EVALUATION REPORT
(As Per Rule 35 of PP Rules, 2004)

1.	Name of Procuring Agency:	HQ NADRA Islamabad
2.	Method of Procurement:	Single Stage (02) Envelope Methods
3.	Title of Procurement:	Consolidation and Upgradation of Obsolete Blade Servers and Storage.
4.	Tender Inquiry No.:	NADRA-HQ-RFB/143-2022
5.	PPRA Ref. No. (TSE):	TS488705E
6.	Date & Time of Bid Closing:	29th September, 2022 At 11:00 hrs.
7.	Date & Time of Bid Opening:	29th September, 2022 At 11:30 hrs.
8.	No of Bids Received:	10xBids
9.	Criteria for Bid Evaluation:	As per Eligibility & Technical Evaluation Criteria Mentioned in Tender Documents
10.	Details of Bid(s) Evaluation:	As under: -

Name of Bidder	Marks		Evaluated Cost	Rule/Regulation/SBD*/Policy/ Basis for Rejection / Acceptance as per Rule 35 of PP Rules, 2004.
	Technical (If applicable)	Financial (If applicable)		
Lot-1 (Consolidated Blade Chassis)				Bids of Ten firms i.e. M/s Premier Systems, M/s DWP Technologies, M/s JBS (Pvt) Ltd, M/s Tech Avenue, M/s Techaccess, M/s Kokusai Computers, M/s Relacom Services, M/s IBL Unisys, M/s App in Snap, M/s New Horizon were received for Lot-1, Lot-2 and Lot-3 and were found responsive by the tender opening board. As per technical evaluation report bid of M/s Kokusai Computers was technically not qualified for Lot-2 and all other bids were technically qualified. Financial bids of the technically qualified firms were opened on 01st December,2023. Financial bid of M/s JBS (Pvt) Ltd was found non responsive due to conditional bid and bid validity was also less than 120 days. As per financial evaluation M/s Kokusai Computers for Lot-1, M/s App in Snap for Lot-2 and M/s Tech Avenue for Lot-3 were found most Advantageous bidders. Technical Evaluation Report is attached (Flag-A)
M/s Premier Systems	Qualified	Only Technical qualification was required	Rs. 435,564,421/-	
M/s Kokusai Computers	Qualified		**Rs. 398,537,541/-**	
M/s JBS (Pvt) Ltd.	Qualified		Non-Responsive	
Lot-2 (Storage System)				
M/s Premier Systems	Qualified	Only Technical qualification was required	Rs. 181,732,809/-	
M/s DWP Technologies	Qualified		Rs. 159,328,553/-	
M/s IBL Unisys	Qualified		Rs. 168,035,365/-	
M/s App In Snap	Qualified		**Rs. 86,074,946/-**	
M/s New Horizon	Qualified		Rs. 90,097,722/-	
M/s Kokusai Computers	Technically Not Qualified			
Lot-3 (VMware Hypervisor)				
M/s Tech Avenue	Qualified	Only Technical qualification was required	**Rs. 125,327,400/-**	
M/s Techaccess	Qualified		Rs. 147,734,548/-	
M/s Relacom Services	Qualified		Rs. 147,392,627/-	
M/s App In Snap	Qualified		Rs. 142,212,132/-	
M/s New Horizon	Qualified		Rs. 142,717,502/-	
M/s JBS (Pvt) Ltd.	Qualified		Non-Responsive	

Lowest Evaluated Bidders: M/s Kokusai Computers for Lot-1, M/s App In Snap for Lot-2, M/s Tech Avenue for Lot-3, Any other additional / supporting information, the procuring agency may like to share. Nil

Naveed A. Channa
Head of Department
NADRA Procurement
Dated 18th January,2023

Technical Evaluation for Procurement of Blade Server, Storage and virtualization License (Tender# NADRA HQ/143-2022)

Item	Description of Requirement	Kokusai Computers	JBS	Premier
		HP synergy 12000 synergy 480 Gen10	HP synergy 12000 synergy 480 Gen10	Dell Poweredge Power mx7000
Solution requirement	Solution should support API to integrate into popular management tools such as Microsoft Systems Center, VMWare vCenter, **Windows Admin Center** and into open source automation for DevOps tools such as Ansible, Chef, Docker and OpenStack.			
	Solution should support software defined templates to quickly make changes to the infrastructure. Template should include server BIOS, firmware, boot order, RAID, storage configs and network config of the infrastructure required for workload			
Blade Chassis	Solution to house the required number of blade servers in smallest number of enclosures.			
	Should support full height and half height blades in the same enclosure, occupying a max of 10U rack height			
	Must support at least six network interconnect supporting Ethernet, FC and FCoE connectivity with redundancy for HA			
	Chassis should support half-height and full-height servers running Intel Xeon processors			
	Should support built-in management software or appliance in redundancy with separate management network from production network			
	Should support technology built-in to every chassis for Auto-Discovery of resources			
	Chassis should provide display port and USB port to connect Laptop/Monitor locally			
	Should support linking multiple enclosures (minimum **10 enclosures**) together to form single management ring to reduce complexity and provide single console of management for connected enclosures			
Interconnects support	Should support housing of FCoE, Ethernet and FC interconnect fabrics offering redundancy as a feature. Solution should support network switch with **25Gb/50Gbe downlinks** or 16 x 25Gbe virtual connection to server as per solution quoted and 100Gb uplink to DC switch			
	Redundant Interconnect modules shall be integrated within the chassis such that uplinks from the chassis can be directly connected to core LAN/SAN switches			
Converged interconnect	Complete solution Should provide at least six QSFP28 for external uplink to choose Ethernet and FC uplinks as needed OR Complete Solution Should provide the four QSFP28 for external uplinks for Ethernet switches And four QSFP28 for external uplinks for FC switches			
	Should support aggregation of multiple enclosures to consolidate data center network connections, reduce hardware and to scale network bandwidth across multiple enclosures.			
	When multiple chassis aggregated, switching latency between enclosures should not exceed 1.0 micro second for Ethernet			
	Should support Multi-module link aggregation (MLAG) for resiliency against interconnect failure			
	Complete solution must provide 16 x 10G SFP+ uplinks with redundancy to Core Network Switches with 15m LC cables or breakout cables. Solution can use breakout cables if needed. Complete solution must provide 6 x 32GB SFP+ uplinks with redundancy to Core SAN Switches with 15m LC cables or breakout cables. Solution can use breakout cables if needed.	Comply	Comply	Comply
Power Supply	The enclosure should be populated fully with power supplies of the highest capacity available with the vendor. Power supplies should support N+N as well as N+1 redundancy configuration, where N is greater than 1			
Cooling	Each blade enclosure should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with technologies for improved power consumption and acoustics			
System Software	Management software's have to be from the OEM.			
Chassis management capabilities	Solution should support management software/appliances within an enclosure or on multiple connected enclosures with failover and high-availability			
	Should support auto-discovery of Compute, Memory, Storage and Fabrics within an enclosure or on multiple connected enclosures.			
	Should support activity, Health and Power LEDs for immediate status			
	Should support software-defined intelligence for configuring profiles to provision compute and fabrics			
	Should offer collaborative user interface which support logical resources to physical resources mapping, Smart Search, Activity Log, HTML5 mobile access, and Customizable Dashboard			
	Should provide a dedicated minimum 1GbE or higher management network for multi-enclosure communications, separate from data plane			
	Should support reporting capabilities for 1) asset and inventory information for the devices in the enclosures 2) thermal and power information, including real-time actual power usage per server and per enclosure Reports should be exportable to csv or Microsoft Excel format 3) Firmware Compliance Dashboard & Report			
Integration with virtualization and open source software	Should support integration with popular virtualization offerings VMware vCenter, Microsoft system Center, and Windows Admin Center			
	Should support integration with open source automation and DevOps tools such as Ansible, Chef, Docker, and OpenStack			

Item	Description of Requirement	Kokusa Computers	IBS	Premier
Other	OEM must have local support (OEM paid staff / via partner/distributor) & Registered office from last 5 years in Pakistan. OEM must have warehouse in Pakistan and must have minimum 02 deployments of the same quoted hardware (reference document must attached). Certified Training for Four personnel from OEM (not online). Bidder must be Tier-1/Gold Partner of OEM and certificate must be submitted			
Support SLA	5 years 24 x 7 support			

Compute Nodes:	QTY= 42	Kokusa Computers	IBS	Premier
Item	Description of Requirement	HP synergy 12000 synergy 480 Gen10	HP synergy 12000 synergy 480 Gen10	Dell Poweredge Power mx7000
CPU	2 x Xeon-Platinum 8362 2.8GHz 32-core 265W or Latest			
Memory	Should support a minimum of 32 DIMM slots 1TB RAM			
Memory Protection	Should support the following memory protection features. - Advanced ECC with multi-bit error protection - Online Spare with Advanced ECC support - Mirrored Memory with Advanced ECC support			
Hard disk drive	2 x 480GB SATA 6G Mixed Use SFF			
Storage Controller	12Gb/s SAS RAID Controller with RAID 0/1/1+0			
Networking features	1 x Dual Port 25GbE or 25GbE/50GbE Converged Network Adapter			
Interface	Minimum of 1* internal USB 3.0 port ,1* internal SDHC card slot and 1* external USB 3.0 port			
Industry Standard Compliance	ACPI 6.3 Compliant, PCIe 4.0 Compliant, WOL Support, PXE Support, USB 3.0 Compliant, Energy Star, SMBIOS 3.2, Redfish API, IPMI 2.0, TPM 1.20 and 2.0 Support, Minimum SNMP v2, TLS 1.2, DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP), Active Directory v1.0, ASHRAE A3/A4, UEFI (Unified Extensible Firmware Interface Forum) 2.6	Comply	Comply	Comply
OS Support	Microsoft Windows Server, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), Vmware, Oracle VM			
Server Management	Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view.			
	The Dashboard minimum should display a health summary of the following: • Server Profiles, • Server Hardware, • Appliance alerts			
	The Systems Management software should provide Role-based access control			
	The Server Management Software should be of the same brand as of the server supplier.			
	Management software should support integration with popular virtualization platform management software like Vmware vCenter & vRealize Operations, and Microsoft System Center & Admin Center			
	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.			
	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.			
Support SLA	5 years 24x7			
Other Comliance Terms	Participating Vendor must be authorize partner of OEM (as per each LOT) and certificate must be submitted. Spare parts depot must have in Islamabad or in Karachi (Where applicable). Vendor must have 1 Technical certified Engineer for LOT-1 & LOT-2 (quoted hardware) certificate must be submitted			
Overall Compliance		Comply	Comply	Comply

Note: IBL-Unisys,DWP, New Horizon, Appinsnap did not participated in this LOT

President: Mr Muhammad Javeed Sajid (Deputy Director (Networks Dte))   *[signature]* 16/11/2022.

Member: Mr. Muhammad waseem Ali (Deputy Director (Networks Dte))   *[signature] Mr waseem*

Member: Mr. Faisal Abdullah (Assistant Director (Technology Dte))

Member: Mr. Hafiz Abid Sharif (Assitant Director (HOD Dte))

Technical Evaluation for Procurement of Blade Server, Storage and virtualization License (Tender# NADRA HQ/143-2022)

S#	Feature	Details	Kokusai Computers HPE Allertra 6090	IBL-Unisys Dell EMC 5200T	App in Snap Daradoo 6000v6	DWP Dell EMC 5200T	New Horizen Daradoo 6000v6	Premier Solution Dell EMC 5200T
		Storage System (QTY: 1)						
1	Storage Type	SAN Storage Array Flash modules (NVME based) or NVME disk based storage system)	Comply	Comply	Comply	Comply	Comply	Comply
2	Controller	Dual Active/Active controllers with minimum 10 Cores per processor, dual Socket (per controller) Intel Xeon processor or equivalent or higher	Not Comply	Comply	Comply	Comply	Comply	Comply
3	Protocols	SNMPv3,SMTP,VMware Virtual Volumes (vVols) 2.0,vStorage APIs for Array Integration (VAAI),vStorage APIs for Storage Awareness (VASA),RSVD for Microsoft Hyper-V,TLS 1.2 support by default,Native SHA2 certification, Block Protocols: iSCSI, Fibre Channel (FCP SCSI-3),For Provisioning, management, cloning (Virtual Storage Integrator),Must have support for VMware Site Recovery Manager,Must have support for Container Storage Interface Plugin	Comply	Comply	Comply	Comply	Comply	Comply
4	Cache	Minimum 1024 GB Cache for proposed storage system write cache must persistence during controller failure to prevent performance degradation,Storage system must have future support for Storage class memory (min 375 GB or min 750 GB)	Comply	Comply	Comply	Comply	Comply	Comply
5	Usable Capacity	Usable Capacity 400TB Useable capacity without compression using NVMe based Enterprise drives (not more than 7.8TB approx. capacity) or flash module (not more than ~10TB approx. capacity), with RAID5 (4+1) or (8+1). Only physical (useable) capacity will be considered. On above useable capacity effective Capacity must be guaranteed with minimum ratio 2:1 400TB Useable capacity without compression using NVMe based Enterprise drives (not more than 7.8TB approx. capacity) or flash module (not more than ~10TB approx. capacity), with RAID5 (4+1 or 8+1) or RAID6 (6+2 or 8+2). Only physical (useable) capacity will be considered. On above useable capacity effective Capacity must be guaranteed with minimum ratio 2:1, Performance IOP 400K must be gureented with 70/30 read write IOPs	Comply	Comply	Comply	Comply	Comply	Comply
6	Scalability & Upgrade	It must be a single tightly clustered singly managed system rather than aggregate of multiple separate smaller boxes. The same should be upgradeable by adding controllers in cluster / changing the controllers can support upto min 1PB of storage. For any future new storage generation it should be data in place upgradeable.Different generation of the storage can be accommodated in one cluster of storage. Storage Operating system version upgrade should be Guaranteed online without any downtime	Comply	Comply	Comply [2]	Comply	Comply [2]	Comply
7	Hot-Spare (Flash module, SSD)	Must include minimum one hot spare disk/flash module for each type.Array must have the optimal quantity of global hot spare disks/flash modules as recommended by the manufacturer (in addition to the usable capacity)	Comply	Comply	Comply	Comply	Comply	Comply
8	Host Connectivity Ports & Protocols	Proposed storage system must have minimum, 4 x 16Gbps FC ports per controller,1x10Gb iscsi port per controller	Comply	Comply	Comply	Comply	Comply	Comply

#	Feature	Description						
9	Disk Drive OR Flash Module Support	Offered Storage shall support enterprise SSD 3.8TB, 7.6TB NVME based enterprise drives or higher OR Offered Storage shall support Flash Module and 10TB or eqv or higher	Comply	Comply	Comply	Comply	Comply	Comply
10	Raid Level Support	Supported pools and traditional RAID level should be 6, 5 or dynamic or eqv to these	Not Comply	Comply	Comply	Comply	Comply	Comply
11	Architecture	Offered storage system should not have any single point of failure at controller, management console, power supplies, data paths etc.	Comply	Comply	Comply	Comply	Comply	Comply
12	Capacity Optimization	Proposed storage should supply with built-in capacity optimization feature like inline Compression and de-duplication.	Comply	Comply	Comply	Comply	Comply	Comply
13	Thin Provisioning & compression	Offered storage array should be supplied with Thin provisioning Capability.	Comply	Comply	Comply	Comply	Comply	Comply
		Must have Deduplication and compression and must be inline with no performance impact.	Comply	Comply	Comply	Comply	Comply	Comply
14	Volume replication	Offered storage should have volume replication	Comply	Comply	Comply	Comply	Comply	Comply
15	Mounting Kit	Universal Rack Mounting Kit	Comply	Comply	Comply	Comply	Comply	Comply
16	Volume Copy	Volume clone, and snapshots capabilities must be supplied	Comply	Comply	Comply	Comply	Comply	Comply
17	Management Software	Easy to use GUI based and web enabled administration interface for configuration, managing, administration and associated functionalities including deployment, automation, provisioning, and protection and monitoring management. Solution Should offer real time performance monitoring tools giving information on volume throughput, I/O rate and latency etc.	Comply	Comply	Comply	Comply	Comply	Comply
18	Data Migration	The Storage System should have the capability to support Non-Disruptive Data migration across Volumes with the same storage box.	Comply	Comply	Comply	Comply	Comply	Comply
19	Operating System Support	Proposed storage must support leading operating systems and Hypervisors including VMWare, Hyper-V, Red Hat Linux, Suse Linux, Solaris, AIX and HP-UX,	Comply	Comply	Comply	Comply	Comply	Comply
20	Warranty & Support	Proposed storage system should be quoted with minimum 5 years (24x7) Hardware and Software warranty and support, back to back OEM support, with	Comply	Comply	Comply	Comply	Comply	Comply
21	Others	Proactive system health monitoring, must all capacity upgrade without any additional software license. Vendor must be tier-1/Gold partner of OEM and certificate must be submitted.	Comply	Comply	Comply	Comply	Comply	Comply
		OEM must have local support (OEM paid staff / via partner/distributor) & Registered office from last 5 years in Pakistan. OEM must have warehouse in Pakistan and must have minimum 02 deployments of the same quoted hardware (reference document must attached). Certified Training for Four personnel from OEM (not online). Bidder must be Tier-1/Gold Partner of OEM and certificate must be submitted	Comply	Comply	Comply	Comply	Comply	Comply
	Overall Compliance		Not Comply	Comply	Comply	Comply	Comply	Comply

[1] https://blocksandfiles.com/2021/05/05/alletra_details/

[2] As per OEM response DME software is part of our solution(In submitted BOQ of venders it was not) which can serve "Different generation of the storage can be accommodated in one cluster of storage"

President: Mr Muhammad Javeed Sajid (Deputy Director (Networks Dte))

Member: Mr. Muhammad waseem Ali (Deputy Director (Networks Dte))   16/11/2022

Member: Mr. Faisal Abdullah (Assistant Director (Technology Dte))

Member: Mr. Hafiz Abid Sharif (Assitant Director (HOD Dte)

Technical Evaluation for Procurement of Blade Server, Storage and virtualization License (Tender# NADRA HQ/143-2022)

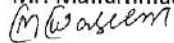|	VMware	QTY	Techaccess	JBS	RealCom	New Horizon	AppinSnap	TechAvenue
VMware Hypervisor	VMware Vsphere Enterprise Plus, ESXI 7.0 or higher with software support and maintenance for 5 years Bidder must be authorize partner of OEM	84	Comply	Comply	Comply	Comply	Comply	Comply
VCenter	1 x Vcenter Enterprise license with software support for 5 years for software upgrade and patching.	1	Comply	Comply	Comply	Comply	Comply	Comply
Over All Compliance			Comply	Comply	Comply	Comply	Comply	Comply

President: Mr Muhammad Javeed Sajid (Deputy Director (Networks Dte))   16/11/2022

Member: Mr. Muhammad waseem Ali (Deputy Director (Networks Dte))

Member: Mr. Faisal Abdullah (Assistant Director (Technology Dte))

Member: Mr. Hafiz Abid Sharif (Assistant Director (HOD Dte)