



Leaving No One Behind

NATIONAL HEALTH INSURANCE MANAGEMENT AUTHORITY

TO ALL PROSPECTIVE BIDDERS

ADDENDUM NO. 2

TENDER FOR DESIGN, SUPPLY, AND INSTALLATION OF AN ENGINEERED INFRASTRUCTURE AT PRODUCTION AND DISASTER RECOVERY SITES FOR THE NATIONAL HEALTH INSURANCE MANAGEMENT AUTHORITY-NHI/ONB/S/3/2021

Reference is made to the above-mentioned tender.

Kindly be informed that the National Health Insurance Management Authority (NHIMA) has made the following amendments to the Solicitation Document:

- i. **Instructions to Bidders ITB 11.1. (f) of the Bid Data Sheet:** additional information has been provided to all bidders to include the following;
 - a. The bidder should be a partner with Oracle, and
 - b. Manufacturer's authorization letter if bidder is not a manufacturer.
- ii. **The following amendments have been made to the Technical Specifications:**

Table 1: Updated Technical Specifications

<p>An Engineered Infrastructure at Production and at Disaster Recovery sites for eNHIMA</p>	<p>Exadata Database Machine is the most versatile database platform. The Exadata X9M-2 Database Machine uses powerful database servers, each with two 32-core x86 processors totaling 128 Cores, storage 18 TB and 1 TB of memory (expandable up to 2 TB). This Exadata solution shall have scale-out, intelligent storage servers available in High Capacity (HC).</p> <ul style="list-style-type: none"> • HC Storage Servers shall have four NVMe PCI Flash cards each with 6.4 TB (raw) Exadata Smart Flash Cache and twelve 18 TB 7,200 RPM disks. • Exadata X9M HC Storage includes persistent memory, further enhancing performance. Each server shall be populated with twelve 128 GB Intel® Optane™ Persistent Memory modules as a new caching tier between DRAM and flash.
	<p>No Backup Tape Drive required at Production</p>
	<p>Complete virtualization software suite as per of operating system</p>
	<p>Cabling and other peripherals for a fully functional solution</p>
	<p>The Supplier shall supply the equipment in accordance with the terms of reference or specifications as per schedule above or better. It shall be a must that these are supplied as original OEM product from the manufacturers of these renowned brands or registered with accreditation from renowned manufacturers.</p>
	<p>The power supply requirements shall be 100-260 VAC (auto-range), with 50/60 Hz. The server hardware equipment shall have hot plug redundant power modules.</p>

	<p>The system shall be able to provide for 99.9% availability over a period of 12 months.</p>
	<p>The server hardware equipment shall work normally, i.e. meet its appropriate technical specifications, under both operational and storage conditions. All equipment shall remain operational without damages when subject to the storage conditions presented below. When the operational conditions are re-established, all equipment shall meet its appropriate technical specifications without any adjustment.</p> <p>Operational Conditions</p> <ul style="list-style-type: none"> • Temperature: -5 to +55 degree Celsius • Relative humidity: 0% to 100% (condensing). • 6.2 Storage Conditions • Temperature: -10 to +85 degree Celsius • Relative humidity: 10% to 99% (no condensation).
	<p>The equipment shall be rack mountable to minimize interfaces for protection of personnel and equipment. The use of plug-in replaceable units or modules shall be preferred. Such plug-in devices shall be mechanically secured in their positions to prevent being dislodged by shaking or vibrations.</p>
	<p>NHIMA and the Supplier shall develop an Acceptance Test Procedure which shall be relied upon.</p>

	<p>The Supplier shall supply, together with the equipment, a set of documentation to be used for purposes of operation and maintenance of the server hardware equipment. The documentation shall include O&M Manual and Systems Manual. Furthermore, the supplier shall ensure that the technical documentation and manuals for the actual installation and configuration of the server hardware equipment are provided.</p>
	<p>The Supplier shall provide suitable training for NHIMA technical staff for the proper operation and maintenance of the server hardware equipment. The training package shall include details of the course content to be reviewed and approved by NHIMA. The training shall cover for five (5) technical staff members.</p>
	<p>The server hardware equipment shall have Operations and Maintenance features for configuring the system that are user friendly. The system shall make it easy for NHIMA staff to operate and maintain the system during and after the warranty period.</p>

Table 2: Updated Bills of Material

Item No.	Product Code	DESCRIPTION	QTY	Suppliers Offer
1	7602363	Exadata Database Machine X9M-2: model family	1	
1.1	7603962	Exadata Database Machine X9M-2 High Capacity (HC) Quarter Rack with 1 TB	1	

		memory and 2 dual 25 G network cards (for factory installation)			
1.2	6445A	Two 3-phase high voltage 24 kVA PDUs with IP44 30 A plugs for EMEA and APAC except Japan and Taiwan (for factory installation)	1		
1.3	7110966	Engineered Systems 1RU filler panel (for factory installation)	31		
1.4	7602538	Replacement part: Oracle Flash Accelerator F640 v3 PCIe card	1		
1.5	7602539	Replacement part: one 18 TB 7200 rpm 3.5-inch SAS-3 HDD with coral bracket	1		
1.6	7602541	Exadata Database Machine X9M-2: Oracle Linux software image for database server (for factory installation)	1		
1.7	7602542	Exadata Database Machine X9M-2: Oracle Linux software image for storage server (for factory installation)	1		
1.8	7118366	Copper splitter cable assembly: 5 meters, QSFP28 to 4 SFP28	4		
1.9	7603661	Oracle Dual Port 100 Gb Ethernet Adapter, Mellanox	4		
1.1	XSR-JUMP-2MC13-N	Jumper Cable Kit: 1 x 2m C13	2		

1.11	B51555	Oracle Exadata Configuration Service (1 rack, up to: 2 clusters, 16 VMs, 4 DB homes)	1		
1.12	B74194	Oracle Standard System Installation Service, Site Audit: Engineered Systems - Group II	1		
1.13	B61304	Oracle Standard System Installation Service, Site Audit: Servers - Group II	1		
1.14	B86101	Oracle Standard Software Installation & Configuration for Systems Service: Oracle Enterprise Manager (OEM, Repository Management Service, WebLogic server, 1 engineered system or 5 assets)	1		
1.15	7600917	Oracle Advanced Support Gateway Server X8-2 (for field installation)	1		
1.17	B72641	Oracle Standard Software Installation & Configuration for Systems Service: Base	1		
2	L68816	Exadata Storage Server Software - Disk Drive Perpetual	36		
2.1	A97168	Software Update License & Service Partner Support	36		

3	7602363	Exadata Database Machine X9M-2: model family	1		
3.1	7603962	Exadata Database Machine X9M-2 High Capacity (HC) Quarter Rack with 1 TB memory and 2 dual 25 G network cards (for factory installation)	1		
3.2	6445A	Two 3-phase high voltage 24 kVA PDUs with IP44 30 A plugs for EMEA and APAC except Japan and Taiwan (for factory installation)	1		
3.3	7110966	Engineered Systems 1RU filler panel (for factory installation)	1		
3.4	7602538	Replacement part: Oracle Flash Accelerator F640 v3 PCIe card	1		
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3.9	7603661	Oracle Dual Port 100 Gb Ethernet Adapter, Mellanox	4		
3.1	XSR-JUMP-2MC13-N	Jumper Cable Kit: 1 x 2m C13	2		
3.11	B51555	Oracle Exadata Configuration Service (1 rack, up to: 2 clusters, 16 VMs, 4 DB homes)	1		
3.12	B74194	Oracle Standard System Installation Service, Site Audit: Engineered Systems - Group II	1		
3.13	B61304	Oracle Standard System Installation Service, Site Audit: Servers - Group II	1		
3.14	B86101	Oracle Standard Software Installation & Configuration for Systems Service: Oracle Enterprise Manager (OEM, Repository Management Service, WebLogic server, 1 engineered system or 5 assets)	1		
4	7120204	Oracle Server X8-2: model family	5		
4.1	7120014	Oracle Server X8-2: 1 RU base chassis with motherboard, eight 2.5-inch drive slots disk cage, 2 PSUs, slide rail kit, and cable management arm	5		

4.2	7600156	1 Intel Xeon Platinum 8260 24-core 2.4 GHz (for factory installation)	10		
4.3	7115197	Short heat sink (for factory installation)	10		
4.4	7115202	One 64 GB DDR4-2666 registered LRDIMM (for factory installation)	40		
4.5	7116456	Processor clip (for factory installation)	10		
4.6	7111107	One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket (for factory installation)	20		
4.7	6331A-N	2.5-inch HDD filler panel (for factory installation)	20		
4.8	7117125	Oracle Storage 12 Gb SAS PCIe RAID HBA, internal: 16 port and 2 GB memory (for factory installation)	5		
4.9	7117386	SAS cables for 1U (for factory installation)	5		
4.1	7118015	Oracle Dual Port 25 Gb Ethernet Adapter, Broadcom (for factory installation)	5		
4.11	7111182	Oracle Quad Port 10GBase-T Adapter (for factory installation)	5		
4.12	7102748	PCIe filler panel (for factory installation)	5		

4.13	7120050	Oracle 1/10 GbE Dual Rate SFP+ Short Range (SR) Transceiver (for factory installation)	20		
4.14	SR-JUMP -2MC13	Power cord: Sun Rack 2 jumper, 2 meters, C14RA plug, C13 connector, 13 A (for factory installation)	10		
4.15	7115464	Two 480 GB M.2 SATA SSDs for 1U (for factory installation)	5		
4.16	B61304	Oracle Standard System Installation Service, Site Audit: Servers - Group II	5		
5	CABLE10800341-Z-N	FC cable: riser, 5 meters, duplex, LC-LC, 50/125	16		
6.2	CABLE10800313-Z-N	StorageTek FC cable: OM2, 10 meters, 50/125, duplex, plenum, LC-LC connectors	16		
7	B58653	Oracle Premier Support for Systems - Field Delivery Partner	1		
8		Oracle Exadata Training for Administrators as follows			
		Exadata Database Machine Administration training at an	5		

		accredited or Oracle certified training Centre.		
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iii. Responses to concerns raised regarding the specifications of the tender

Table 3: Concerns/matters raised and their responses

S/N	Concern/Matter raised	Response
1.	The tender indicates the supply of a SL150. This model is no longer sold in Africa by Oracle.	No longer required addressed by the Addendum.
2.	Are we allowed to quote for an alternative model i.e HP or IBM.	Alternatives not permitted. Only requirements stated in the Solicitation Document and Addendum should be provided.
3.	A tape cannot connect direct to the ODA, should we quote for a media server as well or you have one already	Not required. Addressed by the Addendum.
4.	Do you have a backup software already purchased?	Addressed in the Solicitation Document and Addendum.
5.	Does NHIMA have 10GBE switches to connect ODA-HA to their network?	Yes, infrastructure is in place.
6.	Tender specifies Rack cabinet with 3Phase power. Is it 3Phase or Single Phase in your Datacenters?	3Phase is being utilized.
7.	ODA cannot connect to Tape directly - needs a Media server with SAS HBA connections. Do you have a server, or must it be quoted?	Exadata will be procured as provided in the Addendum.
8.	Do you need a 5-year support contract or just one year renewable every year	Addressed in the Addendum.

9.	For the ODA we can get around basic Oracle partner subscription (600\$)	Addendum shall be issued to show Exadata HW not ODA
10.	NHIMA need Oracle to do Public Sector certification (Public Sector Addendum to the Partner Agreement) takes time.	This is left to the Field Delivery Partner (FDP)
11.	The Tape SL150 is not available anymore. Our HP buddies need to quote are aware of this?	Addressed in the Addendum

In view of the above changes the tender closing date has further been moved to **Wednesday 24th November 2021 at 10:00 hours local time.**

Any further changes will be communicated.



Moses Sakala

Head- Procurement and Supplies Unit

For/Director General

NATIONAL HEALTH INSURANCE MANAGEMENT AUTHORITY