prod to DR 5. Testing and validation
7	14.2.b The vendor / bidder will provide all storage cables that are compatible to the existing servers and host adapter protocols	What are the existing servers and their interfaces?	The existing server is an Oracle Exadata x8 with the integrated storage system.
8	2.2.a. The proposed Enterprise Datawarehouse System solution must have provision for three (3) storage servers for SQL offload: i. each server must not have less than sixty-four (64) cores and a clock speed of at least 2.7GHz ii. each storage server must not have less than 1.5TB DDR5 memory iii. the raw storage capacity should not be less than seven hundred ninety-two (792) TB disks and eighty-one (81) performance optimized-Flash iv. 2U-rack ready, cabled and installed in the rack	Eighty-one portion is incomplete. What size and type are this eighty-one?	Revised Technical Specifications 2.2.a. The proposed Enterprise Datawarehouse System solution must have provision for three (3) storage servers for SQL offload: i. each server must not have less than sixty-four (64) cores and a clock speed of at least 2.7GHz ii. each storage server must not have less than 1.5TB DDR5 memory iii. the raw storage capacity should not be less than seven hundred ninety-two (792) TB disks and eighty-one (81) TB performance optimized-Flash iv. 2U-rack ready, cabled and installed in the rack
9	6.4.c. Must be able to provide hot spares for the offered number of disk drives	No free hot spares can be provided. Can we omit this?	No. Provide alternative solutions or

			<i>detail how the hardware system will protect the Bank's data in the event of hardware disk failure or problems.</i>
10	4.4.a. Storage must be able to run on IP or dense wavelength division multiplexing (DWDM)-based platform technology	Oracle is unaware of this and cannot be provided. Can we omit this?	No. <i>This is required by the Bank. Vendor can further do assessment upon site visit.</i>
11	8.1.r On hardware repair, testing shall be done on-site to know the extent of the problem. All components beyond repair shall be replaced at no cost during the Warranty Period. Service units shall be available for the system and peripherals a day after testing and diagnosis for replacement of the defective unit(s).	While we don't have service units, Oracle Premiere Support covers replacement of defective hw parts. Is this, okay?	Yes.
12	12.1.e. The proposed Enterprise Datawarehouse System and its related hardware and software components' product line are not in its end-of-life (EOL) or end-of-support (EOS) phase in the next four years starting from the date of delivery.	With each new Exadata model launch, there's a period after which previous models may be declared End-of-Life (EOL). This timeline can vary by model. For instance, the X9M remains in operation even though newer models exist. Is this, okay?	Yes. <i>This simply refers to the upgradeability of the products during its lifecycle. For example: patches, updates on firmware, and software versions should be made available as long as the Bank is under Maintenance Agreement with the Vendor.</i>
13	12.1.f. For cases that the proposed Enterprise Datawarehouse System and its related hardware and software components' product line falls into the EOL or EOS life cycle in the next four years, the proposed Enterprise Datawarehouse System and its related hardware and software components' are upgradeable to the next model in the product line or version with features similar to that of the proposed Enterprise Datawarehouse System and its related hardware and software components', or better, implemented without additional cost to the Bank.	Statement is tricky as we don't know if the next release after 4 years will still be compatible.	<i>This simply refers to the upgradeability of the products during its lifecycle. For example: patches, updates on firmware, and software versions should be made available as long as the Bank is under Maintenance Agreement with the Vendor.</i>
14	10.1.a. Included in the proposed Enterprise Datawarehouse System solution is a	Oracle Linux 7 Training is no longer available. Can we do Oracle Linux 8, instead?	Yes.

	<p>classroom-type training for the following:</p> <ul style="list-style-type: none"> i. Oracle Linux 7: System Administration (at least three (3) personnel) for five (5) days ii. Oracle Database 19c: Fundamentals for Developers and System Administrators (at least three (3) personnel) for two (2) days iii. Financial Crime and Compliance Management Training (at least two (2) personnel) for five (5) days 		Oracle Linux 8 or higher.
15	<p>10.1.a. Included in the proposed Enterprise Datawarehouse System solution is a classroom-type training for the following:</p> <ul style="list-style-type: none"> i. Oracle Linux 7: System Administration (at least three (3) personnel) for five (5) days ii. Oracle Database 19c: Fundamentals for Developers and System Administrators (at least three (3) personnel) for two (2) days iii. Financial Crime and Compliance Management Training (at least two (2) personnel) for five (5) days 	<p>We'd like to explore classroom training options that aren't specifically tied to Oracle training. Can we do this?</p>	<p>Yes.</p> <p>As long as it is classroom type training.</p>

Prepared by:


MARY JANE L. RAMIREZ

Reviewed by:


JONES J. BALLESTEROS
 Head, DCMD 

RESPONSES TO BIDDER'S QUERIES AND/OR SUGGESTIONS


DATE	April 21, 2024
PROJECT IDENTIFICATION NO.	LBP- ICTBAC-ITB-GS-20240221-02
PROJECT NAME	Supply, Delivery, Installation and Configuration of Enterprise Data Warehouse System with Two (2) Years Warranty and Support Services
PROPONENT UNIT/TECHNICAL WORKING GROUP	DATA CENTER MANAGEMENT DEPARTMENT

ITEM NO.	PORTION OF BIDDING DOCUMENTS	QUERIES AND/OR SUGGESTIONS	LANDBANK'S RESPONSES
1	<p>Annex D, Page 19 Manufacturer's Certificate of Product Technology Roadmap</p> <p>9.1 Qualifications and Documentary Requirements</p> <p>The proposed solution brand and model must include a technology roadmap for at least the next three (3) years to ensure the availability of the storage system for the next three to five years</p> <p>Manufacturer's Certificate of Product technology roadmap</p>	<p>Since the principal is not allowed to issue such certification, may we please suggest to consider any write-up regarding the product's strategy and roadmap.</p>	<p>YES.</p> <p><i>Revised the Technical Specifications.</i></p> <p>9.1 Qualifications and Documentary Requirements</p> <p>The proposed solution brand and model must include a technology roadmap for at least the next three (3) years to ensure the availability of the storage system for the next three to five years</p> <p><i>Any documentation from the manufacturer for product technology roadmap of the proposed solution.</i></p>

Prepared by:


MARY JANE L. RAMIREZ

Reviewed by:


JONES J. BALLESTEROS
 Head, DCMD