

Date: September 26, 2018

Addendum to the RFP “Supply, Delivery, Installation, configuration, commissioning and maintenance of Servers, Storage, Associated Components, Operating System, Oracle Database & other Software and Licenses in TCO (Total Cost of Ownership) over a 7-year basis for DC and DR” Tender no: 000/BoB/Tender/2018/016 dated September 08, 2018

Section I - Instruction to bidders

C. Preparation of Bids

15. Bid Security

- 15.2 The Bid security shall be valid for 30 (thirty) days beyond the validity of the Bid and shall be in the form of Demand Draft/Cash Warrant issued by the Bank of Bhutan or any other commercial bank in Bhutan.

Amended as

- 15.2 The Bid security shall be valid for 30 (thirty) days beyond the validity of the Bid and shall be in the form of Demand Draft/Cash Warrant issued by the Bank of Bhutan or any other commercial bank in Bhutan **or any correspondent bank acceptable to Bank of Bhutan**

New Additional clause

- 15.7. The bidder shall furnish the bid security in a sealed envelope inside the technical bid and shall be opened only during the opening of the financial bid after the evaluation of the technical bid.

The bidders are required to consider the following regarding the Bills of Quantity.

Annexure A3 – Bills of Quantity

#	Particulars	Detail	DC (QTY - NOS)	DC (QTY - NOS)	Total QTY (DC+DR)	Remarks
1	Server (HW)	Compute Node	15	11	26	Servers for virtualization
2	Storage (HW)	Unified storage	1	1	2	To be used as SAN storage and NAS
3	Tape Library (HW)	Tape backup	1	1	2	Tape library
4	Backup solution (HW+SW)	Enterprise backup software	1	1	2	Backup Virtual Machines as well as filesystem backup from individual server
5	Tape Management Server (HW)	Tape Management Servers	1	1	2	Servers to manage the Tape and SAN Environment
6	Virtual Environment Management Server (HW)	Rack mount Servers	2	2	4	Servers to manage virtual environment (Oracle and VMware environment)
7	16G SAN Switches - 24 Port (HW) *	Fiber connection	2	2	4	Fiber connection between storage and servers
8	10G Ethernet Switch 48 Port (HW) *	Ethernet connection	2	2	4	Ethernet connection for server to server communication and external links
9	10G Ethernet Switch 24 Port (HW) **	Ethernet connection (Management and UAT)	1	1	2	Ethernet connection for UAT and server management
10	v-center with operation manager	Virtualization Manager for VMware Virtualization	1	1	2	VCenter will manage the VMware environment
11	v-sphere (SW)	Virtualization software	18	18	36	vSphere to virtualize the compute nodes on VMware
12	OVM	Virtualization Manager for Oracle Virtualization	1	1	2	OVM to manage the Oracle Virtual environment

#	Particulars	Detail	DC (QTY - NOS)	DC (QTY - NOS)	Total QTY (DC+DR)	Remarks
13	OVS(SW)	Virtualization software	2	2	4	OVS to virtualize the compute nodes on Oracle
14	Windows Server 2016 (SW)	Operating System	12	12	24	Windows operating system
15	Windows Storage Server 2016 (SW)	Storage Operating System (NAS)	2	2	4	Windows operating system for NAS and Mail
16	User Cal License (Bundle of 5)	User call license for windows OS	14	14	28	Mandatory for Windows OS
17	Oracle Solaris (SW)	Operating System	2	2	4	For ATM Switch
18	Oracle Linux (SW)	Operating System	3	3	6	For oracle DB and Oracle Products
19	Oracle 12C (SW)	Database software	2	2	4	CIB (DC) & ATM (DR)
20	Ubuntu / Cent OS	Open source Community Edition	12	12	24	Chharo / New projects
21	Mysql 5.7	Community Edition	12	12	24	Chharo / New projects
*	Ports as per requirement in the solution proposed with 20% ports free for future scalability" on a redundant architecture and the possibility to stack if additional switches are required					
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