



LANDBANK

SUPPLEMENTAL/BID BULLETIN NO. 2 For LBP-ICTBAC- ITB-GS-20250812-02

PROJECT : **Supply, Delivery, Installation and Configuration of Storage System Solution for the Ingestion of eSOA in IDRARS with Three (3) Years Warranty and Support Services**

DATE : **07 October 2025**

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.

1. Response to prospective bidder/s queries/clarifications per attached Annex H.
2. Section VII. Technical specification (pages 40-41) Checklist of the Bidding Documents (pages 62-65) and Terms of Reference (Annex D-1 to D-22) 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 is on 14 October 2025 at 10:00 AM and Bid Opening is on 14 October 2025 at 10:15 AM. **Late bids will not be accepted.**
4. The bidder/s is/are encouraged to use the **Bid Securing Declaration** as Bid Security.

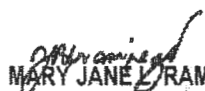

FVP ALWIN L. REYES
Chairperson, ICT-BAC

RESPONSES TO BIDDER'S QUERIES AND/OR SUGGESTIONS

DATE	October 2, 2025	
PROJECT IDENTIFICATION NO.	LBP-ICTBAC-ITB-GS-20250812-02	
PROJECT NAME	Supply, Delivery, Installation and Configuration of Storage System Solution for the Ingestion of eSOA in IDRARS with Three (3) Years Warranty and Support Services	
PROPONENT UNIT/TECHNICAL WORKING GROUP	DATA CENTER MANAGEMENT DEPARTMENT	

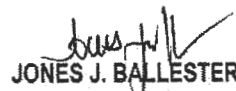
ITEM NO.	PORTION OF BIDDING DOCUMENTS	QUERIES AND/OR SUGGESTIONS	LANDBANK's RESPONSES
1	6.1.a. The proposed solution must not have a replication for computing hosts and all-flash storage	We would like to request the removal of the word "NOT", since the solution should have replication to guarantee the requirement for No Single Point of Failure/System-Level Availability	<i>Revised the Technical Specification requirements.</i> 6.1.a. The proposed solution must have a replication for computing hosts and all-flash storage.

Prepared by:


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ITO, DCMD

Reviewed by:


JONES J. BALLESTEROS

AVP, DCMD 

Technical Specifications

Specifications	Statement of Compliance
Supply, Delivery, Installation and Configuration of Storage System Solution for the Ingestion of eSOA in IDRARS with Three (3) Years Warranty and Support Services 1. Minimum technical specifications and other requirements per attached Revised Annexes D-1 to D-23. 2. The documentary requirements enumerated in Revised Annexes D-15 to D-17 and D-19 of the Terms of Reference shall be submitted in support of the compliance of the Bid to the technical specifications and other requirements. Non-submission of the above documents may result in the post-disqualification of the bidder.	Bidders must state below either "Comply" or "Not Comply" against each of the individual parameters of each Specification preferably stating the corresponding performance parameter of the product offered. 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. Please state here either "Comply" or "Not Comply"

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. **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. **Duly filled-out Revised 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. Curriculum Vitae/Resume of at least one (1) technical support personnel to provide the first level support for the proposed solution.
- 18. Curriculum Vitae/Resume with detailed experience and trainings of two (2) Project Managers (PM), one (1) on site PM employed with the bidder and one (1) on site PM employed with the vendor with at least six (6) months tenure with its respective company.
- 19. List of at least two (2) similar completed projects for the last five (5) years with company name, name of project, contact numbers and email address of vendor's client supported with copies of Purchase Order or Contract.
- 20. Business Continuity Plan (BCP) that are related to the Bank and List of Updated Technical Support, including names, contact numbers, email address, etc.)
- **Post-Qualification Documents/Requirements – [The bidder may submit the following documents/requirements within five (5) calendar days after receipt of Notice of Post-Qualification]:**
- 21. 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.
- 22. Latest Income Tax Return filed manually or through EFPS.
- 23. Original copy of Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).
- 24. Original copy of duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

25. 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 (Annex E).

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 of Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) and 2 compute nodes with Three (3) Years Warranty and Support Services for Head Office and Disaster Recovery (DR) Site

Instructions on responding to this Terms of Reference (TOR) Document

- a. The vendor/bidder understands and agrees that the requirements specified in this document are deliverables for the proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) and 2 compute nodes with Three (3) Years Warranty and Support Services for Head Office and Disaster Recovery (DR) Site.
- b. All deliverables, its specifications and functionalities, must be satisfied including its necessary prerequisites without additional cost to the Bank.
- c. The vendor/bidder must answer at the third column whether the proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) and 2 compute nodes 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 Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) and 2 compute nodes 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 Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) and 2 compute nodes must be indexed or labeled accordingly for easy identification and validation.

1. CAPACITY				
1.1. Usable Capacity Requirement	1.1.a. The vendor must supply, deliver, install, and configure the hardware and software components for two (2) servers with virtualization and one (1) All-Flash enterprise storage per site having the minimum usable resources: Head Office (HO): CPU: 80 Cores (No High Availability) Memory: 300GB (No High Availability)			

	Storage: 100TB (external all flash storage) DR Site: CPU: 80 Cores (No High Availability) Memory: 300GB (No High Availability) Storage: 100TB (external all flash storage) With 20 man-days for remote/onsite support services.			
2. RESOURCES				
2.1. Hardware Requirements	2.1.a. The servers provided should have the following specifications: - The proposed additional capacity of Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) must have at least two (2) compute nodes for the production site, and at least two (2) compute nodes for the DR site - The proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) should have at least 80 usable physical cores, without high availability. - Each node should have at least 2 x 28 Cores @ 2.0GHz Intel Gold CPU - The proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) should have at least 300 GB usable memory, without high availability. - Each node should have at least 256GB Memory per node			

	- Each node should have at least 2 x 960GB SAS SSD System Disks per node - Each node should have at least 2 units of 2 x 10/25GbE SFP+ Network Interface Card with transceivers - Each node should have at least 2 x 1GbE Network ports for management - Each node should have at least 2 x Dual-port FC HBA 16Gb - Each node should be at 2U rack size - Production Site must include a data cabinet with four (4) half-height PDU			
2.2. External Storage	2.2.a. The proposed external storage must be all flash and have at least 200TB uncompressed usable storage of NVME SSD Control Enclosure: - at least 100TB storage with usable (without deduplication & compression) capacity for Head Office (HO) Data Center - at least 100TB storage with usable (without deduplication & compression) capacity for Disaster Recovery Site (DR) Site Data Center			
	2.2.b. Composition of external storage for the 100TB per site (HO and DR) must be all flash NVME SSD and configured on at least RAID 6.			
3. VIRTUALIZATION				
3.1. Virtualization	3.1.a. The proposed virtualization must use perpetual licensing method and must be based on CPU count. The proposed solution should include at least 2 CPU licenses per site			

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		3.1.b. The proposed technology / product / vendor is a member of Distributed Management Task Force (DMTF) and Storage Networking Industry Association (SNIA).			
4. INTEROPERABILITY					
4.1. Operating System Support		4.1.a. The proposed virtualization and all-flash storage solution must be able to support the following operating systems: i. Red Hat Enterprise Linux (version 7 or higher) ii. CentOS (version 7 or higher) iii. Ubuntu (version 16 or higher) iv. Windows Server (version 2012 or higher)			
5. TECHNICAL SPECIFICATIONS					
5.1. Basic Requirements		5.1.a. The proposed virtualization solution must use x86 server nodes			
		5.1.b. The proposed solution must not have a single-point-of-failure for computing and all-flash storage			
		5.1.c. The proposed solution must include licenses for server and storage level replication between production and disaster recovery sites			
		5.1.d. The storage system must include an enterprise centralized storage			
		5.1.e. The storage system controllers must be in active-active mode. Service loads are balanced among two or more controllers			
		5.1.f. The storage must be configured with NVMe SSD all-flash deployment			
		5.1.g. The storage must have the ability to scale out and scale up cluster deployment. The storage must support expansion of up to eight (8) controllers.			
		5.1.h. The controllers use more than 120 physical cores of CPU per storage cluster in each site			
		5.1.i. The total cache capacity of the storage system is greater than or equal to 256GB			
		5.1.j. A high-speed multi-controller (all			

	controllers) interconnection architecture is used. All controllers are interconnected using protocols such as PCIe, IB, or RDMA, instead of FC or IP federation networking			
	5.1.k. The storage must support 16/32 Gbit/s Fibre Channel, 10GE, 25GE, 40GE, 100GE. The proposed storage should include at least eight (8) x 16 FC SFP and 8 x 10 GE ports (with SFP+) to connect to the virtualization servers			
	5.1.l. The storage must support both SAN and NAS. SAN license must be provided in the proposal.			
	5.1.m. The proposed storage system must support SAN active-active disaster recovery solution; license must be provided.			
	5.1.n. Production and DR all-flash storage must provide below features for SAN storage: (1) Management console (2) Thin Provisioning (3) Migration license (4) Snapshot (5) Replication (6) Clone (7) QoS (8) Erasure (9) Deduplication & Compression			
	5.1.o. Production all-flash storage must provide below features for NAS storage: (1) Management Console (2) Quota Management (3) Migration license (4) Snapshot (5) Replication (6) Clone (7) QoS (8) Erasure (9) Deduplication & Compression			
5.2. Management Functions	5.2.a. The virtualization management software supports unified monitoring and management of compute and storage resources, switches, and			

virtualization platforms on one management interface. System health inspection reports can be generated in one click or automatically and periodically. The health inspection reports should show the status of hardware including CPU and memory			
5.2.b. The virtualization can have the logs collected in one click on one management interface. In addition, if fault locating is required, all required logs can be quickly connected, including logs of hardware, virtualization platforms, and management software			
5.2.c. The virtualization components can be upgraded on one interface. The system upgrade function is available on the interface to upgrade virtualization and scale-out/scale-up storage and other components			
5.2.d. The virtualization solution must have call home function. It is possible to configure the system on the management interface to send system alarms to the original vendor 24/7 so that the system alarms can be handled in a timely manner			
5.2.e. The virtualization solution must have a function wherein the node information in the environment can be displayed, including the device name, health status, online status, role, device model, IP address, cabinet, chassis, and slot. Node monitoring information can be viewed, including the CPU usage, memory usage, and inbound and outbound network rates			
5.2.f. The virtualization management users can customize performance charts and specify objects. Information such as the CPU usage, memory usage, bandwidth, IOPS, latency, disk usage, and storage pool usage can be collected			
5.2.g. The virtualization management platform must provide a			

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	comprehensive, end-to-end data and storage management solution that monitors and analyzes multi-vendor storage environments			
	5.2.h. The virtualization management must provide a single point of control that helps administrators manage every aspect of the storage infrastructure—between the hosts, virtualization, through the fabric, and down to the physical drives—across multi-site storage environments			
	5.2.i. The virtualization management must help Storage Administrator for everyday task leveraging a consistent dashboard for managing the broader storage environment			
	5.2.j. The virtualization management must help Administrators set performance thresholds for devices based on selected performance metrics, generating alerts when those thresholds are exceeded			
	5.2.k. The all-flash storage should include GUI (graphical user interface) and CLI (command line interface) to configure the system or query status information			
	5.2.l. The virtualization management platform must be able to perform storage analysis report including but not limited to: • storage capacity prediction • disk risk prediction • performance fluctuation analysis • bottleneck analysis			
5.3. Compute Virtualization	5.3.a. The virtualization solution must have VM QoS, including the CPU upper limit and memory reservation, to meet the performance requirements of different services			
	5.3.b. The virtualization solution must have CPU hot add and memory hot add for VMs to ensure service continuity			
	5.3.c. The proposed virtualization solution must support CPU			

	overcommitment which allows CPU resources to be assigned to VMs on demand			
	5.3.d. The proposed virtualization solution should allow users to modify VM specifications to meet service requirements. The VM specifications include the numbers of CPUs, NICs, and disks, and memory size			
	5.3.e. The virtualization solution must have VM Group Management which allows different types of VMs are logically divided by folders for the group management			
	5.3.f. The virtualization solution must have VM lifecycle management operations, including creating, deleting, starting, stopping, restarting, suspending, resuming, taking snapshots of, and performing fault recovery of VMs			
	5.3.g. The virtualization solution must be capable of running VMs to be migrated among hosts that use the same shared storage without service interruption			
	5.3.h. The virtualization solution must have Dynamic Resource Scheduling which uses the intelligent load balancing scheduling algorithm and dynamic power management, periodically checks the load on various physical hosts in a cluster and migrates VMs to achieve load balancing in the cluster			
	5.3.i. The virtualization solution must have a feature that allows VMs to be added to specified rules which determine whether the VMs can run on or migrate to specified hosts			
5.4. Replication Features	5.4.a. The storage must include Point in Time Snapshots copy services function			
	5.4.b. The storage must support synchronous replication and asynchronous replication.			

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	5.4.c. The storage must support up to 3 Sites Replication and High Availability which enable servers at each data center to access data concurrently, with automated switch-over in case of failure			
	5.4.d. The port for replication on the recovery site must be SAN / FC ports. Replication on the recovery site will pass thru DWDM.			
	5.4.e. The virtualization platform must include replication features that supports active-passive, geo-redundant, metro, and HA Solution			
	5.4.f. Host-based replication must support synchronous replication and asynchronous replication			
5.5. Storage Advanced Features	5.5.a. The storage must include Data Reduction via thin provisioning, unmap, compression and deduplication			
	5.5.b. Must be able to over-provision applications in order to maximize available capacity			
	5.5.c. Must include software for instant copy/snapshot and must be able to create copies of data within the storage system			
	5.5.d. Instant backup copy feature must include full source data backup and the capability to copy only the changes made from the source volume to the target volume			
	5.5.e. Instant copy feature must also have the capability to directly restore to the source volume from the backup copy volume			
	5.5.f. Must be able to perform instant copy function on the source volume regardless of the data use whether online or offline			
6. AVAILABILITY				
6.1. No Single Point of Failure / System-Level Availability	6.1.a. The proposed solution must have a replication for computing hosts and all-flash storage			
	6.1.b. The proposed solution must provide the asynchronous replication			

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	between production and disaster recovery site			
6.2. Data Protection	6.2.a. The proposed storage must be resilient to manage dual disk failure without data loss and minimal performance impact			
6.3. Hot Spares	6.3.a. The proposed storage must be able to provide automated monitoring of disk drive health and be able to initiate a proactive background drive rebuild on failing drives			
	6.3.b. The proposed storage must be able to provide hot spares for the offered number of disk drives			
6.4. Non-Disruptive Upgrades	6.4.a. The proposed solution must support non-disruptive firmware upgrades. Any controller can be upgraded and restarted without interrupting the link or impacting the host			
6.5. Continuous Roadmap	6.5.a. 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.			
7. WARRANTY AND SUPPORT				
7.1. Warranty	7.1.a. The proposed solution includes three (3) years 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.			
	7.1.b. The warranty must include 24/7 access to software and hardware support or specialists for three (3) years. LANDBANK service level agreement (SLA) on incident and problem management will be observed.			
	7.1.c. The warranty must cover software and hardware services on a 24/7 basis with 4-hour onsite support for critical incidents for three (3) years.			
	7.1.d. The warranty solution must			

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	include proactive monitoring, embedded hardware diagnostics and automated service requests for three (3) years.		
	7.1.e. The warranty must include critical software updates and bug fixes for three (3) years.		
	7.1.f. The warranty must include 24/7 remote fault monitoring, accelerated response times and patch deployment services for three (3) years.		
	7.1.g. 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.		
	7.1.h. 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		
7.2. Support	7.2.a. The vendor/bidder must provide a web-based, searchable knowledge base of common problems and solutions.		
	7.2.b. The vendor/bidder shall install the latest available and compatible software versions in the proposed solution		
	7.2.c. The vendor/bidder shall create a baseline of all configuration and performance metrics.		
	7.2.d. The winning vendor must provide remote and onsite support services to the following: • preventive maintenance (ad hoc) • power supply maintenance • inventory management support • hardware installation and reconfiguration services • performance optimization • standby and scheduled services		

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	• system performance and health check • annual disaster recovery drills • other technical support services Man days for onsite support for at least twenty (20) days for three (3) years and part of the support and maintenance agreement			
	7.2.e. Must include quarterly preventive maintenance and health check for three (3) years as part of the maintenance agreement.			
	7.2.f. 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).			
	7.2.g. 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.			
	7.2.h. 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.			
	7.2.i. 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.			
8. TRAINING				
8.1. Trainings, Workshops/skills transfer/tech updates/industry best practices	8.1.a. Proposed solution skills transfer with industry best practices for a minimum of three (3) training days for at least six (6) DCMD personnel within one (1) year.			

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		8.1.b. The vendor/bidder will include a preliminary training plan on the training courses to be carried out including the following: - Course Title and Description - Learning Objectives - Class Composition - Course Duration - Training Sequence			
		8.1.c. The vendor/bidder will provide for the necessary training logistics and paraphernalia for the participants' needs with no additional cost to the Bank.			
		8.1.d. 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			
		8.1.e. The vendor/bidder will issue certificates or proof of training for the participants			
8.2. Technology Updates		8.2.a. The vendor/bidder will conduct workshops/skills transfer/tech updates/industry best practices on proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) at least once a year for the active lifetime of the warranty			
		8.2.b. Must include an Executive Briefing Conference that provides an overview of the manufacturer's latest and future technologies, products, and solutions that is appropriate to the specific needs and interests of the Bank.			
9. SERVICES					
9.1. Basic Delivery Services		9.1.a. Proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) includes services such as delivery to site, setup, installation, and configuration of all hardware and software components			
		9.1.b. Setup, installation and configuration activities must also			

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	include joint inventory with LANDBANK personnel, of all hardware and software components		
	9.1.c. Services must include implementation of the Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) technology functionalities specified in this document and features that are inherent to the solution		
	9.1.d. Services must include cabling and configuration of existing top-of-rack and management switches that will be connected to the proposed servers.		
	9.1.e. Services include installation, setup, configuration and customization of the Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) management system		
9.2. Skills Transfer	9.2.a. Must provide skills transfer on the operations of the configured Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) for at least ten (10) DCMD personnel within one (1) day upon completion and setup of the proposed solution; LANDBANK IT personnel must be able to apply the new knowledge and skills on the solution		
9.3. Product Offering	9.3.a. Proposed Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) is brand new and using the latest stable available model / version		
	9.3.b. The proposed solution model must be the latest product, starting from the date of the pre-bid conference for this requirement. The hardware and software model, product line, version, or release should be the latest product starting from the date of the pre-bid conference for this		

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	requirement			
	9.3.c. The hardware components' model, product line, and or version, including the associated software, in the proposed solution, should still have available support and/or warranty for, at least, three (3) years, starting from the delivery date indicated in this document			
	9.3.d. The proposed model/product must be verifiable via published public documents or thru the product's website			
	9.3.e. The proposed solution 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			
	9.3.f. For cases that the proposed solution and its related hardware and software components' product line falls into the EOL or EOS life cycle in the next four years, the proposed solution 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 solution system and its related hardware and software components', or better, implemented without additional cost to the Bank			
9.4. Delivery	9.4.a. Delivery and setup of the proposed Storage System for the ingestion of ESOA system with 200TB usable capacity (100Tb each site), the hardware, software and related components, within ninety (90) calendar days to the installation site upon receipt of the Notice to Proceed (NTP)			

10. QUALIFICATION AND DOCUMENTARY REQUIREMENTS				
	QUALIFICATION REQUIREMENTS	DOCUMENTARY REQUIREMENTS		
10.1. Qualifications	10.1.a. Vendor must be a certified	Proof or documentation in the		

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and Documentary Requirements	partner or reseller of the proposed solution	form of Manufacturer's Certificate issued by the Manufacturer			
	10.1.b. Vendor must be able to provide first level support for the proposed solution	Curriculum vitae of at least one (1) technical personnel			
	10.1.c. The project must have two (2) on-site project managers. One (1) on-site Project Manager from the bidder and one (1) on-site Project Manager from the vendor who will manage and oversee the implementation of the project. The PM must be directly employed with the company for at least six (6) months prior to submission of the bid.	Curriculum vitae with detailed experience and trainings of each project manager			
	10.1.d. Prior to submission of bidding proposal, the vendor must coordinate with LANDBANK-DCMD to conduct a site survey at Data Center Head Office and DR site 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.	Non-disclosure Agreement (NDA) signed by the vendor/bidder's authorized representative must be submitted two (2) calendar days prior to the conduct of site inspection. Certificate of Inspection will be issued by DCMD Head for the vendors/bidders who will conduct site inspection which shall be form part of the bid proposal.			

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	The site inspection will be conducted at least three (3) calendar days before opening of bids from Monday to Friday 9:00am-5pm. Contact persons are Jane Ramirez and Arnhel Ballocanag with email addresses jramirez@landbank.com and amballocanag@mail.landbank.com. They can be contacted thru phone number 8-5220000 local 7763.				
	10.1.e Principal/Partner must have completed at least two (2) similar system solution in the Philippines for the last five (5) years.	List of two (2) 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.			
11. OPERATIONAL REQUIREMENTS					
11.1. Requirements	11.1.a. 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 any parties				
	11.1.b. 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				

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	within twenty-four (24) hours from the vendor/bidder's discovery, for appropriate action		
	11.1.c. 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		
	11.1.d. The vendor/bidder certifies that necessary operational requirements is part of the bidding proposal and will not entail additional cost to the Bank		
	11.1.e. The vendor/bidder certifies that necessary operational requirements is sufficient enough to enable the operation of Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site), without major modifications on the sites' structural design		
	11.1.f. The vendor/bidder certifies that necessary operational requirements modifications at least follow the Bank's existing site and structural design		
	11.1.g. The vendor/bidder will provide for the required electrical supply of the Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) which includes cables and necessary wiring to the UPS and provision for circuit switches, breakers		
11.2. Deployment	11.2.a. The vendor/bidder must be able to determine the appropriate product for LANDBANK's storage system requirements, including those specified in this document. The		

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	vendor/bidder will size the necessary prerequisites, including storage hardware peripherals to be able to implement Storage System Solution for the ingestion of ESOA in IDRARS with 200TB usable capacity (100Tb each site) requirement			
	11.2.b. The vendor/bidder will provide for all storage cables that are compatible to the existing servers and host adapter protocols			
	11.2.c. The vendor/bidder will also include spare storage cable provisions for future integration activities.			
12. OTHER PROVISIONS				
12.1. These additional provisions are regulatory requirements	12.1.a. Contract Agreement between LANDBANK and the vendor/bidder must include access of LANDBANK to the public financial information of the vendor/bidder			
	12.1.b. The vendor/bidder must include a disaster recovery plan to support LANDBANK for the following conditions: i. in the event that the LANDBANK is in disaster mode ii. in the event that the vendor/bidder is in disaster mode			
	12.1.c. 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]			
12.2. Performance Evaluation	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) 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			
12.3. Pre-Termination/Termination of Contract	Pre-Termination/Termination of Contract shall be governed by the Guidelines on Termination of Contract per Annex "I" of the 2016 Revised Implementing Rules and Regulations. In addition to the grounds under the said Guidelines for Contract Termination, Unsatisfactory Performance by the service provider within the contract duration shall likewise be ground for Pre-Termination/Termination of contract.			
12.4 Liquidated Damages	If the winning bidder fails to delivery any or all of the goods and/or services within the period/s specified in this Contract, the Bank shall, without prejudice to its other remedies under this Contract and under the Applicable Law, deduct from the contract price, as liquidated damages, a sum equivalent to one-tenth of one percent (0.001) of the price of the unperformed portion of the goods and/or services for each day of delay based on the approved contract. LANDBANK need not prove that it has incurred actual damages to be entitled to liquidated damages. Such amount shall be deducted from any money due or which may become due to Supplier. In case the total sum of liquidated damages reached ten percent (10%) of the total contract price, LANDBANK may rescind the contract and impose appropriate sanctions over and above the liquidated damages to be paid.			
13. PAYMENT MILESTONE				
13.1. Terms of Payment	13.1.a. Payment shall be subject to LANDBANK accounting and auditing rules. • 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, and migration activities and upon issuance of certificate of final acceptance Pursuant to Malacañang Executive Order No. 170 (Re: Adoption of Digital Payments for Government Disbursements and Collections) issued on 12 May 2022, directing all government agencies to utilize safe and efficient digital disbursement in the payment of goods, services and other disbursements, all payments for this Contract shall be through direct credit to the supplier's deposit account with LANDBANK. Thus, the supplier shall maintain a deposit account with any LANDBANK Branch where the proceeds of its billings under this Contract shall be credited. The supplier shall be paid within 60 calendar days after submission of sales invoice or claim and complete documentary requirements. The supplier must submit updated Tax Clearance in accordance with Malacañang EO No. 398, series of 2005 and BIR Regulations No. 17-2024 upon payment process together with the sales invoice or claim.			
14. DOCUMENTATION				
14.1. Deliverables Documentation	14.1.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—this documentation will serve as additional inputs during succeeding health checks, problem determination and issue resolution.			
	14.1.b. The vendor/bidder must provide documentation on every			

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	deliverable specified in this document to record completion			
	14.1.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: 1. User Manuals 2. Technical / Reference Manuals 3. System / Operation Manuals 4. Troubleshooting and/or Installation Guides			
14.2. Media and Format	14.2.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			
	14.2.b. All software necessary in the delivery and fulfillment of this solution and implementation must be provided with the applicable installation media			
14.3. Ownership	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			
CONTACT PERSON MR. JONES J. BALLESTEROS Head DATA CENTER MANAGEMENT DEPARTMENT LANDBANK Plaza Building, 1598 M.H. Del Pilar corner Dr. J. Quintos Streets, Malate, Manila Telephone Number: 8405-7763 Email Address: jjballesteros@landbank.com				
END of Technical Specifications				

Noted/Approved by:


JONES J. BALLESTEROS
AVP, DCMD 89