



MINISTRY OF ROADS AND TRANSPORT
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Ref: KE-EBK-217539-GO-RFB

28th November, 2025

To: All interested bidders.

RE: SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF VIRTUAL DESKTOP INFRASTRUCTURE SOLUTION, ICT EQUIPMENT ACCOMPANIED WITH RELEVANT ICT SOFTWARE LICENSES UNDER LOT 1 AND LOT 2

LOT 1: SUPPLY, DELIVERY AND INSTALLATION OF VIRTUAL DESKTOP INFRASTRUCTURE SOLUTION (COMPLETE WITH ZERO THIN CLIENTS).

LOT 2: SUPPLY, DELIVERY AND INSTALLATION OF DATA CENTER HARDWARE SOLUTION

ADDENDUM 1.

The following are clarifications sought by the interested bidders and the corrective action undertaken.

Addendum on VDI Tender

S/No	Model Name and number	Bidder to Specify / Query	Amendments / Response
1	Unified storage systems with the following capacity	The organization requires. 1.Usable 29.4PB capacity using a RAID setup with double disk drive failures protection. 2.Each storage aggregate must keep a hot spare	The organization requires. 1.Usable 65TB capacity using a RAID setup with double disk drive failures protection. 2.Each storage aggregate must keep a hot spare disk to protect from downtime due to drive failures.

		disk to protect from downtime due to drive failures. 3.Hot spare drives must not contribute to usable space calculations. Additionally, the proposed storage must have the below: 4. 2.2PB Raw Capacity, 29.4PB effective capacity. 5.All drives on the storage systems must be NVMe SSD Flash media. 6.Minimum 24 Cores 7.At least 512GB Memory total per HA pair 8. Onboard ports: • 2x 25Gb Ethernet: HA and cluster interconnects • 2x 10GBASE-T: Host connectivity • 2x Mezzanine slots for I/O expansion 9. 8x 32Gbs FC Connectivity (Mandatory) 10. 10G SFP+ fiber ports for host connectivity	3.Hot spare drives must not contribute to usable space calculations. 4. Additionally, the proposed storage must have the below: • 122TB Raw Capacity, 65TB Usable. • All drives on the storage systems must be NVMe SSD Flash media. • Minimum 20 Cores -64 bit 2.0 Ghz • At least 128GB Memory • Maximum drive count = 72 drives in a two-node cluster. • 16 GB NVRAM • 8 I/O expansion slots • Must have 2 x 100Gbe cluster interconnects • 8 x 10 GB Base-T • 8 x 32 Gbs FC Connectivity • Software required – Includes Encryption bundle, Hybrid cloud bundle, Data protection Bundle and Security and compliance bundle software features. • 3yrs HW & SW NBD Warranty
2	SAN SWITCH - QTY	Requested 1	To provide Quantity 2 for Redundancy. Each with 8 ports active (32Gbs FC)
3	MAF Requirements LOT 2	Requested for Printers MAF	Printers MAF not required.
	Lot 2: Supply, Delivery and Installation of Data Center Hardware Solution Clarification		

	Servers	10Gb Ethernet SFP+ transceiver (2). Please clarify if sufficient 10Gbe Ports are available on the TOR Switches. Can you also help us if there is spine and leaf architecture. How are the end user connected to this	Currently a 48-port Cisco Catalyst C9300-48U-A switch complete with a 250 VAC, 13A C14-C15 cabinet jumper power cord and all required software licenses. The supply includes Cisco SMARTNET 24x7x4 support.
	B) STORAGE DEVICE - QTY 1	Usable 29.4PB capacity using a RAID setup with double disk drive failures protection. Please clarify the useable capacity that is required in TB 2.2PB Raw Capacity, 29.4PB effective capacity. Please clarify the effective capacity that is required in TB Storage software provided should include snapshots, cloning, snap restore, and onsite backup ability (on the storage itself). Please help us with the Model of NetApp FAS that the secondary site. What is the capacity that is available at the secondary sites. How much capacity are we replicating from Is it a must that the storage appliance runs on ONTAP One Software or we may propose another software?	We have amended to 65TB Usable capacity on NVME SED flash drives. Proposals should be based on usable capacity, not effective capacity. We have amended to 65TB Usable capacity on NVME SED flash drives. Proposals should be based on usable capacity, not effective capacity. Currently there is not Secondary site setup ONTAP One Software or equivalent
	List of Goods and Delivery Schedule (Lot1)		
		Microsoft Windows Server 2022 licenses - maximum licensed OSEs (Standard Edition)- Qty 10. The are four servers each with 32 Core but the license Qty mentioned is 10 will the customer provide the licenses required. Are all the 4 servers part of this, if yes then	Kindly quote as is

		we would need total 128 cores. The Standard edition support only 2VM per servers but with VDI Control plane components and Data Component there might be shortage	
		Do you want perpetual licenses or subscription based license, since Citrix has changed their license model to subscription based licensing. They don't have perpetual licenses anymore.	Subscription based licensing (3 years)

NOTE: All other terms and conditions remain the same.



FOR: PRINCIPAL SECRETARY