

INVITATION FOR BIDS (IFB)
NATIONAL COMPETITIVE BIDDING

The Republic of Ghana

Ministry of Communication, Digital Technology and Innovations

NATIONAL DATA CENTER REFRESH AND UPGRADE
Credit No IDA 70960-GH

IFB No: GDAP/Comp2.1.1 - GH-MOCDTI-509838-GO-RFB

ADDENDUM 1

CLARIFICATIONS TO REQUESTS

Reference is made to the above invitation which was published on June 12, 2026. We wish to clarify request from bidders as follows.

We wish to inform Bidders that the submission deadline has been extended to **Thursday, 13th August 2026**. The venue remains the conference room of the Ministry of Communication, Digital Technology and Innovations

National Data Center Refresh and Upgrade
GDAP/Comp2.1.1 - GH-MOCDTI-509838-GO-RFB

No.	REQUEST	CLARIFICATION
1.	The tender document states regarding Bid Security: "All Bids must be accompanied by a Bid Security in the amount of US\$200,000.00 for Bank Guarantee and US\$600,000.00 for Insurance Bond." Kindly clarify whether both a Bank Guarantee and an Insurance Bond are required to be submitted simultaneously. The tender document states regarding Bid Security: "All Bids must be accompanied by a Bid Security in the amount of US\$200,000.00 for Bank Guarantee and US\$600,000.00 for Insurance Bond." Kindly clarify whether both a Bank Guarantee and an Insurance Bond are required to be submitted simultaneously.	Only one security is required. It is either a Bank Guarantee of US\$200,000.00 or an Insurance Bond of US\$600,000.00, in accordance with ITB 20.1.

No.	REQUEST	CLARIFICATION				
	4 6. The bidding document in English may be purchased by interested eligible Bidders upon the submission of a written application to the address below and upon payment of a nonrefundable fee of GHC2,000.00. The method of payment will be cash or bank draft in the name of the Ministry of Communication, Digital Technology and Innovations. The document will be sent by either email, courier or pickup. Cost of courier service to be borne by prospective bidder. 7. Bids must be delivered to the address below or before 10:00GMT, 24th July 2026. Electronic Bidding will not be permitted. Late Bids will be rejected. The outer Bid envelopes marked "ORIGINAL BID", and the inner envelopes marked "TECHNICAL PART" will be publicly opened in the presence of the Bidders' designated representatives and anyone who chooses to attend, at the address below on 10:00GMT, 24th July 2026. All envelopes marked "SECOND ENVELOPE: FINANCIAL PART" shall remain unopened and will be held in safe custody of the Purchaser until the second public opening. 8. All Bids must be accompanied by a by a Bid Security in the amount of US\$200,000.00 for Bank Guarantee and US\$600,000.00 for Insurance Bond. 9. Attention is drawn to the Procurement Regulations requiring the Borrower to disclose information on the successful bidder's beneficial ownership, as part of the Contract Award Notice, using the Beneficial Ownership Disclosure Form as included in the bidding document. 10. The address(es) referred to above is (are): <table><thead><tr><th>Address for Download and/or Purchase of Bidding Documents</th><th>Address for Submission of Bids</th></tr></thead><tbody><tr><td>The Chief Director Attn: The Project Coordinator: Ghana Digital Acceleration Project (GDAP) Project Rooms 39 Fifth Floor, Ministry of Communication, Digital Technology and Innovations Office Complex Abdul Diaoof Street, near Kofi Annan ICT Centre of Excellence P.O. Box M.38, Ministries, Accra Ghana Digital Address: GA-079-0539 To Email: pcu.gdap@moc.gov.gh URL: https://moc.gov.gh/tenders-awards/</td><td>The Chief Director Attn: The Project Coordinator: Ghana Digital Acceleration Project (GDAP) Six Floor, Conference Room Ministry of Communication, Digital Technology and Innovations Office Complex Abdul Diaoof Street, near Kofi Annan ICT Centre of Excellence P.O. Box M.38, Ministries, Accra Ghana Digital Address: GA-079-0539</td></tr></tbody></table>	Address for Download and/or Purchase of Bidding Documents	Address for Submission of Bids	The Chief Director Attn: The Project Coordinator: Ghana Digital Acceleration Project (GDAP) Project Rooms 39 Fifth Floor, Ministry of Communication, Digital Technology and Innovations Office Complex Abdul Diaoof Street, near Kofi Annan ICT Centre of Excellence P.O. Box M.38, Ministries, Accra Ghana Digital Address: GA-079-0539 To Email: pcu.gdap@moc.gov.gh URL: https://moc.gov.gh/tenders-awards/	The Chief Director Attn: The Project Coordinator: Ghana Digital Acceleration Project (GDAP) Six Floor, Conference Room Ministry of Communication, Digital Technology and Innovations Office Complex Abdul Diaoof Street, near Kofi Annan ICT Centre of Excellence P.O. Box M.38, Ministries, Accra Ghana Digital Address: GA-079-0539	
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2.	Clauses ITB 11.2 (i) and 11.3 (d) of the tender require submission of the Code of Conduct for Supplier's Personnel (ES) and the Management Strategies and Implementation Plans (MSIP) for ES risk control. However, no standard templates for these documents are attached to the tender dossier. Please advise how we should handle this requirement. May the bidder prepare and submit self-drafted declarations and plans on its own?	The Code of Conduct form is introduced under Section IV - Bidding Forms of the revised bidding document. Bidders shall prepare and submit their own Management Strategies and Implementation Plans (MSIPs). The attention of bidders is called to the revised and expanded requirement under ITB 11.2 (i) & 11.3 (d) of Section II - Bid Data Sheet (BDS), and 5.0 Environmental, Social, Health and Safety Requirements under Section VII – Schedule of Requirements				
3.	The tender requires submission of a signed Power of Attorney, yet no corresponding template is provided. Please advise if there are any specified formatting requirements for the Power of Attorney document.	There is no prescribed template.				

No.	REQUEST	CLARIFICATION
4.	In Part 5 of the List of Goods and Delivery Schedule, the quantity of laptops is specified as 50 units. However, Section 7, Clause 1.2.11 of the Schedule of Requirements states 45 laptops. Could you please confirm the exact required quantity of laptops?	The required total quantity is 50 laptops: 15 Network Engineers' laptops, 15 System Engineers' laptops, and 20 General-Purpose laptops. Any reference to 45 laptops is superseded.
5.	Delivery Schedule: confirm the required earliest and latest delivery dates for all goods under the contract.	The earliest delivery time is 24 weeks and the latest is 28 weeks.
6.	Completion Timeline: provide the final completion dates for the related services, including installation, integration, testing, commissioning, and training activities.	The completion timeline is the end of the 28 weeks.
7.	Award Methodology: The bidding document indicates that the procurement comprises one lot; however, another clause references evaluation and award by individual items. Kindly clarify whether the contract will be awarded as a single lot or on an item-by-item basis.	The procurement and award are for single lot.
8.	UPS Specification Discrepancies: confirm the authoritative specifications where inconsistencies exist between sections of the bidding document, including: - Accra HVAC UPS (200 KVA vs. 300 KVA); - F5 UPS requirements (2 x 500 NVA vs. 4 x 300 KV A); {Kumasi UPS requirements (90 KVA vs. 3 x 200 KVA). Section: List of Goods and Delivery Schedule (P93-99); Table 2.1.3 RENOVATION&EXPANSION SCHEME – ACCRA DATA CENTER (P105) Original Requirement:	The Accra HVAC UPS is 200KV. The 300KVA is a mistake. The F5 UPS requirement is 4 x 300KVA is the correct one. The 2 x 500KVA is wrong. The Kumasi UPS is 3 x 200 KVA. The 90KVA is wrong.

1. List of Goods and Delivery Schedule						
Line Item No.	Description of Goods	Quantity	Physical Unit	Final Project Date (Indication as specified in BQ)	Delivery (as per documented BQ)	
					Earliest Delivery Date	Latest Delivery Date
Insert item No.	Insert description of Goods	Insert quantity of item or its equivalent	Insert physical unit of the supply	Insert place of delivery	Insert the number of days following the date of effectiveness of the Contract	Insert the number of days following the date of effectiveness of the Contract
Data Center Refresh						
Insert Data Center Facility Address						
1.11	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.12	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.13	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.14	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.15	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.16	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.17	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.18	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.19	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.20	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.21	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.22	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.23	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.24	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.25	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.26	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.27	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.28	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.29	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.30	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.31	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.32	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.33	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.34	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.35	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.36	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.37	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.38	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.39	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		
1.40	One (01) KVA Transformer (100 to 110V) 100KVA 110V (see Bidding Item) 100KVA	1	pcs	Accra DC		

No.	REQUEST	CLARIFICATION																																
	2.1.3 RENOVATION&EXPANSION SCHEME – ACCRA DATA CENTER <table><tr><th>No</th><th>Item</th><th>Unit</th><th>Quantity</th></tr><tr><td>1</td><td colspan="3">Device Replacement & System Upgrade</td></tr><tr><td>1.1</td><td>One 300 KVA Modular UPS for HVAC (VRLA 10 min backup time@1000KVA)</td><td>pcs</td><td>1</td></tr><tr><td>1.2</td><td>One 300 KVA Modular UPS for pump (VRLA 10 min backup time@1000KVA)</td><td>pcs</td><td>1</td></tr><tr><td>1.3</td><td>200 KVA Modular UPS for Network (VRLA 10 min backup time@2000KVA)</td><td>pcs</td><td>2</td></tr><tr><td>1.4</td><td>200 KVA Modular UPS for F3 room (VRLA 10 min backup time@2000KVA)</td><td>pcs</td><td>4</td></tr><tr><td>1.5</td><td>200 KVA Modular UPS for F4 room (VRLA 10 min backup time@2000KVA)</td><td>pcs</td><td>4</td></tr><tr><td>1.6</td><td>50KW In-room Precision Air-Condition (PAC) for Power Electronics Room</td><td>pcs</td><td>2</td></tr></table> Questions to be Clarify: 1.11 UPS specification in 1. List of Goods and Delivery Schedule(P93) is different with 1.1 in 2.1.3 RENOVATION&EXPANSION SCHEME – ACCRA DATA CENTER (P105), which one is the correct requirement?	No	Item	Unit	Quantity	1	Device Replacement & System Upgrade			1.1	One 300 KVA Modular UPS for HVAC (VRLA 10 min backup time@1000KVA)	pcs	1	1.2	One 300 KVA Modular UPS for pump (VRLA 10 min backup time@1000KVA)	pcs	1	1.3	200 KVA Modular UPS for Network (VRLA 10 min backup time@2000KVA)	pcs	2	1.4	200 KVA Modular UPS for F3 room (VRLA 10 min backup time@2000KVA)	pcs	4	1.5	200 KVA Modular UPS for F4 room (VRLA 10 min backup time@2000KVA)	pcs	4	1.6	50KW In-room Precision Air-Condition (PAC) for Power Electronics Room	pcs	2	
No	Item	Unit	Quantity																															
1	Device Replacement & System Upgrade																																	
1.1	One 300 KVA Modular UPS for HVAC (VRLA 10 min backup time@1000KVA)	pcs	1																															
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1.5	200 KVA Modular UPS for F4 room (VRLA 10 min backup time@2000KVA)	pcs	4																															
1.6	50KW In-room Precision Air-Condition (PAC) for Power Electronics Room	pcs	2																															
9.	Duplicate PAC Item: The BOQ contains two entries for “Replace in-row PAC 30KW for F3” (16 units each). Kindly confirm whether one of these entries should refer to F4.	Yes. The second entry is a typographical error. Item 1.28 is 16 × 30 kW in-row PAC units for F3 and Item 1.29 is 16 × 30 kW in-row PAC units for F4.																																
10.	General Purpose Laptop Quantity: confirm the correct quantity of General-Purpose Laptops, as different sections reference 20 units and 15 units respectively.	The correct quantity of General-Purpose laptops is 20 units. Together with 15 Network Engineers’ laptops and 15 System Engineers’ laptops, the total laptop quantity is 50 units.																																
11.	Cybersecurity Requirements: Does cybersecurity apply to this project despite SCC wording?	Yes. All cybersecurity obligations apply to the entire project, including supply, installation, migration, integration, operations, support and disposal. The Supplier shall comply with Ghana’s Cybersecurity Act, 2020 (Act 1038), applicable directives and standards of the Cyber Security Authority and NITA, and the security requirements in the bidding document. The SCC will be corrected where necessary.																																
12.	Inspection and Testing Requirements: What inspections and tests are required before acceptance?	Inspections and tests shall include document and design review; OEM certificates; factory acceptance testing where applicable; pre-shipment inspection; delivery inspection; installation verification; electrical, mechanical and safety tests; configuration and integration tests; performance, capacity, resilience/failover and security tests; migration rehearsal and rollback tests; user acceptance testing; and final commissioning. Detailed test plans and acceptance procedures shall be submitted for the Purchaser’s approval before testing. The SCC will be completed by addendum.																																
13.	Migration and Outage Windows: provide the permitted outage windows for live migration	No fixed outage window is granted at bidding stage. The Supplier shall design for no unplanned outage and minimum planned downtime. Any planned interruption must be proposed in the migration plan and approved in writing by NITA after stakeholder coordination. Critical services will normally be migrated during approved off-peak/weekend maintenance windows, with tested rollback procedures.																																
14.	Acceptance Criteria: What are the acceptance criteria for AI cloud, network, storage, DCIM, and facility works?	Acceptance will be based on compliance with the amended specifications and approved design; successful FAT/SAT, integration, security, performance, capacity and resilience tests; successful migration and rollback validation; delivery of licenses, warranties, as-built drawings, configurations, source/administrative credentials, manuals and training; closure of critical/high defects; and signed UAT/commissioning certificates. Component-specific acceptance of test plans shall be agreed before implementation.																																

No.	REQUEST	CLARIFICATION				
15.	Equivalent Products: Are specific OEM-equivalent alternatives acceptable where specifications appear vendor-specific?	Yes. Equivalent or better products are acceptable, provided the bidder demonstrates item-by-item compliance, interoperability, required performance and support, and does not materially deviate from the functional requirements. Brand names, where used, indicate the required standard of quality or compatibility and shall be read with ‘or equivalent’. Documentary evidence must be submitted with the bid.				
16.	Hardware Replacement Support: The document specifies 9x5 next-business-day hardware replacement support. Kindly confirm whether this level of support is sufficient for critical national infrastructure or if enhanced 24x7 replacement support is expected.	For critical infrastructure components, 24×7 technical support with 30-minute response for critical incidents is required. Hardware replacement shall be the OEM’s highest locally deliverable service level and shall not be less than next-business-day replacement. Bidders shall clearly state replacement lead times and provide local spares/standby arrangements for components where next-business-day replacement would create unacceptable service risk.				
17.	Liquidated Damages: clarify how delay liquidated damages and contractual guarantee LDs interact	The two do not interact, they are separate				
18.	Warranty and Support Obligations: clarify whether the 365-day warranty period operates concurrently with, or separately from, the required three-year support and maintenance services.	Yes, The 12-month/365-day warranty period runs concurrently with the three-year support and maintenance services.				
19.	Payment Mechanism: confirm exact payment method to be used: World Bank Direct Payment, Letter of Credit, or bank transfer	Any of the three options can be used.				
20.	Currency Requirements: clarify whether fully in Ghana Cedis, or are foreign currency components permitted under the price schedules. Can we submit the bid documents with all prices denominated in United States Dollars (USD)? Section II - Bid Data Sheet (BDS) 49 <table><tr><td></td><td>(b) Deviation in payment schedule: No (c) the cost of major replacement component, mandatory spare parts, and service: No (d) the availability in the Purchaser’s Country of spare parts and after-sales services for the equipment offered in the Bid: No (e) Life cycle costs: the costs during the life of the goods or equipment: No (f) the performance and productivity of the equipment offered: No</td></tr><tr><td>ITB 36.1</td><td>The currency that shall be used for Bid evaluation and comparison purposes to convert at the selling exchange rate all Bid prices expressed in various currencies into a single currency is: Ghana Cedis (GHC) The source of exchange rate shall be: The Bank of Ghana The date for the exchange rate shall be 24th July 2026</td></tr></table>		(b) Deviation in payment schedule: No (c) the cost of major replacement component, mandatory spare parts, and service: No (d) the availability in the Purchaser’s Country of spare parts and after-sales services for the equipment offered in the Bid: No (e) Life cycle costs: the costs during the life of the goods or equipment: No (f) the performance and productivity of the equipment offered: No	ITB 36.1	The currency that shall be used for Bid evaluation and comparison purposes to convert at the selling exchange rate all Bid prices expressed in various currencies into a single currency is: Ghana Cedis (GHC) The source of exchange rate shall be: The Bank of Ghana The date for the exchange rate shall be 24th July 2026	Refer to ITB 36.1 as amended in the attached revised bidding document.
	(b) Deviation in payment schedule: No (c) the cost of major replacement component, mandatory spare parts, and service: No (d) the availability in the Purchaser’s Country of spare parts and after-sales services for the equipment offered in the Bid: No (e) Life cycle costs: the costs during the life of the goods or equipment: No (f) the performance and productivity of the equipment offered: No					
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21.	Applicable Standards: confirm the specific ISO, IDCA, Tier level expected	The solution shall comply with applicable ISO/IEC standards, including ISO/IEC 27001, ISO/IEC 20000-1, ISO 22301 and relevant data-centre facility standards such as ISO/IEC 22237/TIA-942. The design objective is resilient concurrent maintainability consistent with				

No.	REQUEST	CLARIFICATION
		the existing facility and the requirements stated in the bidding document. The Data Center facility is currently built to IDCA Class C or Uptime Tier III.
22.	AI Governance and Data Protection: what cybersecurity, data protection, and AI governance standards should apply to the AI cloud platform?	The AI Cloud Platform shall comply with all applicable Ghanaian laws, regulations, policies and standards, including the Cybersecurity Act, 2020 (Act 1038), Data Protection Act, 2012 (Act 843), privacy-by-design/default, data residency and sovereignty requirements, least privilege, encryption, logging, vulnerability management, secure model/data lifecycle controls, human oversight, auditability and responsible/ethical AI principles. Detailed security and privacy designs shall be submitted for approval.
23.	Please provide comprehensive, current as-built architectural drawings for the Accra facility, including ground floor engineering services and upper data halls.	Unfortunately, because of the security nature of the data center, the as built architecture drawing cannot be shared
24.	Provide the structural room dimensions and floor load-bearing capacity for the designated F5 expansion room to accommodate the 68 new racks.	Unfortunately, because of the security nature of the data center, the as built architecture drawing cannot be shared
25.	Regarding the F5 expansion room to accommodate the 68 new racks: What are the proposed arrangements of the containments in a 2-containment or 3-containment system?	The indicative requirement is two containment blocks accommodating 68 racks. Bidders may propose an optimized two- or three-containment arrangement, subject to room geometry, N+1 cooling, maintainability, fire/life-safety compliance and Purchaser approval.
26.	Provide dimensional drawings, structural shaft restrictions, and weight capacities required to transition the current passenger setup into a freight elevator.	The required freight elevator capacity is 2 tonnes. The Supplier shall survey the shaft and structure and submit a compliant conversion design and statutory approvals.
27.	Whitespace Configuration: The first-floor houses five operational data halls and a Main Distribution Area (MDA) room. What is the total number of containments (Fusion Modules) currently existing in the facility?	A total of 4 fusion modules currently exist in the facility.
28.	What is the approximate number of racks currently available in the data center across the GF, FF, F3, and F4 levels?	The Approximate number of racks currently available is 150.
29.	Provide dimensional drawings for F5 or the approximate area in square meters (m ²) for the proposed raised floor. Kindly indicate the load-bearing capacity and required floor height.	Unfortunately, because of the security nature of the data center, the as built architecture drawing cannot be shared
30.	Please provide the current electrical Single-Line Diagrams (SLD) detailing the two 11kV utility feeds, bus couplers, transformers, LV distribution, UPS systems, and remote PDUs.	Unfortunately, because of the security nature of the data center, information cannot be shared at this time
31.	What are the physical space constraints for power rooms A & B and the battery room footprint regarding the complete replacement of the 10 legacy UPS units in rooms F3, F4, and the MDA? Please share the as-built drawings with exact room dimensions.	Unfortunately, because of the security nature of the data center, information cannot be shared at this time
32.	For the four new 300 kVA Modular UPS units for White Space F5, please clarify if they will reside in the existing UPS rooms or a newly designated space. Please share the relevant as-built drawings with room dimensions.	Unfortunately, because of the security nature of the data center, information cannot be shared at this time
33.	Regarding the single 300 kVA Modular UPS for HVAC (VRLA with 10-minute backup time @ 300kVA): Is this UPS adequately sized to meet the overall HVAC load demand, considering the F5 expansion as well?	The corrected requirement is 1 × 200 kVA HVAC UPS. The bidder shall validate the diversified HVAC load, starting currents, redundancy and F5 expansion demand and propose any necessary design optimization without reducing the required performance.
34.	Proposed connectivity arrangements: Will the connections for the UPS input distribution panel and UPS output distribution panel be implemented using busbars or cables?	The bidder shall propose busbar or cable connections based on rating, fault level, routing, selectivity, maintainability and space constraints. The final method is subject to approved detailed design and shall include all terminations and protection.

No.	REQUEST	CLARIFICATION
35.	Provide the model numbers, as-built mechanical piping, and schematic layouts for the Marley cooling towers, 1,283.3kW chillers, secondary pumps, and underfloor IRC feeds.	The Cooling towers and Chillers are not within the scope of the refresh activity.
36.	What is the current operational condition of the cooling tower? Are there any existing issues related to increased condenser water temperature, higher chiller head pressure, excessive vibration, abnormal noise, or elevated water consumption and drift?	The cooling towers are operational but are not within the refresh scope. Detailed condition information and maintenance records, where available, will be provided during due diligence. Bidders shall inspect, test and include all works required to meet the specified capacity and reliability.
37.	What is the condition of the primary and secondary pumps? Are there any known issues related to reduced water flow, excessive vibration, abnormal noise, bearing/mechanical seal wear, leakage, or reduced system reliability affecting chilled water circulation? Kindly specify the capacity of the pumps.	The pumps are operational but require condition verification. Available nameplate/capacity and maintenance information will be shared during due diligence. Bidders shall inspect and test flow, vibration, seals, bearings and controls and include necessary remedial/replacement works within the stated scope.
38.	Confirm if the 12 legacy In-Room A/C units targeted for complete replacement must match the precise physical footprint and plumbing drop locations of the current units. We expect architectural drawings showing the containment systems, equipment footprints, and mechanical piping layouts.	Replacement units need not have the identical footprint, but must fit the available space and connect safely to the existing/modified services without reducing access or redundancy. All adaptations, valves, piping, drainage, supports and controls necessary for a complete installation are included.
39.	White Space (F5) Room 68-Racks Expansion: The requirements for the In-row Precision Air-Conditioning (PAC) do not state the capacity. Is the quantity of 24 units mentioned in the BOQ based on a 30kW capacity design, considering N+1 redundancy at the row level?	Yes. The F5 in-row PAC requirement is 24 units, each with 30 kW total cooling capacity, arranged to meet the approved N+1 cooling design. The bidder shall validate the load calculation and containment arrangement.
40.	Please define the migration scope for the live environment: which workloads, services and data are to be migrated to the new platform, the approximate migration volumes, permitted maintenance windows, maximum acceptable downtime (including whether "migration without downtime" is a mandatory requirement), rollback expectations, and the responsibility split between the Supplier, NITA and any third parties.	The migration covers all workloads, services, configurations and data hosted on equipment being replaced and required to establish the new cloud, storage and network platform. Detailed inventory/volumes will be shared with the successful bidder under controlled access. The Supplier leads discovery, planning, tooling, rehearsal, execution and rollback; NITA provides approvals, access and application-owner coordination; third parties support their proprietary applications. No unplanned downtime is acceptable and planned downtime requires prior written approval.
41.	Beyond the single "30-minute critical response" commitment, no SLA matrix has been provided. Please issue the service severity definitions, response and resolution targets, availability targets (%), and the performance measurement and reporting methodology applicable during the support period.	The Supplier shall propose a comprehensive SLA meeting at least: P1—24x7, 30-minute response, continuous restoration effort; P2—1-hour response; P3—4-business-hour response; P4—next-business-day response. Resolution/workaround targets, availability measurement, exclusions, escalation and monthly reporting shall be included in the SLA and finalized before acceptance. OEM support must remain valid throughout the three-year period.
42.	Please reconcile the requirement for a 6-year spare-parts functioning period with the 3-year support and O&M scope. Confirm whether bidders must guarantee spare-parts availability and fixed pricing for the full 6-year period, and whether a priced spare-parts list covering the entire period is required as part of the bid submission.	The six-year requirement concerns OEM product support and spare-parts availability; the priced support/O&M obligation is three years. Bidders shall provide OEM confirmation that the equipment will not reach end of support within six years from acceptance. Fixed pricing and a priced list for years 4–6 are not required unless expressly requested in the Price Schedules.
43.	Provide the software versions, APIs, and protocol details (e.g., SNMP/Modbus) of the core DCIM to ensure the new F5 DCIM and replaced F3/F4 NetEco systems integrate seamlessly.	The proposed solution shall support open standard integration, including SNMP v3 and Modbus TCP/IP where applicable, and any required licensed APIs/connectors. The Supplier is responsible for discovery, integration and end-to-end testing.
44.	What specific functional modules are incorporated in the current DCIM configuration? Are they monitoring only the power, HVAC, access control, and	The current environment primarily monitors power, UPS, cooling, environment, water leakage, smoke, CCTV and access control. Bidders shall provide the modules expressly

No.	REQUEST	CLARIFICATION
	environment, or do they include asset management, capacity management, change management, and connectivity modules?	required in the technical specifications and identify optional asset, capacity, change and connectivity functions separately where not mandatory.
45.	What is the approximate number of racks currently available across the data center GF, FF, F3, and F4 levels?	150
46.	Does the current PDU infrastructure in the data center support TCP/IP monitoring and metering features? Are all these PDUs integrated with the DCIM / NetEco platforms?	No. That is the reason we are replacing all of them.
47	Please provide details on the existing BMS (Building Management System) that monitors and controls the electrical and mechanical infrastructure, including hardware and software specifications.	Huawei NetEco is currently what is being used to manage electrical and mechanical infrastructure. The vendor is expected to a new one or the most current version of the NetEco to be installed. The proposed one should determine the hardware specification to go along with it.
48	Is there a Chiller Plant Management System (CPMS) installed in the facility designed to automate central cooling plants (e.g., managing water temperature, flow rates, and energy usage)? If so, please provide configuration and hardware details.	No. We currently do not have a CPMS installed in the facility for central management of the chillers.
49	Provide the exact device counts, current head-end controller specifications, and floor plan maps for the legacy CCTV systems requiring replacement across the GF & FF.	This information has been provided during the guided tour and survey that was conducted for prospective bidders
50	Provide the exact device counts, current head-end controller specifications, and floor plan maps for the legacy access control systems requiring replacement across the GF & FF.	This information has been provided during the guided tour and survey that was conducted for prospective bidders
51	Fire suppression is currently managed via FM200 gas using a double-knock system, with detection facilitated through VESDA. Will these systems be extended to F5, or should they be provisioned as part of the new RFP? Kindly share room dimensions to estimate total volume.	The F5 expansion shall include a complete compliant fire detection and clean-agent suppression solution integrated with the existing double-knock/VESDA architecture. Room dimensions will be issued in the controlled information pack; the Supplier shall calculate agent quantity, zoning and interfaces and obtain required approvals.
52	Please provide comprehensive, current as-built architectural drawings for the Kumasi facilities, including the IT Container, Cooling Container, and Power Supply Container.	This information has been provided during the guided tour and survey that was conducted for prospective bidders
53	Are there any additional IT containers to be installed along with the existing IT container that houses 42 racks?	No additional IT container is included unless expressly listed in the amended Schedule of Requirements. The scope is the renovation/upgrade of the existing 42-rack IT container and its supporting power, cooling, DCIM and R-PDU systems.
54	Please provide the current electrical Single-Line Diagrams (SLD) detailing the utility feeds, bus couplers, transformers, LV distribution, and remote PDU architecture for Kumasi DC.	This information has been provided during the guided tour and survey that was conducted for prospective bidders
55	Please provide the electrical Single-Line Diagrams (SLD) for the secondary/redundant pathways detailing utility feeds, transformers, and distribution panels.	This information has been provided during the guided tour and survey that was conducted for prospective bidders
56	Power Supply Container: Kindly specify the number of existing cooling units at the Power Supply Container and their capacities. Are they fed from the same chiller plant that supports the IT container?	This information has been provided during the guided tour and survey that was conducted for prospective bidders
57	2.1.4 Renovation Scheme - Kumasi Data Center: Is the proposed plan intended to replace only the UPS systems, or the entire Power Supply Cabinets?	The scope is replacement of the UPS and associated batteries, input/output cabinets, protection, cabling, controls and integration necessary for a complete functioning power system. Existing cabinets may be retained only where expressly approved after condition and capacity verification.
58	2.1.4 Renovation Scheme - Kumasi Data Center: Confirm if the proposed plan involves replacing 84 units of Smart R-PDUs within the IT container.	Yes. The proposed plan includes replacement/provision of 84 smart R-PDUs for the 42 racks (two per rack), including network monitoring and DCIM integration.

No.	REQUEST	CLARIFICATION																																																																																																											
59	Provide the technical space constraints and component connection layouts for the Huawei IDS1000 cooling, IT, and power container units slated for replacement.	This information has been provided during the guided tour and survey that was conducted for prospective bidders																																																																																																											
60	As per the RFP for Kumasi Cooling Container: There are four water-cooled units approaching their end of service life that require replacement. Clarify if these are air-cooled or water-cooled water chillers.	The four units are water-cooled chillers serving the Kumasi containerized cooling system. Bidders shall verify nameplates and hydraulic/electrical interfaces during site inspection and propose compliant replacements.																																																																																																											
61	Regarding the DX integrated air conditioner for the IT Room and Power room: Please clarify if these DX units cannot be fed directly from the water chillers.	The DX units are independent direct-expansion units and are not to be connected directly to the chilled-water circuit. They shall be replaced/maintained as DX systems unless an approved alternative design demonstrates equal or better resilience and efficiency.																																																																																																											
62	IT Container: All row-based air conditioners are approaching their end of service life and need replacement. Kindly provide the number of existing cooling units in the IT container and their capacities.	This information has been provided during the guided tour and survey that was conducted for prospective bidders																																																																																																											
63	Regarding supporting services such as air ducts and equipment foundations, etc.: Kindly clarify the scope of replacement or modification required.	The scope includes all modifications to ducts, pipework, valves, insulation, drainage, cabling, controls, equipment bases, supports, penetrations, fire stopping and finishes necessary for a complete, safe and operational installation. Existing services may be retained only after verification and approval.																																																																																																											
64	Does the scope include the replacement of the Access Control systems? Provide the exact device counts, current head-end controller specifications, and floor plan maps for the legacy access control systems requiring replacement across the Containers.	The Access control replacement system is part of the scope. The device count is 40.																																																																																																											
65	Section: List of Goods and Delivery Schedule (P93-99); Table 2.1.3 RENOVATION&EXPANSION SCHEME – ACCRA DATA CENTER (P105) Original Requirement: Section VII - Schedule of Requirements 1. List of Goods and Delivery Schedule <table><thead><tr><th rowspan="2">Line Item No.</th><th rowspan="2">Description of Goods</th><th rowspan="2">Quantity</th><th rowspan="2">Physical unit</th><th rowspan="2">Final (Project Site) Destination as specified in BBS</th><th colspan="3">Delivery (as per Incoterms Date)</th></tr><tr><th>Earliest Delivery Date</th><th>Latest Delivery Date</th><th>Bidder's offered Delivery date (to be provided by the Bidder)</th></tr></thead><tbody><tr><td>(Insert item No.)</td><td>(Insert description of item(s))</td><td>(Insert quantity of item to be supplied)</td><td>(Insert physical unit for the quantity)</td><td>(Insert place of Delivery)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td></tr><tr><td>1.28</td><td>90kW In-row Precision Air-Condition (PAC) for Habitat Room 1</td><td>1</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.23</td><td>90kW In-row Precision Air-Condition (PAC) for Habitat Room 2</td><td>1</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.22</td><td>90kW In-row Precision Air-Condition (PAC) for CPN Power Room 3</td><td>2</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.23</td><td>Smart R-PDU</td><td>272</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.29</td><td>DCIM upgrade and corresponding hardware</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.23</td><td>Monitoring system for all the rooms currently in use (C&BFT)</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.26</td><td>Access control system for all the rooms & make centrally in use (C&BFT)</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.33</td><td>Replace existing elevators and install elevator</td><td>1</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.28</td><td>Replace in-row Precision Air-Condition (PAC) 90kW for F3</td><td>30</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.28</td><td>Replace in-row Precision Air-Condition (PAC) 90kW for F4</td><td>30</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.30</td><td>Fire extinguishing system & fire alarm detection system for C&BFT</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr></tbody></table>	Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BBS	Delivery (as per Incoterms Date)			Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date (to be provided by the Bidder)	(Insert item No.)	(Insert description of item(s))	(Insert quantity of item to be supplied)	(Insert physical unit for the quantity)	(Insert place of Delivery)	(Insert the number of days following the date of effectiveness of the Contract)	(Insert the number of days following the date of effectiveness of the Contract)	(Insert the number of days following the date of effectiveness of the Contract)	1.28	90kW In-row Precision Air-Condition (PAC) for Habitat Room 1	1	pcs	Accra DC				1.23	90kW In-row Precision Air-Condition (PAC) for Habitat Room 2	1	pcs	Accra DC				1.22	90kW In-row Precision Air-Condition (PAC) for CPN Power Room 3	2	pcs	Accra DC				1.23	Smart R-PDU	272	pcs	Accra DC				1.29	DCIM upgrade and corresponding hardware	1	set	Accra DC				1.23	Monitoring system for all the rooms currently in use (C&BFT)	1	set	Accra DC				1.26	Access control system for all the rooms & make centrally in use (C&BFT)	1	set	Accra DC				1.33	Replace existing elevators and install elevator	1	pcs	Accra DC				1.28	Replace in-row Precision Air-Condition (PAC) 90kW for F3	30	pcs	Accra DC				1.28	Replace in-row Precision Air-Condition (PAC) 90kW for F4	30	pcs	Accra DC				1.30	Fire extinguishing system & fire alarm detection system for C&BFT	1	set	Accra DC				The entries relate to two separate data halls. Item 1.28 is 16 × 30 kW in-row PAC units for F3; Item 1.29 is 16 × 30 kW in-row PAC units for F4.
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	106Section VII - Schedule of Requirements <table><tr><th>No</th><th>Item</th><th>Unit</th><th>Quantity</th></tr><tr><td colspan="4">Device Replacement & System Upgrade</td></tr><tr><td>1.14</td><td>DCIM upgrade and corresponding hardware</td><td>Set</td><td>1</td></tr><tr><td>1.15</td><td>Monitoring system for all the rooms currently in use (GF&FF)</td><td>Set</td><td>1</td></tr><tr><td>1.16</td><td>Access control system for all the rooms & racks currently in use (GF&FF)</td><td>Set</td><td>1</td></tr><tr><td>1.17</td><td>Replace and retrofit existing elevator into a freight elevator.</td><td>pcs</td><td>1</td></tr><tr><td>1.18</td><td>Replace in-row Precision Air-Condition (PAC) 30KW for F3</td><td>pcs</td><td>16</td></tr><tr><td>1.19</td><td>Replace in-row Precision Air-Condition (PAC) 30KW for F3</td><td>pcs</td><td>16</td></tr></table> Questions to be Clarify: Items 1.28 and 1.29 in the List of Goods and Delivery Schedule both refer to PAC units for Room F3. Likewise, Items 1.18 and 1.19 in Table 2.1.3 RENOVATION & EXPANSION SCHEME – ACCRA DATA CENTER also denote PAC units for Room F3. Could you kindly advise whether this constitutes duplicate entries, or if they correspond to two separate machine rooms?	No	Item	Unit	Quantity	Device Replacement & System Upgrade				1.14	DCIM upgrade and corresponding hardware	Set	1	1.15	Monitoring system for all the rooms currently in use (GF&FF)	Set	1	1.16	Access control system for all the rooms & racks currently in use (GF&FF)	Set	1	1.17	Replace and retrofit existing elevator into a freight elevator.	pcs	1	1.18	Replace in-row Precision Air-Condition (PAC) 30KW for F3	pcs	16	1.19	Replace in-row Precision Air-Condition (PAC) 30KW for F3	pcs	16																																																																																																																	
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66	Section: List of Goods and Delivery Schedule (P95); Table 2.1.3 RENOVATION&EXPANSION SCHEME – ACCRA DATA CENTER (P106) Original Requirement: Section VII - Schedule of Requirements95 <table><tr><th colspan="8">1. List of Goods and Delivery Schedule</th></tr><tr><th>Line Item No.</th><th>Description of Goods</th><th>Quantity</th><th>Physical unit</th><th>Unit (Project Set) Description as specified in BIDs</th><th>Earliest Delivery Date</th><th>Latest Delivery Date</th><th>Bidder's offered Delivery date (to be provided by the Bidder)</th></tr><tr><td>(Insert item No.)</td><td>(Insert description of Goods)</td><td>(Insert quantity of item to be supplied)</td><td>(Insert physical unit for the quantity)</td><td>(Insert place of delivery)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td></tr><tr><td>1.1</td><td>In-row Precision Air-Condition (PAC)</td><td>24</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.2</td><td>IT Rack (1700mm x 1000mm x 1100mm) (for holding 5 racks of 18U) per rack to support AI computing, 1/2 normal IT Racks of 6U and 3 network Racks of 18U)</td><td>88</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.3</td><td>Acce system includes all components</td><td>2</td><td>sets</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.4</td><td>DCIM system (for racks & IT Room) (includes all hardware and software)</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.5</td><td>Integrate with the existing DCIM system</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.6</td><td>AC power distribution cabinet</td><td>8</td><td>sets</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.7</td><td>Monitoring System for F3</td><td>1</td><td>Set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.8</td><td>Smart IR PDU</td><td>118</td><td>pcs</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.9</td><td>Fire extinguishing system & fire alarm/detection system for F3 Room</td><td>1</td><td>Set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.10</td><td>UPS input distribution panel</td><td>2</td><td>sets</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.11</td><td>UPS output distribution panel</td><td>2</td><td>sets</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.12</td><td>500 kVA Substation (P4) (VRLA 500kva battery(1000V/4))</td><td>2</td><td>sets</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.13</td><td>Fireproofed lock for all racks</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.14</td><td>Rack Room</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr><tr><td>1.15</td><td>Lighting system of F3 Room</td><td>1</td><td>set</td><td>Accra DC</td><td></td><td></td><td></td></tr></table>	1. List of Goods and Delivery Schedule								Line Item No.	Description of Goods	Quantity	Physical unit	Unit (Project Set) Description as specified in BIDs	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date (to be provided by the Bidder)	(Insert item No.)	(Insert description of Goods)	(Insert quantity of item to be supplied)	(Insert physical unit for the quantity)	(Insert place of delivery)	(Insert the number of days following the date of effectiveness of the Contract)	(Insert the number of days following the date of effectiveness of the Contract)	(Insert the number of days following the date of effectiveness of the Contract)	1.1	In-row Precision Air-Condition (PAC)	24	pcs	Accra DC				1.2	IT Rack (1700mm x 1000mm x 1100mm) (for holding 5 racks of 18U) per rack to support AI computing, 1/2 normal IT Racks of 6U and 3 network Racks of 18U)	88	pcs	Accra DC				1.3	Acce system includes all components	2	sets	Accra DC				1.4	DCIM system (for racks & IT Room) (includes all hardware and software)	1	set	Accra DC				1.5	Integrate with the existing DCIM system	1	set	Accra DC				1.6	AC power distribution cabinet	8	sets	Accra DC				1.7	Monitoring System for F3	1	Set	Accra DC				1.8	Smart IR PDU	118	pcs	Accra DC				1.9	Fire extinguishing system & fire alarm/detection system for F3 Room	1	Set	Accra DC				1.10	UPS input distribution panel	2	sets	Accra DC				1.11	UPS output distribution panel	2	sets	Accra DC				1.12	500 kVA Substation (P4) (VRLA 500kva battery(1000V/4))	2	sets	Accra DC				1.13	Fireproofed lock for all racks	1	set	Accra DC				1.14	Rack Room	1	set	Accra DC				1.15	Lighting system of F3 Room	1	set	Accra DC				The correct F5 requirement is 4 × 300 kVA modular UPS units, with the operating configuration and 10-minute VRLA autonomy stated in the amended technical requirements. This supersedes the 2 × 500 kVA entry.
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	106Section VII - Schedule of Requirements <table><thead><tr><th>No.</th><th>Item</th><th>Unit</th><th>Quantity</th></tr></thead><tbody><tr><td colspan="4">1Device Replacement & System Upgrade</td></tr><tr><td>1.14</td><td>DCIM upgrade and corresponding hardware</td><td>Set</td><td>1</td></tr><tr><td>1.15</td><td>Monitoring system for all the rooms currently in use (GF&FF)</td><td>Set</td><td>1</td></tr><tr><td>1.16</td><td>Access control system for all the rooms & racks currently in use (GF&FF)</td><td>Set</td><td>1</td></tr><tr><td>1.17</td><td>Replace and retrofit existing elevator into a freight elevator.</td><td>pcs</td><td>1</td></tr><tr><td>1.18</td><td>Replace in-row Precision Air-Condition (PAC) 10kW for F3</td><td>pcs</td><td>16</td></tr><tr><td>1.19</td><td>Replace in-row Precision Air-Condition (PAC) 10kW for F3</td><td>pcs</td><td>16</td></tr><tr><td>1.20</td><td>Fire extinguishing system & fire alarm detection system for GF&FF</td><td>set</td><td>1</td></tr><tr><td colspan="4">2White Space (F5) Room 08 Rack Expansion</td></tr><tr><td>2.1</td><td>In-row Precision Air-Condition (PAC)</td><td>pcs</td><td>24</td></tr><tr><td>2.2</td><td>Rack (1200mm*900mm*2200mm) (52 IT racks (8 kW each), 8 AI computing racks (16 kW each), and 8 network racks (2 kW each))</td><td>pcs</td><td>60</td></tr><tr><td>2.3</td><td>Aisle system include all components</td><td>Set</td><td>2</td></tr><tr><td>2.4</td><td>DCIM system for aisle & F5 Room (includes all hardware and software)</td><td>Set</td><td>1</td></tr><tr><td>2.5</td><td>Integrate with the existing DCIM system.</td><td>Set</td><td>1</td></tr><tr><td>2.6</td><td>AC power distribution cabinet</td><td>pcs</td><td>4</td></tr><tr><td>2.7</td><td>Monitoring System for F5</td><td>Set</td><td>1</td></tr><tr><td>2.8</td><td>Smart R-PDU</td><td>pcs</td><td>136</td></tr><tr><td>2.9</td><td>Fire extinguishing system & fire alarm detection system for F5 Room</td><td>Set</td><td>1</td></tr><tr><td>2.10</td><td>UPS input distribution panel</td><td>pcs</td><td>2</td></tr><tr><td>2.11</td><td>UPS output distribution panel</td><td>pcs</td><td>2</td></tr><tr><td>2.12</td><td>300 KVA Modular UPS (VRLA 10 min backup, Input: 450KVA)</td><td>pcs</td><td>4</td></tr><tr><td>2.13</td><td>Fingerprint lock for all racks</td><td>Set</td><td>1</td></tr><tr><td>2.14</td><td>Raise floor</td><td>Set</td><td>1</td></tr><tr><td>2.15</td><td>Lighting system of F5 Room</td><td>Set</td><td>1</td></tr><tr><td>2.16</td><td>3-year maintenance support for system</td><td>Set</td><td>1</td></tr></tbody></table> Questions to be Clarify: 2.12 UPS specification in List of Goods and Delivery Schedule(P95) is different with 2.12 in 2.1.3 RENOVATION&EXPANSION SCHEME – ACCRA DATA CENTER (P106), which one is the correct requirement?	No.	Item	Unit	Quantity	1Device Replacement & System Upgrade				1.14	DCIM upgrade and corresponding hardware	Set	1	1.15	Monitoring system for all the rooms currently in use (GF&FF)	Set	1	1.16	Access control system for all the rooms & racks currently in use (GF&FF)	Set	1	1.17	Replace and retrofit existing elevator into a freight elevator.	pcs	1	1.18	Replace in-row Precision Air-Condition (PAC) 10kW for F3	pcs	16	1.19	Replace in-row Precision Air-Condition (PAC) 10kW for F3	pcs	16	1.20	Fire extinguishing system & fire alarm detection system for GF&FF	set	1	2White Space (F5) Room 08 Rack Expansion				2.1	In-row Precision Air-Condition (PAC)	pcs	24	2.2	Rack (1200mm*900mm*2200mm) (52 IT racks (8 kW each), 8 AI computing racks (16 kW each), and 8 network racks (2 kW each))	pcs	60	2.3	Aisle system include all components	Set	2	2.4	DCIM system for aisle & F5 Room (includes all hardware and software)	Set	1	2.5	Integrate with the existing DCIM system.	Set	1	2.6	AC power distribution cabinet	pcs	4	2.7	Monitoring System for F5	Set	1	2.8	Smart R-PDU	pcs	136	2.9	Fire extinguishing system & fire alarm detection system for F5 Room	Set	1	2.10	UPS input distribution panel	pcs	2	2.11	UPS output distribution panel	pcs	2	2.12	300 KVA Modular UPS (VRLA 10 min backup, Input: 450KVA)	pcs	4	2.13	Fingerprint lock for all racks	Set	1	2.14	Raise floor	Set	1	2.15	Lighting system of F5 Room	Set	1	2.16	3-year maintenance support for system	Set	1	
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67	Section: List of Goods and Delivery Schedule (P97); Clause 4.3.9 BMC Switch under Section VII – Schedule of Requirements (P163) Original Requirement:	Yes. ‘BMS Switch’ in Item 4.12 is a typographical error. The correct description is ‘BMC Switch for Cloud Infrastructure’, quantity 2.																																																																																																								

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	Section VII – Schedule of Requirements 97 I. List of Goods and Delivery Schedule <table><tr><th rowspan="2">Line Item No.</th><th rowspan="2">Description of Goods</th><th rowspan="2">Quantity</th><th rowspan="2">Physical unit</th><th rowspan="2">Final (Product) Unit Description as specified in HHS</th><th colspan="3">Delivery (as per Incoterms) Date</th></tr><tr><th>Earliest Delivery Date</th><th>Latest Delivery Date</th><th>Supplier's offered Delivery date (as provided by the Bidder)</th></tr><tr><td>(Insert item No.)</td><td>(Insert description of Goods)</td><td>(Insert quantity of item or to be supplied)</td><td>(Insert physical unit for the quantity)</td><td>(Insert phrase of Delivery)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td></tr><tr><td>4-4</td><td>Cloud Network Service</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-7</td><td>Cloud Management Service</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-6</td><td>Security Load for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-7</td><td>Firewall for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-8</td><td>Spam Switch for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-9</td><td>Management Load Switch for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-10</td><td>Network Load Switch for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-11</td><td>Gateway Load for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-12</td><td>RAM Switch for Cloud Infrastructure</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-13</td><td>Composing Load Switch for AI Environment</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr><tr><td>4-14</td><td>AI POC Load Switch for AI Environment</td><td>3</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr></table>	Line Item No.	Description of Goods	Quantity	Physical unit	Final (Product) Unit Description as specified in HHS	Delivery (as per Incoterms) Date			Earliest Delivery Date	Latest Delivery Date	Supplier's offered Delivery date (as provided by the Bidder)	(Insert item No.)	(Insert description of Goods)	(Insert quantity of item or to be supplied)	(Insert physical unit for the quantity)	(Insert phrase of Delivery)	(Insert the number of days following the date of effectiveness of the Contract)	(Insert the number of days following the date of effectiveness of the Contract)	(Insert the number of days following the date of effectiveness of the Contract)	4-4	Cloud Network Service	3	pcs	Access DC				4-7	Cloud Management Service	3	pcs	Access DC				4-6	Security Load for Cloud Infrastructure	3	pcs	Access DC				4-7	Firewall for Cloud Infrastructure	3	pcs	Access DC				4-8	Spam Switch for Cloud Infrastructure	3	pcs	Access DC				4-9	Management Load Switch for Cloud Infrastructure	3	pcs	Access DC				4-10	Network Load Switch for Cloud Infrastructure	3	pcs	Access DC				4-11	Gateway Load for Cloud Infrastructure	3	pcs	Access DC				4-12	RAM Switch for Cloud Infrastructure	3	pcs	Access DC				4-13	Composing Load Switch for AI Environment	3	pcs	Access DC				4-14	AI POC Load Switch for AI Environment	3	pcs	Access DC				
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68	Section: List of Goods and Delivery Schedule (P98); Table 2.1.4 RENOVATION SCHEME – KUMASI DATA CENTER(P107) Original Requirement:	The correct Kumasi requirement is 3 × 200 kVA modular UPS units (300 kVA frame/rack capacity), including VRLA battery systems providing the specified autonomy. This supersedes the single 90 kVA entry.																																																																																																																		

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	Section VII - Schedule of Requirements 107 1. List of Goods and Delivery Schedule <table><tr><th>Line Item No.</th><th>Description of Goods</th><th>Quantity</th><th>Physical Unit</th><th>Unit (Project Name) Description as specified in SOW</th><th>Earliest Delivery Date</th><th>Latest Delivery Date</th><th>Supplier's offered Delivery time (as provided in the Bidder)</th></tr><tr><td>Support Item</td><td>Support description of Goods</td><td>Support quantity of items to be supplied</td><td>Support physical unit for the quantity</td><td>Support price of Delivery</td><td>Support the number of days following the date of effectiveness of the Contract</td><td>Support the number of days following the date of effectiveness of the Contract</td><td>Support the number of days following the date of effectiveness of the Contract</td></tr><tr><td>6.2</td><td>Supporting services such as air ducts and equipment foundation, etc.</td><td>1</td><td>set</td><td>Support DC</td><td></td><td></td><td></td></tr><tr><td>6.3</td><td>300KVA UPS (Module UPS, Unit Rack Capacity 300KVA) including battery system VRLA 10min backup time @ 10min</td><td>1</td><td>pcs</td><td>Support DC</td><td></td><td></td><td></td></tr><tr><td>6.4</td><td>3 years maintenance support for UPS</td><td>1</td><td>set</td><td>Support DC</td><td></td><td></td><td></td></tr><tr><td>6.5</td><td>Smart R-PDU for IT equipment</td><td>64</td><td>pcs</td><td>Support DC</td><td></td><td></td><td></td></tr><tr><td>6.6</td><td>DCIM system for IT equipment</td><td>1</td><td>set</td><td>Support DC</td><td></td><td></td><td></td></tr><tr><td>6.7</td><td>3 years maintenance support for DCIM and R-PDU system</td><td>1</td><td>set</td><td>Support DC</td><td></td><td></td><td></td></tr></table> Section VII - Schedule of Requirements 107 <table><tr><th>No</th><th>Item</th><th>Unit</th><th>Quantity</th></tr><tr><td>1</td><td>Device Replacement & System Upgrade</td><td></td><td></td></tr><tr><td>2.17</td><td>Accra central system for F5</td><td>Set</td><td>1</td></tr><tr><td>2.18</td><td>Smart screen 1.14 inch</td><td>pcs</td><td>2</td></tr><tr><td>2.19</td><td>Smart screen 18 inch</td><td>pcs</td><td>18</td></tr></table> 2.1.4 RENOVATION SCHEME – KUMASI DATA CENTER: <table><tr><th>No</th><th>Item</th><th>Unit</th><th>Quantity</th></tr><tr><td colspan="4">Cooling system</td></tr><tr><td>1</td><td>DX Integrated air conditioner for IT Room and Power room</td><td>Set</td><td>1</td></tr><tr><td>2</td><td>Supporting services such as air ducts and equipment foundation, etc.</td><td>Set</td><td>1</td></tr><tr><td colspan="4">Power Supply Container</td></tr><tr><td>1</td><td>300KVA UPS (Module UPS, Unit Rack Capacity 300KVA) including battery system VRLA 10min backup time @ 10min</td><td>pcs</td><td>1</td></tr><tr><td>2</td><td>UPS Input & Output Cabinets</td><td>Set</td><td>1</td></tr><tr><td>3</td><td>3 years maintenance support for system</td><td>Set</td><td>1</td></tr><tr><td colspan="4">IT Container</td></tr><tr><td>1</td><td>Smart R-PDU</td><td>pcs</td><td>64</td></tr><tr><td>2</td><td>DCIM system</td><td>Set</td><td>1</td></tr><tr><td>3</td><td>3 years maintenance support for system</td><td>Set</td><td>1</td></tr></table> Questions to be Clarify: 6.3 UPS specification in List of Goods and Delivery Schedule(P98) is different with UPS specification in 2.1.4 RENOVATION SCHEME – KUMASI DATA CENTER (P107), which one is the correct requirement?	Line Item No.	Description of Goods	Quantity	Physical Unit	Unit (Project Name) Description as specified in SOW	Earliest Delivery Date	Latest Delivery Date	Supplier's offered Delivery time (as provided in the Bidder)	Support Item	Support description of Goods	Support quantity of items to be supplied	Support physical unit for the quantity	Support price of Delivery	Support the number of days following the date of effectiveness of the Contract	Support the number of days following the date of effectiveness of the Contract	Support the number of days following the date of effectiveness of the Contract	6.2	Supporting services such as air ducts and equipment foundation, etc.	1	set	Support DC				6.3	300KVA UPS (Module UPS, Unit Rack Capacity 300KVA) including battery system VRLA 10min backup time @ 10min	1	pcs	Support DC				6.4	3 years maintenance support for UPS	1	set	Support DC				6.5	Smart R-PDU for IT equipment	64	pcs	Support DC				6.6	DCIM system for IT equipment	1	set	Support DC				6.7	3 years maintenance support for DCIM and R-PDU system	1	set	Support DC				No	Item	Unit	Quantity	1	Device Replacement & System Upgrade			2.17	Accra central system for F5	Set	1	2.18	Smart screen 1.14 inch	pcs	2	2.19	Smart screen 18 inch	pcs	18	No	Item	Unit	Quantity	Cooling system				1	DX Integrated air conditioner for IT Room and Power room	Set	1	2	Supporting services such as air ducts and equipment foundation, etc.	Set	1	Power Supply Container				1	300KVA UPS (Module UPS, Unit Rack Capacity 300KVA) including battery system VRLA 10min backup time @ 10min	pcs	1	2	UPS Input & Output Cabinets	Set	1	3	3 years maintenance support for system	Set	1	IT Container				1	Smart R-PDU	pcs	64	2	DCIM system	Set	1	3	3 years maintenance support for system	Set	1	
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3	3 years maintenance support for system	Set	1																																																																																																																																			
69	Item "2.16 - 3-year maintenance support for system" (P96) under the entry titled Accra Data Center Upgrade (White Space (F5) Room 68 Racks Expansion) in the List of Goods and Delivery Schedule is identical to Item "2.16 - 3-year maintenance support for system" specified in Table 2.1.3 RENOVATION & EXPANSION SCHEME – ACCRA DATA CENTER. (P106)	‘System’ under Item 2.16 means all systems supplied and installed for the F5 68-rack expansion, including UPS and power distribution, cooling/PAC, racks and containment, DCIM and associated monitoring, security, fire-protection interfaces, cabling and integration. The maintenance price shall cover the complete F5 expansion solution																																																																																																																																				

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List of Goods and Delivery Schedule <table> <tr> <th>Line Item No.</th><th>Description of Goods</th><th>Quantity</th><th>Physical unit</th><th>Unit (Product Size) Description as specified in RFQ</th><th>Delivery (as per Installation) Date</th><th>Delivery (as per Installation) Date</th><th>Delivery (as per Installation) Date</th></tr> <tr> <td>(Insert item No.)</td><td>(Insert description of Goods)</td><td>(Insert quantity of goods to be supplied)</td><td>(Insert physical unit for the)</td><td>(Insert place of Delivery)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td><td>(Insert the number of days following the date of effectiveness of the Contract)</td></tr> <tr> <td>1.06</td><td>3-year maintenance support for system</td><td>1</td><td>Set</td><td>Access DC</td><td></td><td></td><td></td></tr> <tr> <td>1.07</td><td>Access control (ICR) for F3</td><td>1</td><td>Set</td><td>Access DC</td><td></td><td></td><td></td></tr> <tr> <td>1.08</td><td>Smart access (16 inch)</td><td>1</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr> <tr> <td>1.09</td><td>Smart access (6 inch)</td><td>10</td><td>pcs</td><td>Access DC</td><td></td><td></td><td></td></tr> <tr> <td>1.10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> 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<td>1.94</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.95</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.96</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.97</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.98</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.99</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.02</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.03</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.04</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.05</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.06</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.07</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.08</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.09</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.19</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.21</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.22</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.23</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.24</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.27</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.28</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.29</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.31</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.32</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.33</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.34</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.36</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.37</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.38</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.39</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.41</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.42</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.43</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.44</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.46</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.47</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.48</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.49</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.51</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.52</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.53</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.54</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.55</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.56</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.57</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.58</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.59</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.61</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.62</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.63</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.64</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.65</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.66</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.67</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.68</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.69</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.71</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.72</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.73</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.75</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.76</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.77</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.79</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.80</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.81</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.82</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.83</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.84</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.85</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.86</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.87</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.88</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.89</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.90</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.91</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.92</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.93</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.94</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.95</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.96</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.97</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.98</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2.99</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.01</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.02</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.03</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.04</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.05</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.06</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.07</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.08</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.09</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.16</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.19</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.21</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.22</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.23</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.24</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.27</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.28</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.29</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.31</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.32</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.33</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.34</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.35</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.36</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.37</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.38</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.39</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.41</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.42</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.43</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.44</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.46</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.47</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.48</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.49</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.50</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.51</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.52</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.53</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.54</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.55</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.56</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.57</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.58</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.59</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.61</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.62</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.63</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.64</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.65</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.66</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.67</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.68</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.69</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.71</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.72</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.73</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.74</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.75</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.76</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.77</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.78</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.79</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3.80</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> 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	Questions to be Clarify: Please clarify the specific scope covered by the term "system". Does it refer to the UPS system and DCIM System?																																																																									
70	Items 6.4 and 6.7 (P98) of the List of Goods and Delivery Schedule set out detailed scope for the three-year maintenance support, while no relevant details are specified in Table 2.1.4 RENOVATION SCHEME – KUMASI DATA CENTER (P107). Please confirm whether the scope under Table 2.1.4 is consistent with that of Items 6.4 and 6.7. 10 Section VI – Schedule of Requirements 1. List of Goods and Delivery Schedule <table><tr><th>Line Item No.</th><th>Description of Goods</th><th>Quantity</th><th>Physical unit</th><th>Plant (Project Site) Destination as specified in RfS</th><th colspan="3">Delivery (in per. Installments) Date</th></tr><tr><th></th><th></th><th></th><th></th><th></th><th>Earliest Delivery Date</th><th>Latest Delivery Date</th><th>Bidder's offered Delivery date (in its proposal by the Bidder)</th></tr><tr><th>[Insert item No.]</th><th>[Insert description of Goods]</th><th>[Insert quantity of item to be supplied]</th><th>[Insert physical unit for the quantity]</th><th>[Insert place of Delivery]</th><th>[Insert the number of days following the date of effectiveness of the Contract]</th><th>[Insert the number of days following the date of effectiveness of the Contract]</th><th>[Insert the number of days following the date of effectiveness of the Contract]</th></tr><tr><td>6.2</td><td>Supporting services such as air ducts and equipment foundation, etc.</td><td>1</td><td>Set</td><td>Kumasi DC</td><td></td><td></td><td></td></tr><tr><td>6.3</td><td>90KVA UPS/VRLA 10 year/backup time (P98/6.4)</td><td>1</td><td>pcs</td><td>Kumasi DC</td><td></td><td></td><td></td></tr><tr><td>6.6</td><td>3 years maintenance support for UPS</td><td>1</td><td>set</td><td>Kumasi DC</td><td></td><td></td><td></td></tr><tr><td>6.7</td><td>Smart R-PDU for IT equipment</td><td>1</td><td>pcs</td><td>Kumasi DC</td><td></td><td></td><td></td></tr><tr><td>6.8</td><td>DC IM system for IT equipment</td><td>1</td><td>set</td><td>Kumasi DC</td><td></td><td></td><td></td></tr><tr><td>6.7</td><td>3 years maintenance support for DC IM and R-PDU system</td><td>1</td><td>set</td><td>Kumasi DC</td><td></td><td></td><td></td></tr></table>	Line Item No.	Description of Goods	Quantity	Physical unit	Plant (Project Site) Destination as specified in RfS	Delivery (in per. Installments) Date								Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date (in its proposal by the Bidder)	[Insert item No.]	[Insert description of Goods]	[Insert quantity of item to be supplied]	[Insert physical unit for the quantity]	[Insert place of Delivery]	[Insert the number of days following the date of effectiveness of the Contract]	[Insert the number of days following the date of effectiveness of the Contract]	[Insert the number of days following the date of effectiveness of the Contract]	6.2	Supporting services such as air ducts and equipment foundation, etc.	1	Set	Kumasi DC				6.3	90KVA UPS/VRLA 10 year/backup time (P98/6.4)	1	pcs	Kumasi DC				6.6	3 years maintenance support for UPS	1	set	Kumasi DC				6.7	Smart R-PDU for IT equipment	1	pcs	Kumasi DC				6.8	DC IM system for IT equipment	1	set	Kumasi DC				6.7	3 years maintenance support for DC IM and R-PDU system	1	set	Kumasi DC				Yes. The maintenance scope in the Kumasi renovation table is the same as Items 6.4 and 6.7: three-year maintenance support for the UPS/battery system and for the DCIM and smart R-PDU system, including OEM support, preventive and corrective maintenance, updates, spares and reporting.
Line Item No.	Description of Goods	Quantity	Physical unit	Plant (Project Site) Destination as specified in RfS	Delivery (in per. Installments) Date																																																																					
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	Section VII - Schedule of Requirements107 <table><tr><th>No</th><th>Item</th><th>Unit</th><th>Quantity</th></tr><tr><td>1</td><td colspan="3">Device Replacement & System Upgrade</td></tr><tr><td>2.17</td><td>Access control system For F3</td><td>Set</td><td>1</td></tr><tr><td>2.18</td><td>Smart screen 138 inch</td><td>pcs</td><td>2</td></tr><tr><td>2.19</td><td>Smart screen 80 inch</td><td>pcs</td><td>10</td></tr></table> 2.1.4 RENOVATION SCHEME – KUMASI DATA CENTER: <table><tr><th>No</th><th>Item</th><th>Unit</th><th>Quantity</th></tr><tr><td colspan="4">Cooling system</td></tr><tr><td>1</td><td>DX Integrated air conditioner for IT Room and Power room</td><td>Set</td><td>1</td></tr><tr><td>2</td><td>Supporting services such as air ducts and equipment foundation, etc.</td><td>Set</td><td>1</td></tr><tr><td colspan="4">Power Supply Container</td></tr><tr><td>1</td><td>200KVA UPS (Module UPS, Unit Rack Capacity 100KVA) including battery system VRLA 10min backup time @ 10min</td><td>pcs</td><td>3</td></tr><tr><td>2</td><td>UPS Input & Output Cabinets</td><td>Set</td><td>1</td></tr><tr><td>3</td><td>3 years maintenance support for system</td><td>Set</td><td>1</td></tr><tr><td colspan="4">IT Container</td></tr><tr><td>1</td><td>Smart R-PDU</td><td>pcs</td><td>84</td></tr><tr><td>2</td><td>DCIM system</td><td>Set</td><td>1</td></tr><tr><td>3</td><td>3 years maintenance support for system</td><td>Set</td><td>1</td></tr></table> Section: 4.4.2 SUPPLY, INSTALLATION, AND COMMISSIONING (P115) Original Requirement: The bidder must complete equipment production and transportation to Ghana within 28 WEEKs. Questions to be Clarify: When does the 28-week delivery time start to be calculated, and does it begin after the equipment arrives?	No	Item	Unit	Quantity	1	Device Replacement & System Upgrade			2.17	Access control system For F3	Set	1	2.18	Smart screen 138 inch	pcs	2	2.19	Smart screen 80 inch	pcs	10	No	Item	Unit	Quantity	Cooling system				1	DX Integrated air conditioner for IT Room and Power room	Set	1	2	Supporting services such as air ducts and equipment foundation, etc.	Set	1	Power Supply Container				1	200KVA UPS (Module UPS, Unit Rack Capacity 100KVA) including battery system VRLA 10min backup time @ 10min	pcs	3	2	UPS Input & Output Cabinets	Set	1	3	3 years maintenance support for system	Set	1	IT Container				1	Smart R-PDU	pcs	84	2	DCIM system	Set	1	3	3 years maintenance support for system	Set	1	The 28-week period starts on the date of Contract signing and covers the whole project delivery timelines including equipment production and transportation/delivery to Ghana, installation, migration, integration, testing, commissioning and training. This means the whole contract from contract signature is expected to be delivered in 28 weeks.
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3	3 years maintenance support for system	Set	1																																																																			
71	The tender covers an extensive scope of supplies, including delivery of various sophisticated products such as DCF equipment, EOX network replacement hardware and AI-related facilities. Could you please specify the applicable acceptance criteria for these goods?	Acceptance will require successful delivery inspection, OEM/document verification, installation checks, FAT/SAT as applicable, configuration and integration testing, performance/capacity tests, resilience and failover tests, security testing, migration/UAT, training and handover of licenses, warranties, manuals, configurations and as-built documentation. No critical or high-severity defect may remain open at final acceptance.																																																																				
72	Section: Section II - Bid Data Sheet (BDS), ITB 16.4 Original Requirement: Period of time the Goods are expected to be functioning (for the purpose of spare parts): six (6) years Questions to be Clarify: Per general understanding, this requirement specifically means that the equipment will not reach EOS (End of Service) within 6 years, and that spare parts will be available. Kindly confirm.	Confirmed in principle. The equipment shall remain OEM-supported and shall not reach End of Support/Service during the six-year period from acceptance, and compatible spare parts shall remain available throughout that period. The contracted support and O&M service remains three years. Fixed spare-parts pricing for years 4–6 is not required unless expressly included in the Price Schedules; bidders shall provide OEM lifecycle/support evidence.																																																																				