



GovTech/ACCESS/PMU/2026-27/

September 15, 2026

AMENDMENT No. 2

Subject: **Amendment No. 2 to Request for Bids (RFB)**

Ref: Accelerating Transport and Trade Connectivity in Eastern South Asia – Bhutan Phase 2 Project (ACCESS)- Request for Bids (RFB)- **Supply, Installation, and Commissioning of Equipment – Government Networks Core and Middle-Mile Infrastructure Enhancement** (Reference No: ACCESS/GovTech/GD-1)

The following amendment No.2 is issued to Request for Bids (RFB)- **Supply, Installation, and Commissioning of Equipment – Government Networks Core and Middle-Mile Infrastructure Enhancement** published by GovTech Agency.

Sl. No	Clause Reference	Existing Clause statement	Amended clause statement
1	Section III - Qualification Criteria (ITB 32.1) (d) Specific Experience	a. Lot-1: Value of at least US\$ 1.5 Million or equivalent. The contract will be treated as similar if it includes supply, installation, and commissioning of active network equipment such as highend service-provider-grade routers and switches. The above clause is as per the amendment-01 issued.	The specific requirement clause for Lot-1 is revised as below: a. Lot-1: The bidder shall demonstrate successful completion of contracts involving the supply and implementation of network infrastructure of comparable scope, scale, and complexity to the Goods and Related Services under this Contract, with a minimum aggregate /individual contract value of US\$ 2.5 m.



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			<i>The Bidder shall submit copies of the relevant contracts or purchase orders, together with completion or acceptance certificates, evidence of the Bidder's role and participation, the value of work performed and client contact details sufficient to verify the claimed experience.</i>
2	Section III - Qualification Criteria (ITB 32.1) (d) Specific Experience	b. Lot-2: Value of at least US\$ 3 Million or equivalent. The contract will be treated as similar if it includes supply, installation and commissioning of optical network equipment such as DWDM Line System, 400G Coherent optical transceivers, and other optical transceivers.	The specific requirement clause for Lot-2 is revised as below: b. Lot-2: Value of at least US\$ 2.5 Million or equivalent. The contract will be treated as similar if it includes supply, installation and commissioning of optical network equipment such as DWDM Line System, 400G Coherent optical transceivers, and other optical transceivers. <i>The Bidder shall submit copies of the relevant contracts or purchase orders, together with completion or acceptance certificates, evidence of the Bidder's role and participation, the value of work performed and client contact details sufficient</i>



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			<i>to verify the claimed experience.</i>
3	Section VII - Schedule of Requirements. 3. Technical Specifications. Lot-3: Supply, installation, and commissioning of GovNets server rooms at 21 sites. Item No. 1: 4 Core 25 sqmm with Aluminum Armored Underground Cable	Cable Type: 4 Core Aluminum Armored Underground (UG) Cable Application: Power distribution for three-phase systems (Phase R, Y, B, N) Conductor Material: Solid electrolytic copper Conductor Size: Minimum 25 mm² per core Number of Cores: 4 cores (R, Y, B, Neutral) Insulation Material: PVC (Polyvinyl Chloride) Aluminum Armored: Earthing Voltage Rating: Minimum 1000 V a. Standards Compliance: IEC 60502	Technical Specifications under Lot-3 Item No.1 is revised as below: Item Name & Feature: 4 core, 6 sq. mm per core, copper conductor, armored underground cable. Conductor size: 6 sq. mm per core. Conductor material: copper. Armor material: Galvanized steel wire armor Except for the above changes, all other requirements for Lot 3, Item No. 1 remain unchanged. All references in the Request for Bids, including the Schedule of Supply, Price Schedule, Technical Specifications and related bidding forms, to “4 Core 25 sq. mm with Aluminum Armored Underground Cable” shall be replaced with “4-core, 6 sq. mm per core, copper-conductor, galvanized steel-wire-



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			armored underground cable.
4	Section VII - Schedule of Requirements. 3. Technical Specifications. Lot-3: Supply, installation, and commissioning of GovNets server rooms at 21 sites. Item No.14: HDPE Pipe	Material: High Density Polyethylene (HDPE) Diameter: 25 mm Color: Black Operating Temperature: -20°C to +60°C Cable length: 100 meter per roll Flexibility: Flexible with high resistance to cracking and impact Chemical Resistance: Resistant to corrosion, chemicals, and moisture UV Resistance: UV stabilized, suitable for outdoor installation Surface Finish: Smooth internal and external surface b. Compliance: ISO 4427, IEC 60332	Technical Specifications under Lot-3 Item No. 14: HDPE Pipe diameter is revised as below: Diameter: 32 mm Except for the above changes, all other requirements for Lot 3, Item No. 14 remain unchanged.
5	Section VII - Schedule of Requirements. 6. Description of Works 6.1 PROJECT SCOPE 6.3.3 LOT-3: Supply, installation, and commissioning of GovNet server rooms at 21 sites.	The earthing system shall include: i. Connection to the building's existing earthing ii. Earth resistance values within acceptable limits as per electrical standards. iii. Equipotential bonding between racks, trays, and power systems. k. The contractor shall measure and record earth resistance values and submit test results as part of commissioning documentation.	The scope of work under LOT-3, section 6.3.3. subsection 3 (K) will be revised as below: The Contractor shall measure and record the existing earth-resistance value at each site before connecting the electrical infrastructure. An earth-resistance value of 5 ohms or less shall be considered acceptable. Where the measured value exceeds 5 ohms, the Contractor shall submit the test results and recommendations to the Purchaser. The Purchaser



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			shall arrange and bear the cost of the required remedial or additional earthing works. Connection and commissioning shall proceed only after the Purchaser confirms that the earthing system complies with the applicable standards. The contractual treatment of any resulting delay shall be governed by the relevant contract provisions.
6	Section VII - Schedule of Requirements. Lot-2: Supply, Installation, and Commissioning of DWDM System, Optical Modules, and Accessories Item No. 32: 16CH DWDM Mux/DeMux for 1G/10G DWDM Links	DWDM Channel Support: Minimum 16 Channels DWDM Wavelength: CH20-CH35/CH21-CH36 in ITU G.694.1 standard DWDM region Channel Spacing: 100GHz (0.8nm) Ports & Feature Support: - Monitor Port: Support to monitor optical power levels of the DWDM C-band signals without interrupting live traffic. - Expansion Port: Should support add/drop of future channels and linking additional Mux/DeMux modules. - 1310nm or 1511nm Port: For Management - Line Port: Dual Fiber - Separate fiber port for transmit and receive - DWDM CH Port: Minimum 16 CH Dual Fiber - Input and Output Connector: LC/UPC Insertion Loss (IL): - Typical IL: ≤ 4.5 dB	The Technical specification for Lot-2: Item No. 32: 16CH DWDM Mux/DeMux for 1G/10G DWDM Links is revised as below: Channel Spacing: ≥ 100GHz (0.8nm) Except for the above changes, all other requirements for Lot 2, Item No. 32 remain unchanged.



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	- Maximum IL: ≤ 5 dB (for full 16 channels with monitor and expansion including 1310nm or 1511nm ports) Channel isolation: - Adjacent ≥ 30dB - Non-adjacent ≥ 40dB Channel Passband: ± 0.1nm Passband Ripple: ≤ 0.5dB Return Loss: ≥ 45dB 1U, 19" rack mount chassis (Mounting kit to be provided) Supported Protocol: At least 1G, 10G and 25G Ethernet Operating Temperature: -40 to 55°C Storage Temperature: -40 to 80°C Warranty: Minimum 1 year NOTE: DWDM Mux/DeMux should be proposed in line with the existing in-use fiber type - G.652D SMF, should be compatible with proposed 1G and 10G DWDM transceivers and existing 1G/10G DWDM transceivers. The above clause is as per the amendment-01 issued.	
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Project Management Unit

ACCESS Bhutan Project, GovTech Agency