



**Information & Communication Technology Division, Head Office, Dhaka**

**Date: November 01, 2022**

<b>Tender Name: Lot1: Supply, Installation, Testing &amp; Commissioning of Physical Passive Infrastructure for Data Center</b>				
<b>RFP Ref:</b> FSIBL/ICTD/DC/558/20 22		<b>Tender Floating Date: 05-October-2022</b>		
<b>Item No.</b>	<b>Tender Document Reference</b>	<b>Page</b>	<b>Tender Document Requirement</b>	<b>After Amendment</b>
01	4.1 Bangladesh Bank Compliance.	Page 7	Participating Vendor should have permission from Bangladesh Bank for marketing foreign products in Bangladesh as per the guideline of Foreign Exchange Regulation Act 1947, Section 18A	Participating Vendor should have permission from Bangladesh Bank for marketing foreign products in Bangladesh as per the guideline of Foreign Exchange Regulation Act 1947, Section 18A/IRC/Any import related permission
02	4.2 Eligibility Criteria	Page 7	The tenderer fulfilling pre-qualification criteria must have at least 5 (Five) years overall experience on Precision Air Cooling Base Data Center/Disaster Recovery infrastructure platform and related services and 5 years' experience in the maintenance of Data Center/Disaster Recovery Infrastructure.	The tenderer fulfilling pre-qualification criteria must have at least 5 (Five) years overall experience on Data Center infrastructure platform and related services and 5 years' experience in the maintenance of Data Center/Disaster Recovery Infrastructure.
03	5. ROLL OUT PLAN	Page 9	Delivery of all the equipment must be completed within 90 days and installation work within 120 days from the date of issuance of work order.	Project completion (including delivery, installation, commissioning, testing etc.) should be done within 180 days from the date of issuance of work order.



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04	12. PAYMENT TERMS	Page 24	50% of the total value on the signing of the PO against Bank Guarantee of the same amount with a validity of one year will be paid. BG will be released after supply and successful installation. Otherwise, 50% may be paid after delivery. ii. 30% after Delivery of all Goods/Products iii. 20% after successful UAT. A Performance Security of 10% of the Total Amount should be furnished by the contractor as Bank Guarantee, otherwise this 10% of the Total Amount will be deducted from the final bill.	i. 50% of the total value on the signing of the PO against Bank Guarantee of the same amount with a validity of 9 months will be paid. BG will be released after supply and successful installation. Otherwise, 50% may be paid after delivery. ii. 50% after successful delivery, installation, commissioning & UAT. A Performance Security of 10% of the Total Amount should be furnished by the contractor as Bank Guarantee, otherwise this 10% of the Total Amount will be deducted from the final bill.
05	15.1.1 Civil and Interior Works	Page 33	Fire Rated Door 180min Fire Rated Door Brand: Shakti/Navair/Hormann / Partex or Equivalent Model: To be mentioned by the bidder Country of Origin: USA/EU	Fire Rated Door 180min Fire Rated Door Brand: Partex or Equivalent Model: To be mentioned by the bidder Country of Origin: To be mentioned by the bidder
06	15.1.3 Raised Floor Work	Page 35	Finished Floor Height FFH 450mm Perforated Panel: Perforated Panel (Qty.: 88 Sft)	Finished Floor Height: FFH 300mm Perforated Panel: Perforated Panel (Qty.: 0 Sft)
07	15.1.4 Insulation Work	Page 35	Others Feature: Good fire-retardant rigid PU foam. Both sides aluminum foil with corrosion resistant paint in total thickness 80 micron	Others Feature: Good fire-retardant rigid PU foam. One side aluminum foil with corrosion resistant paint in total thickness 80 micron
08	15.2.2 Double Conversion True Online Modular UPS	Page 37 & 38	Capacity 150 KVA hot scalable Configuration N+1 Backup time Minimum 60 minutes at full load Others: -Local support & Service center of manufacturing company must be located in Bangladesh. -If any other component or equipment's are required for giving the solution, please, mention and quote for the same.	Capacity: 150 KVA hot swappable Configuration: N+1 (For module only, i.e. total capacity will be 150KVA including 1 module as extra) Backup time Minimum 30 minutes at full load (Battery calculation should be provided by OEM) Others: -Local support & Service provided by OEM Nominated Partner in Bangladesh. Must have spare parts availability of the same model UPS in Bangladesh. -If any other component or equipment's are required for giving the solution, please, mention and quote for the same.



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09	15.2.4 Phase correction device (PCD)	Page 40	15.2.4 Phase correction device (APCD) Item: Phase correction device (APCD) Application: Transformer/genset	15.2.4 Automatic Phase correction device (APCD) Item: Automatic Phase correction device (APCD) Application: Before LT AVR of Data Center Power room. If any kind of Phase rotation occurred then detected and output must give corrected right sequence.
10	15.2.11 Emergency Light	Page 47	Item: Heavy Duty Emergency Light (Qty.: 22 Nos)	Item: Heavy Duty Emergency Light (Qty.: 15 Nos)
11	15.3.1 Precision Air Conditioner (PAC)	Page 49	WORKING CONDITIONS Dry bulb temperature 29.4 °C Wet bulb temperature 16.2 °C Relative humidity 24% Altitude 0m External static pressure (default 0 Pa) 0Pa In-Row unit air flow (@ return conditions) 6840m <sup>3</sup> /h Outdoor air temperature 35 °C Outdoor air relative humidity 30% Superheating 5D °C Subcooling 5D °C Compressor Speed 78.30% Envelope-based condenser control strategy PERFORMANCE / FEATURES Total Gross Cooling Capacity 32.1kW Sensible Gross Cooling Capacity 31.3kW Net sensible cooling capacity 29.7kW SHR 97.40% Room unit absorbed power 12.1kW In-Row Unit EER 2.5kW/kW SCOP 2.2kW/kW Actual Room unit air flow rate @ return conditions 6840m <sup>3</sup> /h Discharge air temperature 15.7 °C Discharge air relative humidity 55.10% Fan(s) absorbed power 1.6kW Fan(s) absorbed current 2.6A Fan(s) speed regulation 93.30% Compressor absorbed power 10.6kW Compressor absorbed current 16.8A Compressor COP 3kW/kW Compressor regulation 78.30% Condenser Fan(s) Power 1.3kW Condenser Fan(s) Current 5.7A Condenser Air Flow Rate 18479m <sup>3</sup> /h Condenser Fans Speed 100% Inner Unit Sound pressure level @ 1.8 m 80.6dB(A) Outdoor Condenser Sound pressure level	WORKING CONDITIONS Dry bulb temperature 29.4 °C / above Wet bulb temperature 16.2 °C / above Relative humidity 24% / above Altitude 0m / above External static pressure (default 0 Pa) 0Pa / above In-Row unit air flow (@ return conditions) 6840m <sup>3</sup> /h / above Outdoor air temperature 35 °C / above Outdoor air relative humidity 30% / above Superheating 5D °C / above Subcooling 5D °C / above Compressor Speed 78.30% / above Envelope-based condenser control strategy PERFORMANCE / FEATURES Total Gross Cooling Capacity 32.1kW / above Sensible Gross Cooling Capacity 31.3kW / above Net sensible cooling capacity 29.7kW / above SHR 97.40% / above Room unit absorbed power 12.1kW / above In-Row Unit EER 2.5kW/kW / above SCOP 2.2kW/kW / above Actual Room unit air flow rate @ return conditions 6840m <sup>3</sup> /h / above Discharge air temperature 15.7 °C / above Discharge air relative humidity 55.10% / above Fan(s) absorbed power 1.6kW / above Fan(s) absorbed current 2.6A / above Fan(s) speed regulation 93.30% / above Compressor absorbed power 10.6kW / above Compressor absorbed current 16.8A / above Compressor COP 3kW/kW / above Compressor regulation 78.30% / above Condenser Fan(s) Power 1.3kW / above Condenser Fan(s) Current 5.7A / above Condenser Air Flow Rate 18479m <sup>3</sup> /h / above Condenser Fans Speed 100% / above Inner Unit Sound pressure level @ 1.8 m 80.6dB(A) / above Outdoor Condenser Sound pressure level @ 1.8 m free field (@ max 60.7dB(A) / above speed) Hourly Capacity of Humidifier 3l/h / above Rated Electrical Power of Humidifier 2.3kW / above Rated Electrical Current

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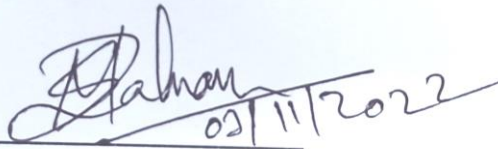
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			@ 1.8 m free field (@ max 60.7dB(A) speed) Hourly Capacity of Humidifier 3l/h Rated Electrical Power of Humidifier 2.3kW Rated Electrical Current of Humidifier 3.2A Number of Standard Heaters 2 Total Rated Electrical Heater Power 6kW Total Rated Electrical Heater Current 9.6A	of Humidifier 3.2A/above Number of Standard Heaters 2/above Total Rated Electrical Heater Power 6kW/above Total Rated Electrical Heater Current 9.6A/above
12	15.3.4 Comfort Air Conditioner	Page 54	Item: Cassette Type Air Conditioner for Power Room	Item: Wall Mounted Split Type Air Conditioner for Power Room
13	15.3.5 Server Rack	Page 55		Country of Manufacturing To be mentioned by the bidder Country of Shipment To be mentioned by the bidder
14	15.3.6 Network Rack	Page 56	Features * Toughened glass front door, steel rear door ; * Adjustable leveling feet and heavy duty castors are available simultaneously; * Closable cable entries in the top cover and bottom panel; * Removable side panels; * Easy and stable structure for fast assembly * Around 1/3 assembled original volume when flat pack.	Country of Manufacturing To be mentioned by the bidder Country of Shipment To be mentioned by the bidder Features * Toughened perforated front door, steel rear door ; * Adjustable leveling feet and heavy duty castors are available simultaneously; * Closable cable entries in the top cover and bottom panel; * Removable side panels; * Easy and stable structure for fast assembly * Around 1/3 assembled original volume when flat pack.
15	15.4 Fire Protection & Safety	Page 57	Cylinder - Valve assembly - IG541 gas: 80L Cylinder / Valve Assembly + Protec. Cap / IG / Cyl. CE / 300 Bar / FILLED IG 541 / UL / FM (Should be integrated with existing system & cylinder)	Cylinder - Valve assembly - IG541 gas: Cylinder / Valve Assembly + Protec. Cap / IG / Cyl. CE / 300 Bar / FILLED IG 541 / UL / FM (Should be integrated with existing system & cylinder)
16	15.5.1 Environment Monitoring System (EMS)	Page 65	Smoke Sensor (Qty.: 20 Nos) Room Entry Sensor: (Qty.: 5 Nos) Flood/Water Sensor: (Sensor Cable Length: 25')	Smoke Sensor (Qty.: 0 Nos) Room Entry Sensor: (Qty.: 0 Nos) Flood/Water Sensor: (Sensor Cable Length: 10')

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17	15.5.2 Data Center Infrastructure Management (DCIM)	Page 66 & 78	License: Perpetual License for software and at least 2000 devices including active & passive devices and must be capable to cover DC, DR & Far DR equipment all together SCHEDULE B Financial Proposal Financial Proposal Provide costs related to the 'base system' to support XXX elements; unlimited edit/update capabilities and unlimited read only access. Provide Costs associated with Annual License Fees. "Provide a price list for installation support to provide a solution in working order. Itemize by: • install and configure software • migrate data " Provide the costs associated with adding templates for equipment or other components. "Provide the costs associated with your business continuity solution. The quote must list: • All equipment and software being proposed • Software licensing terms and costs • Impact to Annual Maintenance Contract Cost" Provide the costs associated with each of the proposed training options. Provide costs associated with an annual maintenance support contract.	License: Perpetual License for software and at least 1000 devices including active & passive devices and must be capable to cover DC, DR & Far DR equipment all together SCHEDULE B Financial Proposal Financial Proposal Should be included costs related to the 'base system' to support XXX elements; unlimited edit/update capabilities and unlimited read only access.
18	Submission Date	Page - 1	Last Date of Submission: 06-Nov-2022 ; 2:30PM	Last Date of Submission: Lot:1 13-Nov-2022, 2:30PM
19	15.9 Data center design, validation and certification	Page 101	As per discussion at Pre-bid meeting.	Bidder must submit financial proposal for Rated 3 design, validation and certificate.

  
 01/11/2022  
**Head of ICT Division**

