Clarification to Bid

OCB No. and Title: PMD/DLSD/ETDSP/DRCP–081/82 – 01"Design, Supply, Installation and Commissioning of Disaster Recovery Centre (DRC), Private Cloud Infrastructure and Data Center Interconnect (DCI)"

Pursuant to ITB Clause number 7 Clarification-I has been issued. All the bidders are requested to collect the hard copy of Clarification -I from Project office. This Clarification-I shall be a part of bidding document and failure to collect the same shall be at the risk of the bidder. Clarification-I consists of the following

Sr.No.	RFP Section / Area	Bid Requirement	Questionnaire/ Clarification Required	Response
1	Project Specific Requirement (PSR)	2.1.1 The DRC building is intended to be prefabricated modular (container type) structured 2 storeyed building, to house the DRC, office area, NOC and infrastructure for Disaster Recovery Centre (DRC). The design shall be such that it can be scaled to 3 storied building and no infrastructures shall be mounted at the top of the building. 2.1.2 The DRC building is required to be constructed as per implementation project	Do we need to submit any 3rd party certificate to prove that the building can be extended upto 3rd Floor ?	**Detailed Building Design Calculation Report should be provided by the successful bidder before implementation (during the design phase for approval). OEM should provide certificate to prove that the building can be extended up to 3rd Floor shall be provided during bid submission.**
2	Project Specific Requirement (PSR)	5.2 Meteorological data: b) Ambient Air Temperature: 10 ºC (minimum) to 45ºC (maximum) However, for design purposes, ambient temperature should be considered as 50 degree centigrade and Relative humidity 100%.	- Does the PAC indoor/Outdoor unit calculation need to be based on 50 degree centigrade? - Do the actual AC also need to be based on 50 degree centigrade? - As per official ashare data, we can see that the last 20 years maximum temp. is 44.5 degree centigrades. Can the design be based on ashare data?	**As per RFP**
3	Technical Specification: IT Infra, Cloud & DCI	Basic technical requirements are as follows: Total 60 racks (54 IT racks and 6 network racks) each IT racks power design for 10kW, network rack 7 kW	Based on the theory of DC and DR, the capacity of DR should be Less than or Equal to DC. Based on the calculation of Switch and servers, the capacity of the DR can be of 7KW/IT rack and Network with 5Kw/Rack with 40+20 Racks expansion basis can comply the requirement, whether this solution can be accepted?	**As per RFP**

4	Technical Specification: IT Infra, Cloud & DCI	1.1.18 Facilities to be provided by NEA NEA shall provide dark core OPGW cable between DC and DRC site through redundant path (Path I: -Kathmandu-Hetauda-Bharatpur-Butwal and Path II: - Kathmandu-Marsyandi PH-Pokhara-Kaligandaki-Butwal, Path-III: - 220 kV Line from Kathmandu-Marsyangdi S/S Bharatpur S/S to New Butwal S/S). Note: Bidder shall consider two Path only during design phase.	- For Butwal to Bharapur, is there separate fiber? - Can we assume that: > New Butwal – Bharapur (117km, 35.1dB loss)-Marsyangdi (27km 7.43dB loss)-Syuachatar(86km,23.65dB loss) > Bharatpur-Hetauda(76km 22.9dBloss)-Syuachatar(45km 13.5dBloss)? - As the distance from Bharapur to New Butwal is more than 100km, is it possible to change Bharapur to kawasoti to improve fiber transmission performance?	**- Yes. There are 2 pair of fibers.** **- Possible, as per proposed design** **- Possible, as per proposed design**
5	Project Specific Requirement (PSR)	Communication network establishment between Data Centre (KTM) to DRC (Butwal) site using DWDM technology. NEA shall provide 2 core optical fiber but all other necessary DWDM equipment, amps, patch cables and related accessories shall be provided by the bidder	Currently, 1 main path and 1 redundant path and 4 sets of main equipment are included in the tender. However, 2 core fiber is not enough. Does NEA going to provide enough fiber resources?	**In total 4 core (2 cores in each path) fibers will be provided. Solution should be based on 2 core.**
6	Technical Specifications -Data centres communication infrastructure specifications	6.2.8 Data centres communication infrastructure specifications Proposed Equipment should have 2*200G cards and the same should be populated with optical modules from day one.	- What kind of services are required from client sides and line sides, Is it "4*100GE for client sides, 2*200GE for Line side" for each link? - And Is NMS required or will use the existing NMS from NEA DCC **?**	**Yes** **-As per RFP**
7	Project Specific Requirement (PSR)	Supply, Delivery, Installation and Integrating proposed NEA Private Cloud with existing systems (like Private Cloud operating in NEA existing Data Centre with the Virtual Machines and others), setting up secure access controls, efficient and reliable Disaster Recovery Centre (DRC) operations and NEA Private Cloud supply deployment and maintaining operations including thorough testing to ensure data integrity and availability on Private Cloud.	The spec states that the need to integrate the new private cloud with "existing systems" . To clarify the integration scope for the NEA Private Cloud, please confirm whether the solution must explicitly interface with specific existing storage and server models (e.g., current SAN/NAS arrays, server brands/models) in the NEA Data Centre, and if the current idle/on-premise resources (e.g., unutilized servers, storage) must be incorporated into the new platform?	**Yes, NEA currently have Dell VM, Huawei system and Nutanix HCI , Bidder can propose the proper hybrid integration solution that orchestrates all exisiting systems, Interested bidder can visit the site if required.**

8	Technical Specifications-Technical Specifications for DC and DR Virtualization-Storage Pool	Storage Pool Capacity: For DC: At least 200TB Usable Capacity with NVMe SSD, at least 500 TB Usable Capacity with SAS SSD, at least 500 TB Usable Capacity with NL-SAS across All Private Cloud and at least 200 TB of NL-SAS should be reserved for backup. For DR: At least 200TB Usable Capacity with NVMe SSD, at least 500 TB Usable Capacity with SAS SSD, at least 500 TB Usable Capacity with NL-SAS across All Private Cloud and at least 200 TB of NL-SAS should be reserved for backup. Storage disks should be hot swappable and field replaceable The Contractor / System Integrator should provide backup capacity licenses for 200 TB.	The requirement states that the need for minimum 200TB (NVMe SSD) and 500TB SAS SSD and 500TB NL-SAS of usable capacity, with additional requirements for backup. However, the term Usable Capacity is not explicitly defined in the document. To ensure accurate design and compliance, we kindly request confirmation on the following: 1.RAID Configuration: For the specified Usable Capacity, is the calculation based on a specific RAID level (e.g., RAID 5, RAID 6, RAID 10) ? If so, please confirm the RAID configuration (e.g., "based on RAID 6 "). 2.Impact of Data Reduction Technologies: Does the Usable Capacity factors in the effects of data deduplication and compression? Please specify whether the required capacity (e.g., 500TB NL-SAS) is pre- or post-dedupe/compression.	**1. RAID Configuration should be minimum RAID 6 (Bidder to meet the usable capacity)** **2. Required capacity is Post-deduplication/compression.**
9	Technical Specifications-Technical Specifications for DC and DR Virtualization-Storage Pool	Enterprise storage (1024 TB)	We have identified a discrepancy in the enterprise storage capacity specifications between the following documents: DRCP Volume II (Private Cloud Solution Requirements, Page 171): The current total storage capacity is minimum 200TB (NVMe SSD) and 500TB SAS SSD and 500TB NL-SAS and additional 200TB for backup; Means 1400TB in total; DRCP Volume III (Price Schedule, Page 1): The document explicitly states "Enterprise storage (1024 TB)" To ensure project alignment, please confirm: If the 1024 TB specification in Volume III is correct? Please clarify whether Volume II contains an outdated or incorrect value.	**Bidder should prevail Enterpise Storate (1024 TB) mentioned in Volume-III**

10	Technical Specifications-Technical Specifications for DC and DR Virtualization-Private Cloud Solution Requirements	The Private Cloud solution should include Hypervisor License.	According to our current solution design, the virtualization software in the private cloud architecture will be licensed under a subscription model. Could NEA clarify its perspective on future licensing fees for this component? Specifically: Does NEA prefer a perpetual license model or does subscription is acceptable? Are there any predefined budget or policy constraints for ongoing virtualization software costs? Will future upgrades/patches require additional licensing approvals or charges?	**The following requirements apply to the hypervisor license component of the private cloud solution:** **1. Permanent License:** **The hypervisor license must be a perpetual (one-time) license, with full ownership transferred to NEA upon deployment.** **The vendor must not impose recurring licensing fees for core hypervisor usage after the initial delivery.** **2. Software Subscription and Support (SNS):** **The vendor should include the cost of SNS subscription and support in AMC/FMS period for any upgrades, patches, and technical support,training etc** **3. Legal Compliance:** **NEA will retain the right to use the hypervisor license legally and indefinitely.** **The vendor must ensure no contractual or technical restrictions prevent NEA from using the licensed hypervisor in compliance with laws and licenses even if SNS is not purchased.**

11	Technical Specifications-Technical Specifications for DC and DR Virtualization-Private Cloud Solution Requirements	The Cloud Solution needs to facilitate cross-region Disaster Recovery (DR) for management components, allowing seamless transition of the management console between the production site and the DR site, as well as vice versa, through a one-click operation, while ensuring uninterrupted service availability.	To ensure alignment on the cross-region Disaster Recovery (DR) and seamless transition requirements for the management components of the private cloud platform, we seek clarification on the following: 1 . DR Mode: Please clarify the meaning of "seamless transition", does it means using active/standby model to achieve the DR of management components? 2. RPO and RTO Requirements: What are the Recovery Point Objective (RPO) and Recovery Time Objective (RTO) for the management components? For example, does the design require RPO of 1 minutes, etc., and RTO measured in minutes/seconds?	**As per amendment**
12	Technical Specifications-Technical Specifications for DC and DR Virtualization-Minimum Network Interface	The switch should support PFC (Priority-based Flow Control), RDMA and RoCE	is it possible for the switch to support either only PFC (Priority-based Flow Control) or RDMA or RoCE?	**As per RFP**
13	Technical Specification: IT Infra, Cloud & DCI-Firewall	The Proposed Firewall (NGFW) appliance/OS shall be EAL4 and ICSA certified.	Since both the EAL and ICSA Labs certifications under Common Standards are the same type of certifications for firewall security and assurance levels, is it possible to provide either only EAL4 or ICSA certification?	**Acceptable**
14	Technical Specification: IT Infra, Cloud & DCI-O&M-Helpdesk	Help Desk	Does bidder need to provide helpdesk software to the employer ? Please clarify	**As per RFP**
15	Technical Specification: IT Infra, Cloud & DCI-O&M-NMS	Network Monitoring & Management	Does bidder need to provide NMS software to the employer ? Please clarify	**Yes, it is also mentioned clearly in the RFP. The proposed NMS should be able to monitor the entire proposed network including DC, DRC and the DWDM infrastruture solution.**
16	Project Specific Requirement (PSR)		We request to share the existing and new Site topography, including the details of NEA existing building with road connectivity & MEP services network for better planning	**As per RFP** **(refer V-II, PSR, Pg.No.7-The bidders are advised to visit the disaster recovery project sites and acquaint themselves with the topography, infrastructure and also the design philosophy.)**

17	Project Specific Requirement (PSR)		We understand the 2 storeyed building is a Container based pre fabricated 2 storeyed structure (ie It is not a conventional building- RCC or Pre-fab steel). Please confirm our understanding.	**As per RFP**
18	Technical Specification: IT Infra, Cloud & DCI		Kindly share schematic and architectural drawing for telecom system	**As per RFP- (V-II, 1.4, Pg No.20) Technical communication architecture design & documents to be submitted by the bidder after the award of the project**
19	Technical Specification: IT Infra, Cloud & DCI		kidly confirm location of DWDM room.	**In the DC and DRC building, Location to be proposed by the bidder**
20	General		Kindly confirm if we can propose makes as listed below. UPS- Schneider/Eaton/Riello/Delta. Cooling- Climaveneta/ Flakt/ Stulz/ Carrier. Cables- KEI/ Polycab/ Finolex/ Apar. LT panels- Standrar TTA (type tested assembly IEC 61439). Switchgear- Schneider/ ABB/ Siemens. DG- Sterling generators/ Cummins. CCTV- Honeywell/ HANWHA. WLD, RRS- C system FAS- Siemens/ Honeywell/ JCI Access control- Ismart/ Honey well. FSS- Swastik/ JCI.	**As per RFP**
21	Technical Specification: Civil & Electrical Works		"Travel stops: 2 (2 floors with 4.15m height per floor)". Since it mentions that in future there could be a third floor, should we plan elevator for two storeyed or three storeyed building. Loading capacity of elevator mentioned in Volume II is 2000kg and in NEA project details it is mentioned as 3000kg. Please clarify.	**1. All technical aspects of the Lift design should be considering the scalability of the floors from 2 to 3 storeyed.** **2. 2000 kg.**
22	Technical Specification: Civil & Electrical Works		Please confirm whether we should consider GI or PPR pipes for the internal water supply.	**As per RFP, V-II, Technical Specification: IT Infra, Cloud & DCI , Pt No. 2.1.6, pg.No. 34**
23	Technical Specification: Civil & Electrical Works		Please confirm whether we should consider GI or PPR pipes for the External water supply.	**As per RFP, V-II, Technical Specification: IT Infra, Cloud & DCI , Pt No. 2.1.6, pg.No. 34**

24	Technical Specification: Civil & Electrical Works		Kindly provide the make list and cut sheets for the sanitary system.	**As per RFP**
25	Technical Specification: Civil & Electrical Works		We presume source of water will be available from existing pump room.	**Bidder shall be responsible for site survey and check site requirement.**
26	Technical Specification: Civil & Electrical Works		Kindly provide layout and pump room details for tapping water supply for DRC site.	**Bidder shall be responsible for site survey and check site requirement and provide the layout.**
27	Technical Specification: Civil & Electrical Works		Kindly provide layout for existing external water supply reticulation system, soil waste drainage & external storm water drainage.	**Bidder shall be responsible for site survey and check site requirement and provide the layout.**
28	Technical Specification: Civil & Electrical Works		We presume that Sewage treatment plant, water treatment plant, organic waste composter, rain water harvesting & irrigation and land scaping are not in our scope.	**Bidders understanding is correct**
29	Technical Specification: Civil & Electrical Works		We understand that the fire pump room and fire tank are part of the existing site development. Our scope commences from tapping the existing network and handling the distribution to the DRC.	**Bidder shall be responsible for site survey and check site requirement and provide the layout.**
30	Technical Specification: Civil & Electrical Works: Gas Supperession System		Should we include both duty and standby gas suppression cylinders? Please confirm.	**As per RFP**

31	Technical Specification: Civil & Electrical Works: Gas Supperession System		We understand that the gas suppression system is to be provided for the data hall, power room, and equipment room.	**As per RFP** **(V-II, Technical Specification: IT Infra, Cloud & DCI , Gas Supperation System, Pg.No.89)**
32	Technical Specification: Civil & Electrical Works: Fire Extinguishing system		Single interlock system is mentioned for sprinker system please confirm should we consider single interlock or double interlock.	**As per RFP**
33	Technical Specification: Civil & Electrical Works: Fire Extinguishing system		please confirm preaction system should be with air compressor or nitrogen generator	**As per RFP**
34	General		The Bill of Quantities (BOQ) has been included with the tender documents. Kindly confirm whether the contract will be awarded on a lump sum basis or based on the BOQ.	**As per RFP**
35	Technical Specification: Civil & Electrical Works		should we consider double wall or single wall fuel pipe.	**As per RFP**
36	Technical Specification: Civil & Electrical Works		should we consider double wall or single wall bulk storage tank.	**As per RFP**
37	Technical Specification: Civil & Electrical Works		kindly confirm the duration of fuel to be stored for bulk storage tank	**To maintain the Uptime Tier-3 standard during the complete project lifecycle**

38	Technical Specification: Civil & Electrical Works		kindly confirm the scope for first fill of fuel for tanks.	**Bidder shall be responsible for fuel filling until user acceptance test and handover of overall scope (T+18 or actual)**
39	Technical Specification: Civil & Electrical Works		whether leak detection cable should be of reusable or non reusable type for fuel tank.	**Designed for long-term monitoring in high-reliability settings**
40	Technical Specification: Civil & Electrical Works		should we consider fusible link valve for supply and return fuel line.	**As per RFP**
41	Technical Specification: Civil & Electrical Works		Please also confirm should we use motorized valve or solenoid valve	**Motorized Valve**
42	Technical Specification: Civil & Electrical Works		kindly confirm rack quantity and rack density for equipment room.	**As per RFP**
43	Technical Specification: Civil & Electrical Works: UPS		We understand the following requirements: A 600 kVA UPS system is to be provided with lithium-ion batteries, offering a backup duration of 15 minutes. A 150 kVA UPS system is to be provided with lithium-ion batteries, offering a backup duration of 30 minutes. Please note that the specified backup durations are relatively high compared to standard and internationally followed norms which are 10 minutes. Kindly confirm if these durations are to be maintained as per project requirements since this would push the costs high.	**As per RFP**
44	Technical Specification: Civil & Electrical Works		Please confirm whether we should consider an isolated power room.	**As per RFP**
45	Technical Specification: Civil & Electrical Works		Kindly confirm whether fiber raceways or wire mesh cable trays should be used for routing fiber optic cables.	**Bidder Shall propose solution based as per TIA-942 standard**

46	Technical Specification: Civil & Electrical Works		Should the IPDUs be equipped with input monitoring, or is socket-level monitoring required? Please confirm.	**As per RFP**
47	Technical Specification: Civil & Electrical Works: PAC		Please confirm the specified return air temperature of 18°C, as it appears to be lower than typical design standards.	**Bidders to propose thier solutions as per ASHRAE guidelines**
48	Technical Specification		The specification mentions the requirement for 42U racks equipped with intelligent PDUs and rack access control. Kindly clarify the type of rack access control system required (e.g., biometric, RFID, keypad-based, or other)	**As per RFP**
49	Technical Specification		In Section 6.3 “IT Cloud Equipment: Bill of Material” of Volume II, it is indicated that both the DC and DRC each include two management switches. However, no corresponding technical specifications are provided in the preceding technical requirement sections. Please clarify whether the management switches are to be supplied. If so, kindly provide the relevant technical specifications.	**Pls refer Technical Specification of Leaf Switch Type 3.**
50	Technical Specification		Please specify the types of operating systems required and the corresponding quantity for each type.	**As per RFP**
51	Technical Specification		The requirements for systems such as Rodent Repellent System, iPDU, Asset Tracking and Static Transfer System, and Intelligent Cabling are listed. However, these items are not reflected in the Bill of Quantities (BOQ) in Volume III. Kindly confirm whether these systems are included within the project scope.	**Yes , these items are in the project scope and should be quoted under Vol III - Price Schedule Sl. No.10 - Indoor Power and Equipment . Sl. No. H and I**
52	Technical Specification		In Volume II of the bidding document, under Section 6.2.5 "Privilege Access Management (PAM5)", item 22 specifies the following technical requirement: “IAM and PAM solution should be from the same OEM for the seamless working of the solution.” Does this mean that both IAM and PAM products must be from the same manufacturer (OEM)? Or are products from different brands also acceptable?	**As per RFP**
53	ITB		Besides the two copies,we need to confirm whether submission of a USB electronic copy is required .	**USB electronic copy is required .**

55	EQC		Regarding the scope of Manufacturer's Authorization: The bidding document states that "In the case of a Bidder who offers to supply and install major items of plant under the contract, which the Bidder did not manufacture or otherwise produce, the Bidder shall provide the Manufacturer's authorization." Please clarify whether this requirement applies only to the three major categories (DWDM, Cloud, and Modular DRC), or whether Manufacturer's Authorization is also required for all other major equipment such as diesel generators, elevators, transformers, load balancers, etc.	**MAF of all equipment proposed by the bidder , covering the entire scope of the RFP, shall be submitted with the bid response.**
56			This part of the scope overlaps with the earlier section. Please advise whether a separate quotation is required.	**As per amendment**
57	General		Kindly clarify where we can get power source and water supply for construction activities.	**Bidder has to arrange water and electriciy themselves during Construction.**
58	General		Request for the land allocation details for the DRC Project, including the boundary specifications, total area, and site dimensions. Furthermore, please advise whether any soil investigation or geotechnical analysis reports are available for the proposed site.	**As per RFP**
59	General		For the on-site fire water station and fire protection system, please clarify whether a new fire protection system needs to be constructed or if the existing on-site fire facilities can be utilized. If a separate fire protection system is required, please confirm whether water can be supplied from the municipal water supply or through existing on-site fire hydrants. If the existing water supply system can be used, it is necessary to confirm the location, pipe diameter, and water pressure of the supply connection point.	**A new fire protection system needs to be constructed**
60	Site Survey		The requirements for systems such as Rodent Repellent System, iPDU, Asset Tracking and Static Transfer System, and Intelligent Cabling are listed. However, these items are not reflected in the Bill of Quantities (BOQ) in Volume III. Kindly confirm whether these systems are included within the project scope.	**pls refer response No. 51**

61	Site Survey		Please specify the locations of the on-site fiber optic and cable connection points. Kindly provide the layout diagram of the fiber optic and electrical cable routing at the site. Additionally, please confirm the distance from the cable connection point to the project site, and clarify the required construction method or treatment for the cable trench.	**Bidder may conduct a site survey to obtain the corresponding data.**
62	Site Survey		The substation is capable of providing an output voltage of 132kV to 220kV, while the data center requires an input voltage of 11kV. Please clarify whether power supply needs to be sourced from another substation, or if there is an alternative solution to meet the required voltage level. In accordance with Tier III standards, dual power supply routes from independent sources must be provided. Kindly specify the connection point locations for both power supply routes, and confirm whether they can fully meet the overall power demand of the DRC facility.	**NEA shall provide 11kV supply in substation premises, the contractor can design considering 11 kV Source are available.**
63	Technical Specification	Integration with Existing Systems: After the completion of existing contracts of Smart Metering Ph 1 and RMS applications, connect the private cloud with current enterprise systems and applications. Implement APIs for smooth hybrid cloud or multi-cloud environments of existing IT Infra platforms deployed in different projects in NEA.	Kindly confirm at which location existing system is currently hosted. Kindly confirm the detailed exisiting system landscape. Kindly confirm detailed application landscape & flow of the existing system.	**Please refer Sl.No. 7**
64	Technical Specification	Proposed cloud vendors should be a brand listed once or more than once in the Gartner's Magic Quadrant for at least last three (3) years or internationally equivalent for HCI or Cloud Infrastructure or Cloud services or Distributed Hybrid Infrastructur	This clause is typically applicable to public cloud or third-party hosted cloud services. However, in this case, the requirement is for a private cloud setup hosted at the authority's own premises, where the solution will be managed and operated within your infrastructure. Furthermore, since the scope involves hardware supply and on-premise deployment, the Gartner Magic Quadrant listing for public cloud or managed service providers may not be directly relevant or applicable. We kindly request you to consider removing or amending this clause to ensure fair participation from capable OEMs and solution providers who specialize in private cloud deployments and meet all technical and operational requirements, even if they are not listed in Gartner's Magic Quadrant.	**As per RFP**

65	Technical Specification	2 Software License - Basic a Server OS License (For all the proposed virtual Machines Windows and Linux) Set	Please confirm count of virtual machines windows and linux seperately	**Bidder may propose as per their solution**
66	Technical Specification	c. The following parameters are to be adhered to at the time of a failover: • RPO – 15 Sec • RTO – 5 Minutes	We kindly request you to amend these values to the following: RPO: 15 minutes RTO: 2 hours The current targets are significantly stringent and may present challenges in practical implementation, particularly in terms of infrastructure readiness, replication technology capabilities, and recovery orchestration.	**As per amendment**
67	EQC	Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder's participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder's participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply system, Firefighting, Networking and Security etc. Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country.	**Request To Authority kindly amned this clause as:** Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder's participation under each contract exceeds US$ 2.1 M (Equivalent NPR 287 M). The Similarity of the bidder's participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply system, Firefighting, Networking and Security etc. Note: Bidder's/Joint Venture/Partner in-house Data Centres experience shall not be considered unless used for commercial use.	**As per RFP**
68	General		Please provide the site plan clearly marking the areas allocated for DG sets, transformer, and HT yard.	**The successful Bidder shall be responsible for site survey and check site requirement and propose the layout for approval during the design phase.**
69	General		Please share the proposed Single Line Diagram (SLD) for the Disaster Recovery (DR) facility.	**The successful bidder shall be responsible for conducting a site survey, assessing site requirements, and proposing the Single Line Diagram (SLD) for approval during the design phase.**

70	EQC	Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder's participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder's participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply system, Firefighting, Networking and Security etc. Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country.	As per the prevailing industry trends, customers are increasingly implementing Smart Row Soution for their Datacenter which include Power, Cooling, Fire Fighting System in a single package In light of these evolving trends, we kindly request an amendment to the clause to align with current market practices. This revision would enable us to participate effectively while leveraging our expertise across all key components. Requesting to amend this clause as follows: Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder's participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder's participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, (Cooling, Power supply system, Firefighting)/**Smart Rack Solution** , Networking and Security etc. Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country.	**As per RFP**
71	Technical Specification: IT Infra, Cloud & DC-Implementation Plan	O&M Services support for 3 (three) years post Go-Live including facility management and manpower services for: Phase A, B, C, D- T+78 Month	The project duration is stated as 3 years. However, in this clause, the O&M phase is mentioned to extend until T+78. Additionally, multiple timelines are mentioned at various sections of the RFP document, which creates ambiguity. We request you to kindly provide clarity on the exact project timeline, including the commencement and completion of each phase.	**The project duration is T+54 months (including O&M period of 3 years i.e. 36 months)**

72	Scope of work	Supply, Delivery, Installation and Integrating proposed NEA Private Cloud with existing systems (like Private Cloud operating in NEA existing Data Centre with the Virtual Machines and others), setting up secure access controls, efficient and reliable Disaster Recovery Centre (DRC) operations and NEA Private Cloud supply deployment and maintaining operations including thorough testing to ensure data integrity and availability on Private Cloud.	In reference to the scope of work involving the supply, delivery, installation, and integration of the proposed NEA Private Cloud with existing systems—including the current Private Cloud infrastructure operating at NEA's Data Centre—we request your kind assistance in sharing the following details to enable effective planning, integration, and implementation: Comprehensive list of existing Data Centre components, including: >Servers (make, model, and configuration) >Storage systems >Network devices (including Firewall, Switches, Routers) >Security Information and Event Management (SIEM) systems >Hypervisor platform(s) in use Inventory of existing Virtual Machines, including: >Total number of VMs (segregated by Production and Non-Production environments) >Operating System details for each VM >Resource allocation (CPU, RAM, Storage) per VM >Any VM-level clustering or HA configuration in place This information is critical for ensuring seamless integration with the proposed NEA Private Cloud, establishing secure access controls, and setting up a reliable Disaster Recovery Centre (DRC) with full data integrity and availability assurance.	**Please refer Sl.No. 7**

73	Scope of work	After the completion of existing contracts of Smart Metering Ph1 and RMS applications, connect the private cloud with current enterprise systems and applications. Implement APIs for smooth hybrid cloud or multi-cloud environments of existing IT Infra platforms deployed in different projects in NEA.	As per our understanding, the scope of the current RFP is limited to the Design, Supply, Installation, and Commissioning of Disaster Recovery Centre (DRC), Private Cloud Infrastructure, and Data Center Interconnect (DCI). Additionally, it is understood that Smart Metering Ph1 and RMS applications are third-party utility applications and do not fall under the scope of this RFP. Given this context, we request clarification on the following points: 1. Responsibility of Integration: The clause refers to connecting third-party applications (Smart Metering Ph1 and RMS) with the private cloud infrastructure and implementing APIs for hybrid/multi-cloud environments. Could you please clarify whether this integration responsibility falls within the scope of this RFP or if it will be handled by the respective third-party application providers? Becaue Integration between 2 applications can be done only by companies provided the application. In current RFP, Creating infrastructure for these applications are the Scope. 2. Scope of API Implementation: Kindly elaborate on the expected scope and extent of API implementation mentioned in the clause. Is the bidder expected to develop integration APIs for third-party applications, or simply provision the cloud infrastructure with API-ready capabilities? 3. Post-Contract Completion Activities: The clause indicates actions to be taken after the completion of existing contracts. Are these post-contract activities to be planned or executed within the current RFP timeline, or will they be addressed through separate engagements at a later stage? We request you to kindly elaborate on the specific scope, roles, and expectations in this regard, to avoid any ambiguity during bid preparation.	**Please refer Sl.No. 7**
74	technical Specification - IT Infra	Under Storage capacity there is 3 different tier of storage i.e. NVMe, SAS-SSD and NL-SAS is asked	Requesting you to kindly confirm, whether the bidder can also propose 3-tier architecture (separate compute, storage, and networking) for proposed NEA Public cloud for both DC & DRC.	**As per RFP**
75	Technical Specification - IT Infra	(a)Server OS License (For all the proposed virtual Machines- Windows and Linux) 01 set at DC & 01 Set at DRC	Requesting you to kindly share the individual quantity of operating system i.e. windows & Linux.	**Pls refer response No 65, Bidder may propose as per their solution**

76	Technical Specification - IT Infra	Front and back doors should be perforated with min 70% or higher perforations.	Please accept to revise this clause as "Front and back doors should be perforated with min 65% or higher perforations."	**As per RFP**
77	Technical Specification - IT Infra	Network racks should be of 600 mm / 800 mm wide and 1200 mm deep with caster wheels and levelling feet. Overall height of racks should not exceed 2000 mm including castor and wheels.	Please accept to revise this clause as "Network racks should be of 750 mm / 800 mm wide and 1200 mm deep with caster wheels and levelling feet. Overall height of racks should not exceed 2000 mm including castor and wheels."	**As per RFP**
78	Technical Specification - IT Infra	The frame shall support 1361kg static weight load, 1022kg dynamic (non- transit) weight load, and 907kg transit weight load.	Please accept to revise this clause as "The frame shall support 1701 kg static weight load, 1020kg dynamic weight load."	**As per RFP**
79	Technical Specification - IT Infra	All rack sheet metal components should be powder coated RAL7021 (Black).	Please accept to revise this clause as "All rack sheet metal components should be powder coated RAL7021 / RAL9005 (Black)."	**Confirmed**
80	Technical Specification	The door frames of the cabinet can be installed with expansion bolts (ground) or bolts (base).	Please accept to revise this clause as "The rack shall be with Levelling Legs and Castors"	**As per RFP**
81	Technical Specification	The thickness of the non-load-bearing part of the cabinet is not less than 1.0 mm, the thickness of the load-bearing part is not less than 1.5 mm, the static bearing capacity is not less than 1500 kg, and the test report issued by a third-party authority is provided. The entire cabinet is protected to at least IP20.	Please accept to revise this clause as "The thickness of the non-load-bearing part of the cabinet is not less than 1.0 mm, the thickness of the load-bearing part is not less than 1.5 mm, the static bearing capacity is not less than 1700 kg, and the test report issued by a third-party authority is provided. The entire cabinet is protected to at least IP20."	**As per RFP**
82	Technical Specification	Connecting parts such as cabinet materials, screws, and bolts should be stainless. The cabinet should be configured with matched screws and knots.	Please accept to revise this clause as "Connecting parts such as cabinet materials, screws, and bolts should be as per OEM Standard. The cabinet should be configured with matched screws and knots."	**As per RFP**

83	Technical Specification	There are at least four mounting posts inside the cabinet for installing devices and securing partition panels. The posts can be adjusted forward and backward. The posts on the front door of the rack must be marked with U numbers. The cabinet posts should be made of eight-folded profiles by one-off roll forming. The thickness of steel plates used by the main load-bearing components (frame, beam, post, U-shaped mounting bar, L-shaped bracket, and partition panel) of the cabinet is not less than 1.5 mm. The thickness of steel plates used by the side panel, top panel, bottom panel, PDU fixing panel, strong-current cable binding panel, network cable binding panel, and baffle panel is not less than 1 mm.	Please accept to revise this clause as "There are at least four mounting posts inside the cabinet for installing devices and securing partition panels. The posts can be adjusted forward and backward. The posts on the front door of the rack must be marked with U numbers. The cabinet posts should be rigid enough to carry the equipment weight . The thickness of steel plates used by the main load-bearing components (frame, beam, post, U-shaped mounting bar, L-shaped bracket, and partition panel) of the cabinet is not less than 1.5 mm. The thickness of steel plates used by the side panel, top panel, bottom panel, PDU fixing panel, strong-current cable binding panel, network cable binding panel, and baffle panel is not less than 1 mm."	**As per RFP**
84	Technical Specification	The effective installation depth of devices inside the cabinet is not less than 750 mm. The PDU or sockets (including the situation after the power plugs of servers are connected to the sockets) should not hinder the installation of servers. It is recommended that four reserved holes with rubber ferrules be designed for the frame structure on the top of the cabinet. The edges should be smoothed to avoid scratching cables. The cable inlet should be equipped with a cable fixing device and a dedicated sealing device to prevent air leakage. The bottom of the cabinet should be sealed.	Please accept to revise this clause as: The effective installation depth of devices inside the cabinet is not less than 750 mm. The PDU or sockets (including the situation after the power plugs of servers are connected to the sockets) should not hinder the installation of servers. It is recommended that four reserved holes with brushes / rubber ferrules be designed for the frame structure on the top of the cabinet. The edges should be smoothed to avoid scratching cables. The cable inlet should be equipped with a cable fixing device and a dedicated sealing device to prevent air leakage. The bottom of the cabinet should be open for ease of cabling from bottom"	**As per RFP**

85	Technical Specification	There should be a depth of at least 50 mm between the mounting bars on the front posts of the cabinet and the front door frame, and at least 200 mm on the rear side of the cabinet. Removable baffle panels should be installed on both sides of the area. After all servers are installed, cold air can only be supplied into the servers through the air intake panel for servers. After heat exchange inside devices, heat is exhausted out of the rear of the cabinet and does not directly enter the hot aisle through other areas. Each cabinet can be configured with several 1 U and 2 U baffle panels. Buckletype baffle panels should be used.	Please accept to revise this clause as "There should be a depth of at least 50 mm between the mounting bars on the front posts of the cabinet and the front door frame, and at least 200 mm on the rear side of the cabinet. Removable baffle panels should be installed on both sides of the area. After all servers are installed, cold air can only be supplied into the servers through the air intake panel for servers. After heat exchange inside devices, heat is exhausted out of the rear of the cabinet and does not directly enter the hot aisle through other areas. Each cabinet can be configured with several 1 U toolless type blanking panels"	**As per RFP**
86	Technical Specification	For security iPDU should support encryption via TLSv1.2	Please accept to revise this clause as "For security iPDU should support cybersecurity standards"	**Support encryption via TLSv1.2 or higher**
87	Technical Specification	ARP, IPv4, IPv6, ICMP, ICMPv6, NDP, TCP, UDP, DNS, HTTP, HTTPS, SMTP, SMTPS, DHCP, SNMP (v1/v2c/v3), and Syslog.	Please accept for revision in communication protocols "IPv4, IPv6, TCP, HTTP, HTTPS, SMTP, SMTPS, DHCP, SNMP (v1/v2c/v3), and Syslog."	**As per RFP**
88	Technical Specification	iPDU should have capability to connect to 16 sensors (temperature, humidity, airflow, Dew Point).	Please accept to revise this clause as "iPDU should have capability to connect upto 8 sensors Temperature, humidity, Door switch, Rope fluid leak, dry contact. (Temperature & Humidity sensor to be provided with each PDU)."	**As per RFP**
89	Technical Specification	SITC of 42U Server Racks (600 mm x 1200 mm) UL approved/complied; The rack should be able to withstand a minimum static load of 1361 Kgs and rolling load of 1022 Kgs. The unit should have a minimum of IP 20 rating for protection against touch, ingress of foreign bodies, and ingress of water. Rack front door should have minimum 70 % of open perforation for efficient air flow. ROHS compliant. Racks should be supplied with access control system as per specification at both front and rear doors.	Please accept to revise this clause as "SITC of 42U Server Racks (600 mm x 1200 mm) UL approved/complied; The rack should be able to withstand a minimum static load of 1701 Kgs and rolling load of 1020 Kgs. The unit should have a minimum of IP 20 rating for protection against touch, ingress of foreign bodies, and ingress of water. Rack front door should have minimum 69 % of open perforation for efficient air flow. ROHS compliant. Racks should be supplied with access control system as per specification at both front and rear doors."	**As per RFP**

90	Technical Specification	SITC of 42U Network Racks (800 mm x 1200 mm) UL approved/complied; The rack should be able to withstand a minimum static load of 1361 Kgs and rolling load of 1022 Kgs. The unit should have a minimum of IP 20 rating for protection against touch, ingress of foreign bodies, and ingress of water. Rack front doorshould have minimum 70 % of open perforation for efficient air flow. ROHS compliant. Racks should be supplied with access control system as per specification at both front and rear doors.	Please accept to revise this clause as" SITC of 42U Network Racks (750/800 mm x 1200 mm) UL approved/complied; The rack should be able to withstand a minimum static load of 1701 Kgs and rolling load of 1020 Kgs. The unit should have a minimum of IP 20 rating for protection against touch, ingress of foreign bodies, and ingress of water. Rack front doorshould have minimum 69 % of open perforation for efficient air flow. ROHS compliant. Racks should be supplied with access control system as per specification at both front and rear doors."	**As per RFP**
91	Technical Specification	Rack Power Distribution Unit, monitor type-1PH-Full height vertical -free mounting plate.	Please re-confirm on the PDU to be considered as according to Page 177 of the tender document, it is mentioned that there are a total of 60 racks (54 IT racks and 6 network racks). Each IT rack's power is designed for 10kW, and each network rack is designed for 7kW. Hence, according to this, the rack with 10kW of load ideally should have 3-phase PDUs.	**The given requirement is minimum, the PDU should be supplied according to the finalised design and load calculation frozen by the bidder.**
92	Technical Specification	Rack aisle containment, including two glass doors with access control system, plate, supporting beam and other accessory.	Please accept for removal of Access Control System from the Aisle Door for security reasons and revise this clause as "Rack aisle containment, including two glass / Lexan Panel doors, plate, supporting beam and other accessory."	**As per RFP**
93	Technical Specification	Thermal heat map - should visualize thermal data in the form of heat maps in a 3D rendering of the floor view. And should allow to view actual rack heat load and to help balancing and optimizing the system and generate reports.	Request to ammend the clause as an improvement- "Thermal heat map - should visualize thermal data in the form of heat maps in a 3D rendering of the floor view modeled as per the actual data center which can be navigated across x,y, & z axes. Users should be able to zoom-in & zoom-out the floor laout to identify anomalies at the rack level on a specific height. DCIM should allow to view actual rack heat load, velocity vector, estimated CFM at room & rack level, and to help balancing and optimizing the system and generate reports. The 3D thermal analysis should allow user to simulate impact of failure of cooling machines before it happens, and help mitigate the potential incident."	**As per RFP**
94	Technical Specification	When the hardware and monitoring devices are not faulty, the false positive rate of the system must be less than 0.1%.	Request to revise the clause as an improvement : "When the hardware and monitoring devices are not faulty, DCIM must report the accurate status of the devices to avoid any nuisance alarms "	**As per RFP**

95	Technical Specification	The system must provide a centralized monitoring page in a unified style and provide 3D visual interface, link topology, and temperature map. Disaster Recovery Centre provides a 3D model for devices in the Disaster Recovery Centre, such as air conditioners, UPSs, cabin etc.	Please accept to revise the clause as an improvement: "The system must provide a centralized monitoring page in a unified style and provide 3D visual interface, link topology, and temperature map. Disaster Recovery Centre provides a 3D model for devices in the Disaster Recovery Centre, such as air conditioners, UPSs, cabin etc. The dynamic 3D model builder must be integral part of the DCIM system, and must respond to the actual changes on the floor. i.e., each time a Rack, Cooling Unit, UPS, PDU, Containment System or any architectural object is added physically on the floor, the DCIM must allow user to update the layout dynamically simply by dragging and dropping the object with accurate properties (make, model, weight, dimensions, power consumption etc.) on the floor as per actual coordinates measured. The user should not be dependant on the DCIM vendor to send out any static images of the 3D layout upon requests for uploading to DCIM. The objects thus added, must project the right impact on the thermapping before and after as per the heatload & position on the floor, and allow user to optimize the placement for improved cooling performance."	**As per RFP**
96	Technical Specification-HVAC	The cooling units should have adjustable baffles to adjust the airflow direction.	Please revise the clause as "the cooling unit should have safe guarding from fans & fans should be EC fans to adjust air flow"	**As per RFP**
97	Technical Specification-HVAC	Precision air conditioner indoor unit should be configured with DC inverter compressor, evaporator, EC fans, controller, electric expansion valve, oil separator, sight glass, dryer filter, humidifier (optional), and electric heater (optional).	Since this is a DC requirement then why Heater & Humidifier is kept as optional. Please confirm on the same.	**As per RFP**
98	Technical Specification-HVAC	PAC evaporator should be equipped with a four-row inner-grooved copper pipe and blue hydrophilic aluminium fin to ease condensation water drainage and prevent water loss while improving heat exchange. The evaporator should be a 'V'-type design to provide better air distribution and prevent air pressure drop.	This is OEM specific clause, Evaporator coil should be designed in such a way to be serviceable from the front resulting full capacity delivery for long. Evaporator coil should be flat and slant type design. Kindly accept the clause and confirm	**As per RFP**

99	Technical Specification-HVAC	A PAC controller should use a 7-inch, true-colour LCD touch screen that features good human-machine interaction	PAC controller should be LCD touch screen but should not be specific as 7-inch or so , request to accept the clause as "PAC should be with LCD display" pls accept and confirm	**The given requirement is minimum,Bidder may propose as per their design.**
100	Technical Specification-HVAC	The PAC should have linkage and grouping control functions. At least 32 PACs can be controlled and managed in the same area in a unified manner.	This is an OEM specific clause, Request to accept the clause as Max number of PAC should be squenced in the same area in a unified manner. Kindly accept and confirm	**As per RFP**
101	Technical Specification-HVAC	With a dual power supply, the A and B power should have separate lightning protection components. (Optional function)	Is this really needed as mentioned as optional. Kindly confirm	**As per RFP**
102	Technical Specification-HVAC	The fan rotation speed can be lowered under partial loads to save energy. The pressure difference control module should be installed inside the unit.	This is an OEM specific clause to manage dehumidification, pls accept as per OEM to manage the dehumidification process.	**As per RFP**
103	General	Clarity on PAC & In-Row cooling system	Which cooling system is needed Either In-Row or PAC. Kindly confirm.	**As per RFP**
104	General	All the critical components make	All the critical components like PAC, UPS, DCIM, Racks, Pdus, ATS, KVM, BMS, BBT & LT panels shall be from same OEM to maintain uniformity.	**As per RFP**
105	Technical Specification-UPS	For disaster recovery centre IT load, the bidder should provide 2 nos. (N+N) UPS, Capacity of 600 KVA and scalable upto 900 KVA@ 0.9 pf (IGBT based) type Uninterrupted Power Supplies (UPS) to provide 3 phase	Kindly amend the output power factor of UPS to Unity which is better than 0.9	**As per RFP**
106	Technical Specification-UPS	The back-up time should be at least 15 minutes for full load operation during which alternative feed should provide the input power.	Kindly Clarify if the full load on which the battery sizing needs to be done is for Total IT load (582 KW) or the UPS capacity (600 KW) and the load power factor shall be 0.8 or Unity?	**As per RFP**
107	Technical Specification-UPS	Hot Swappable-replaceable battery modules should be provided along with UPS.	The VRLA Batteries & Lithium ion batteries offered by leading OEMs doesnot provide hot-swappable batteries. Kindly clarify	**As per RFP**

108	Technical Specification-UPS	1) Normal operation: > 95 percent at 40 percent to 100 percent load.	Kindly amend the efficiency figure to 97% to achieve lower TCO by savings on electricity bill	**As per RFP**
109	Technical Specification-UPS	Standard battery technology should be 12 V SMF valve regulated lead acid (VRLA). Batteries to be connected in parallel	Kindly clarify if the requirement is of VRLA or LIB batteries	**As per amendment**
110	Technical Specification-UPS	Modular UPS as per approved design of DRC 150 KVA @ 0.9 pf for the non-critical load such as air-conditioning equipment, lighting	Kindly amend the output power factor of UPS to Unity which is better than 0.9	**As per RFP**
111	Bill of Material-Civil	Antistatic FLOORING: Supply & fixing of 2 mm thick antistatic flooring with required accessories for UPS and battery rooms; DRC room, BMS room, staging area, storage room and ramp.	specification where it is antistatic paint or pvc flooring	**As per RFP**
112	Scope of work-Civil	The building should support minimum 2-layer stack deployment. The civil foundation shall be designed to accordingly for 2-layer stacking and can meeting Nepal building seismic requirements the disaster recovery centre structures shall meet the local building standards and codes the building structure report b or similar structural calculation report by SAP2000 is required to prove its performance.	strucutre analysis required for all components of civil or only building	**The bidder should submit detailed structure report with simulation of the building.**
113	Survey	Detail site survey must have done by the bidder before submitting the bid. NEA will consider it is done, whosoever has submitted a bid.	what level of survey required, is it with details and drawings	**Statement is self-explanatory.**
114	General		test are mentioned ,what about leb setup	**As per RFP**
115	EQC		in what ratio it will be mentioned	**As per RFP**
116	GCC		is it considered or not	**As per RFP**

117	EQC	Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder's participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder's participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply system, Firefighting, Networking and Security etc. Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country.	To allow wider participation and make the bid competitive, a request to relax the criteria that 'one (1) should have been executed outside the Bidder's Home Country', this clause restricts many technically sound bidders from participating in this RFP. Revised clause is as "Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder's participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder's participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply system, Firefighting, Networking and Security etc. " ~~Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country.~~ **Justification for Change:** **Encouraging Wider Participation:** The requirement to have executed a similar project outside the bidder's home country significantly limits participation, particularly for technically competent firms operating in large domestic markets. This restriction may inadvertently disqualify qualified bidders with extensive experience in complex and large-scale projects who have not had the opportunity to operate internationally due to business focus or regulatory constraints.	**As per RFP**

			Technical Capability is Not Country-Dependent: The capability to deliver a project of this scale and complexity — including compliance with international standards (e.g., ISO 27001, ISO 20000, CMMI level 3, etc.) — is not dependent on the project's geographic location. Bidders with strong performance in their home markets often adhere to the same international benchmarks and best practices.Project Complexity and Value Already Ensure Competence: The existing requirement for participation in projects each exceeding US$ 8.8 million ensures that only firms with significant and relevant experience can qualify. This financial and technical threshold itself is a robust filter for competency and capacity. Global Challenges, Local Solutions: Many countries have rapidly growing and technically mature ICT sectors. Local execution of large-scale data center and DRC projects can be as complex, regulated, and standards-driven as projects elsewhere. Disregarding these projects due to geographic origin discounts meaningful and relevant experience. Promoting Fair Competition: Allowing bidders with high-value, technically comparable domestic experience would make the tender more competitive, driving better pricing and innovation, ultimately benefiting the project owner. We trust that the proposed revision continues to uphold the original intent of ensuring bidders have relevant experience, while allowing technically sound and capable firms to participate more equitably.	

118	EQC	For the above or other contracts executed during the period stipulated in 2.4.1 above, a minimum experience in the following key activities The bidder has designed, supplied, installed and commissioned at least (one) a valid BS7799 certified / ISO 27001 certified / Tier-III complaint Data center or Disaster Recovery Centre project (Note: Bidder's in-house data centers shall not be considered, Bidders who have built their own Internet data center (IDC), for commercial use will be considered)	We would like to request a modification to the clause regarding the bidder's experience with BS7799 / ISO 27001 / Tier-III compliant Data Center or Disaster Recovery Center projects, as stated below: Current Clause: "The bidder has designed, supplied, installed and commissioned at least (one) a valid BS7799 certified / ISO 27001 certified / Tier-III compliant Data center or Disaster Recovery Centre project." Proposed Change: We request the clause to be revised as follows: "The bidder organization must possess a valid BS7799 or ISO 27001 certification, or have executed a project for a client holding such a certification, related to Data Center or Disaster Recovery Center design, supply, installation, and commissioning." Justification for Change: **Organizational Certification Reflects Robust Compliance:** Requiring the bidder's organization to hold ISO 27001 or BS7799 certification ensures a consistent and ongoing commitment to information security management, which is equally — if not more — indicative of the bidder's capability and compliance culture compared to evaluating one-time project outcomes. **Tier-III Compliant vs. Certified Confusion:** The current requirement mentions "Tier-III compliant," which can be interpreted subjectively. Many data centers are built to Tier-III standards but may not undergo formal Uptime Institute certification due to cost or client discretion. This could unfairly exclude capable bidders who have delivered technically Tier-III-equivalent solutions. **Inclusivity for Proven Capabilities:** Limiting eligibility to bidders involved in data centers that have achieved formal certification (which is often at the client's discretion) may exclude bidders with verifiable, high-quality experience in similar projects where the client opted not to pursue certification. Focus on Organizational Maturity: An organization-wide certification in ISO 27001 or BS7799 ensures that security policies, risk management, and best practices are embedded in the company's operations — a key factor in ensuring secure and reliable delivery of data center solutions. We believe this proposed change maintains the integrity and security objectives of the RFP while allowing broader participation from capable bidders who meet global standards in practice, even if individual past projects were not formally certified.	**As per RFP**
119		Additional clarification	Requesting to give more clarity on the number of consortium and the number of subcontractors allowed to meet the clauses.	**As per RFP**
120	Technical Specification - IT Infra		What is the current count of virtual machines (VMs) in your environment?	**Before bid submission, Bidder can visit the site at Kathmandu to assess the requirements in detail.**
121	Technical Specification - IT Infra		or each VM, please provide the allocated and actual usage of: vCPU RAM Storage If internet access available bandwidth	**Before bid submission, Bidder can visit the site at Kathmandu to assess the requirements in detail.**
122	Technical Specification - IT Infra		Are there any containerized applications currently running? f yes, which orchestration platforms are being used (e.g., Kubernetes, Docker Swarm, OpenShift)?	**No**
123	Technical Specification - IT Infra		Are you currently using a service mesh (e.g., Istio, Linkerd) or an API gateway (e.g., Kong, Apigee, NGINX API Gateway)?	**No**
124	Technical Specification - IT Infra		What hypervisor is currently in use (e.g., VMware ESXi, Microsoft Hyper-V, KVM, Xen)?	**VMware ESXi, Microsoft Hyper-V, KVM…etc**

125	Technical Specification - IT Infra		Are you applying any overcommitment of CPU or memory resources in your virtualized environment?	**No**
126	Technical Specification - IT Infra		Is ISP (Internet Service Provider) redundancy currently available?	**Yes**
127	Technical Specification - IT Infra		How is WAN/Internet failover handled?	**Using Router**
128	Technical Specification - IT Infra		What operating systems are currently in use?	**Unix, Linux, Windows etc**
129	Technical Specification - IT Infra		Are any OS or software licenses embedded with the hardware (OEM-licensed)?	**Can be, Bidder can visit the site if necesary**
130	Technical Specification - IT Infra		What types of storage media are currently in use (e.g., SSD, SAS, SATA)?	**SSD, SAS,SATA…Bidder can visit the site if necessary**
131	Technical Specification - IT Infra		Are tiered storage strategies currently implemented?	**No**
132	Technical Specification - IT Infra		What types of workloads or applications will be hosted on the private cloud (e.g., ERP, databases, web servers, email)?	**All**
133	Technical Specification - IT Infra		What database engines are currently in use (e.g., MySQL, PostgreSQL, Oracle, MS SQL Server, MongoDB)?	**MySQL, PostgreSQL, Oracle, MS SQL Server, MongoDB….**
134	Technical Specification - IT Infra		Are they running in standalone, clustered, or managed configurations?	**Standalone, clustered, or managed as required by application**
135	Technical Specification - IT Infra		Will external users or third-party systems require access to the private cloud?	**Yes, but in managed format as required by the system**
136	Technical Specification - IT Infra		How do internal and external users currently access applications? (e.g., VPN, MPLS, direct Internet access)	**With authentication (Direct or using VPN)**
137	Technical Specification - Power & Non It Infra		Under the section Technical Specification: *IT Infra, Cloud & DCI* , an Intelligent Building Management System is requested. Please confirm whether the system is for monitoring purposes only, or if remote control and automation functionalities also required?	**As per RFP**

138	Technical Specification - Power & Non It Infra		The technical specification mentions that *no infrastructure may be mounted on the roof*. will sufficient space be provided at ground or mezzanine level for installation of steel structures to support Precision AC outdoor units?	**Bidder shall be responsible for site survey and check site requirement and provide the layout.**
139	Technical Specification - Power & Non It Infra		The specification refers to compliance with TIA-942-B. Considering that TIA-942-C is the latest version, would it be acceptable to align the design and implementation with TIA-942-C	**As per RFP**
140	Technical Specification - Power & Non It Infra		11kV connection (Grid to RMU) is under contrctor's scope? Should contractor bear the cost?	**yes 11kV UG I/C feeder to RMU is in the scope of bidder**
141	Technical Specification- BMS, DCIM, DWDM		As per page 9 of volume II, test instruments will be calibrated by employer. Does it mean NEA will calibreate the instruments?	**Valid instrument calibration certificates to be provided during testing by the bidder**
142	Technical Specification- BMS, DCIM, DWDM		Timeline phases are contradictory. Cloud and DWDM are phase C and D in the timeline table but in phase A in the diagram and the description appears to follow the diagram. the in vol II As per Technical Specification: IT Infra, Cloud & DCI pg 20	**As per amendment**
143	Technical Specification- BMS, DCIM, DWDM		Ususally fiber optic cable laying is done by the telecom service provider. As per Technical spec pg 70 vol II, link failure and fiber connectivity issue is penalized on our payments. If the issue is found as telecom provider, will this penalty still apply to us.	**Refer RFP and bidders to comply SLA**
144	Technical Specification- BMS, DCIM, DWDM		Do you want to integrate DCIM and fire detection system, so that neccesary doors will open/shut during an event?	**Yes**
145	Technical Specification- BMS, DCIM, DWDM		Do you need the VESDA to be in every room or only in critical spaces?	**VESDA must be available in each room.**
146	Technical Specification- BMS, DCIM, DWDM		For level 2 access control, disaster recovery center means the data hall or all the critical rooms or all of the rooms beyond reception?	**As per RFP**
147	Technical Specification- BMS, DCIM, DWDM		Do you expect to use anti pass back?	**As per RFP**

148	Technical Specification- BMS, DCIM, DWDM		For ISO 27001 / TIA942 camera coverage should be comprehensive. This may require additional cameras to cover all blind spots. The mentioned storage is 8TB x 2 which may not be sufficient. What is the required backup period.	**As per RFP**
149	Technical Specification- BMS, DCIM, DWDM		The compression and certain camera parameters in the list seem outdated. Can we use newer compression and parameters to save storage space, without compromising quality. This way 16 TB will be sufficient for 30 day 30 fps storage	**30 days backup is reauired , bidder may propose better solution without compromising the quality of video.**
150	Technical Specification- BMS, DCIM, DWDM		Should the RRS cover the entire facility?	**As per RFP**
151	Technical Specification- BMS, DCIM, DWDM		Do you want BMS/ELV systems to be to the tier III standard (including this is not needed for tier III/TIA942 rated 3 certification). Including it will increase costs and make the system much more complex	**As per RFP**
152	Technical Specification- BMS, DCIM, DWDM		Should LTE panel be only ethernet? Can it be through MODBUS/Bacnet (RJ45, RS485)	**Should be ethernet cable**
153	Technical Specification- BMS, DCIM, DWDM		Do you want breaker or panel level monitoring. Do you expect to have visibility through BMS of all energy/power meters?	**As per RFP**
154	Technical Specification- BMS, DCIM, DWDM		Do you want to monitor DG with BMS?	**As per RFP**
155	Technical Specification- BMS, DCIM, DWDM		Four eye principle-dual authorization system via Biometrics is a requirement under rack access. This will require 2 persons to be present during accessing a rack door. Is this actually needed?	**As per RFP**
156	Technical Specification- BMS, DCIM, DWDM		Is it ok to use the datacenter racks to host the DCIM/BMS servers and other rack mounted monitoring devices or should these be installed in the BMS room or NOC Room?	**Should be installed in the BMS/Equipment Room.**
157	Technical Specification- BMS, DCIM, DWDM		Are Copper frames required for all ethernet cables including LAN or is it only for DRC network?	**As per RFP**

158	Technical Specification - HVAC		The return temperature is mentioned as 18 degrees celcius which may force supply temperature and cold aisle temp to be less than recommended ashrae standard. Another part of the document mentions as 22+/-1 degree. Which is the requirement. We usually look for the best energy saving at normal operations and stability during a unit failure with team work to keep aisle temperature below 27 degrees and above 18 degrees. STABILITY (22-24)	**Bidders to propose thier solutions as per ASHRAE guidelines**
159	Technical Specification - HVAC		During commissioning if a spare had to be used, can the supplied spare be used but with written assurances of replacing as soon as possible?	**As per RFP**
160	Tools and tackles		Special tools and tackles for the equipment offered must be proprietary in nature. What does this mean	**As per RFP**
161	General		Requesting to give more clarity on the number of consortium and the number of subcontractors allowed to meet the clauses.	**As per RFP**
162	General		Do we directly pay trainees the per diem, or reimbursing NEA?	**As per RFP**
163	General		As per page 9 of volume II, test instruments will be calibrated by employer. Does it mean NEA will calibreate the instruments?	**As per RFP**
164	General		What is T(duration) in the timeline?	**T is the Project Effective Date as defined in the Vol. I - Sect. 7 , Pg. No.4 under "GCC: Definitions - Project Effective Date"**
165	General		In project specific requirement page 10 vol II, it says "However, for design purposes, ambient temperature should be considered as 50 degree centigrade and Relative humidity 100%. Altitude (from MSL) to be considered as 115 meters" but in technical spec pg 29 vol II, it says "The prefabricated modules are to be suitable insulated and design to be deployed in the harshest of environments of 20 years as found in as per ASHRAE guidelines." The values are contradictory. 3436 degree 20 years. which do we follow for HVAC design	**As per RFP**
166	Technical Specification - Design	The specification refers to compliance with TIA-942-B	The specification refers to compliance with TIA-942-B. Considering that TIA-942-C is the latest version, would it be acceptable to align the design and implementation with TIA-942-C	**As per RFP**
167	general-Instrument Calibration	test instruments will be calibrated by employer	As per page 9 of volume II, test instruments will be calibrated by employer. Does it mean NEA will calibreate the instruments?	**As per RFP**
168	Project Duration	Timeline phases are contradictory	Timeline phases are contradictory. Cloud and DWDM are phase C and D in the timeline table but in phase A in the diagram and the description appears to follow the diagram. the in vol II As per Technical Specification: IT Infra, Cloud & DCI pg 20	**As per amendment**

169	Service Level Agreement	link failure and fiber connectivity issue is penalized on our payments	Ususally fiber optic cable laying is done by the telecom service provider. As per Technical spec pg 70 vol II, link failure and fiber connectivity issue is penalized on our payments. If the issue is found as telecom provider, will this penalty still apply to us	**As per RFP**
170	Technical Specification-CCTV	For ISO 27001 / TIA942 camera coverage should be comprehensive	For ISO 27001 / TIA942 camera coverage should be comprehensive. This may require additional cameras to cover all blind spots. The mentioned storage is 8TB x 2 which may not be sufficient. What is the required backup period.	**As per RFP**
171	Technical Specification - HVAC	The return temperature is mentioned as 18 degrees celcius	The return temperature is mentioned as 18 degrees celcius which may force supply temperature and cold aisle temp to be less than recommended ashrae standard. Another part of the document mentions as 22+/-1 degree. Which is the requirement. We usually look for the best energy saving at normal operations and stability during a unit failure with team work to keep aisle temperature below 27 degrees and above 18 degrees. STABILITY (22-24)	**Bidders to propose thier solutions as per ASHRAE guidelines**
172	Technical Specification - HVAC	for design purposes, ambient temperature should be considered as 50 degree centigrade	In project specific requirement page 10 vol II, it says "However, for design purposes, ambient temperature should be considered as 50 degree centigrade and Relative humidity 100%. Altitude (from MSL) to be considered as 115 meters" but in technical spec pg 29 vol II, it says "The prefabricated modules are to be suitable insulated and design to be deployed in the harshest of environments of 20 years as found in as per ASHRAE guidelines." The values are contradictory. 3436 degree 20 years. which do we follow for HVAC design	**As per RFP**
173	Bidding form	The Bidder shall provide adequate information and details to demonstrate clearly that it has the capability to meet the equipment requirements indicated in Section 6 (Employer's Requirements), using the Forms below. 1,Item of Equipment 2,Equipment Information: Name of manufacturer,Model and power rating, Capacity, Year of manufacture; 3,Current Status:Current location, Details of current commitments; 4,Source: Indicate source of the equipment: Owned ,Rented , Leased or Speciallymanufactured	Please kindly specify the type of device for this equipment form. Is it the equipment in the factory that is used to produce the supplied equipment of this project? Or engineering installation and debugging equipment? or the equipment to be supplied for this project (Server, Storage, Switch, firewall, CIVIL INFRA - DRC etc.) ?	**For all equipment proposed under this tender by the bidder.**

174	Technical Specification-UPS	Standard battery technology should be 12 V SMF valve regulated lead acid (VRLA). Batteries to be connected in parallel. Batteries should be housed in the same rack as the power section or separate rack. The UPS battery should be of modular construction made up of user replaceable, hot swappable, batteries should be modular on pull out shelves for quick replacement and servicing. In event of failure of any single battery only battery backup time must reduce and should not become zero	Please confirm the UPS should be equipped with lead-acid batteries in this project. Lead-acid batteries are widely used in data centers with high security.	**As per amendment**
175	Technical Specification-UPS	Modular batteries: should be designed for 15 minutes back up at full load on each UPS.	1.UPS backup time: In different configurations of 10 minutes, 15 minutes, and 30 minutes backup time, which specific application scenarios do they apply to? 2.Load for each scenario: What is the load corresponding to each UPS backup time? Has it been calculated based on actual equipment power requirements?	**1. As per RFP** **2. As per RFP**
176	Design - Non IT	The generator set should have an appropriate rating to supply power continuously to a constant or varying electrical load for unlimited hours in data Centre application with uptime requirement of Tier III data Centre conforming to 2012 IBC certification.	Should we consider the rated power or the Continuous Operating Power (COP) for this application?	**Bidder should consider Continuous Operating Power**

177	Water leak detection system	Main control panel: The main control panel shall be a microcontroller based intelligent system capable of accepting 4 / 8 sensor cables. The system shall have LCD / LED display unit and keypad for user interface. The sensing technology shall be AC excitation and shall not use DC supply for leak detection. The AC excitation is preferred because of sensor cable getting degraded due to scale formation due to the electrolysis associated when DC excitation. The panel shall have potential free relay outputs for fire, fault, hooter etc. Individual alarm relay output shall be provided for each zone. The panel shall have MODBUS connectivity built in and shall communicate to any BMS for integration. All necessary hardware, interface card shall be included in the panel. No external module shall be connected to the main panel for leak detection.	Leak detection sensors in the industry typically use DC excitation technology, as it provides better safety. DC power supply helps prevent electrolysis, reducing scale formation and degradation of sensor cables, ensuring long-term stable operation.	**As per RFP**
178	Gas Suppression System	The multi-criteria detectors shall have a plug-in wiring connector for ease of installation and serviceability. Easy wiring using terminal block shall be provided to enable removal of a detector without loss of power to the remaining loop.	We propose a better modular device. If the detector itself fails, only the top component needs to be replaced, while the base remains unchanged. This design allows for quick replacement without disconnecting the main wiring, improving maintenance efficiency and minimizing the impact on system operation.	**As per RFP**
179	Warranty and Maintenance	The bidder should provide 3 Years comprehensive 24 x 7 x 365 Warranty for all equipment and software included in the proposed solution from the period of Go_x0002_Live	We would like to confirm the warranty coverage for the data center products and software. Does the three-year comprehensive 24x7x365 warranty apply to all equipment and software included in the proposed solution, or are there any exceptions?	**As per RFP**
180	Makes/Standards	Standard Makes	Are these brand requirements applicable to all products? Is it necessary to strictly adhere to the specified brands, or would equivalent materials that meet the same standards be acceptable?	**For only specified products/equipment.**
181	Test Report-Building	Also, should meet the requirement of 90min fire proof requirement. The vendor should provide 90min fire-proof third party test report.	What reports need to be provided? Is it acceptable to provide material certification?	**Third party test reports to be provided.**

182	Test Report-prefab	In order to provide better performance of building, all pre - fab modules need to pass not less than 30 days of salt spray test and provide international standard third party reports.	Would an alternative certification or material test report be acceptable?	**As per RFP**
183	Technical Specification- IT Infra	n. Network racks should be of 600 mm / 800 mm wide and 1200 mm deep with caster wheels and levelling feet. Overall height of racks should not exceed 2000 mm including castor and wheels.	Our standard rack height is 2000mm, but this measurement does not include caster wheels. If the requirement is for a total height of no more than 2000mm (including caster wheels), a customized solution may be necessary, which could impact the structural design and load-bearing capacity of the rack.	**As per RFP**
184	Technical Specification- HVAC	PU foam gasket should use across the metal edges of the door to prevent any leakage on cold air.	In the current design trends, we recommend using rubber-plastic insulation instead of traditional PU foam gaskets to enhance sealing performance and comply with modern standards. Rubber-plastic materials offer superior flexibility, durability, and environmental benefits, aligning with the market's growing focus on energy efficiency and sustainability.	**As per RFP**
185	Technical Specification- HVAC	Temperature: 18 Degree C (Return Air Temperature)	The return air temperature is too low, and it is closely related to the overall design of the data center.	**Bidders to propose thier solutions as per ASHRAE guidelines**
186	Technical Specification- HVAC	The PAC should use an energy saving humidifier so that maximum humidification power consumption will be lower than 50W, with the third-party test report to proof that. (optional) (The report will be ready at TR6)	If there is currently no third-party test report to verify the energy-saving performance of the humidification equipment, is it possible to configure a separate humidification device to meet specific humidification needs and ensure system reliability?	**Acceptable**
187	Technical Specification- HVAC	The compressor and dry filter should use a threaded connection so there is no welding work during maintenance. The threaded connection can reduce maintenance difficulty and shorten troubleshooting.	Threaded connections may have sealing and durability issues. It is recommended to use welded connections to ensure system stability and reduce maintenance costs.	**As per RFP**
188	Technical Specification- Private cloud	"Private Cloud Solution Requirements" : SN 8: The solution should support to connect external storage devices (like NAS, SAN etc.) and should be useable as part of the Solution, for the purpose of Backup. There should not be any hardware vendor locking while connecting the external storage/s and this can be accessed over IP (No proprietary protocol should be used).	As mentioned in "Fig: NEA Cloud Network Topology for DC-DR", the storage is internal in HCI solution. But this requirement is to connect external storage devices. So what is NEA's target solution?	**As per RFP**

189	Technical Specification- Private cloud	SI shall perform backup and restore management in accordance with mutually agreed to backup and restore policies and procedures, including performance of daily, weekly, monthly quarterly and annual backup functions (full volume and incremental) for data and software maintained on Servers and storage systems including interfacing with NEA's specified backup media storage facilities. SI's responsibilities shall ensure the below but are not limited to;	All the backup system and media storage facilities will be provided by NEA? That means Cloud need to integrate with NEA's backup system and media storage facilities? If No, what is the interface / protocol of the NEA's specified backup media storage facilities?	**Bidder has to propose its solution including backup with all licenses required**
190	Technical Specification- DNS Security	The proposed solution must defend itself against volumetric attacks. Défense must not only cover the DNS protocol but also all other supporting protocols needed for DNS service delivery like NTP, BGP, OSPF, BFD, UDP, TCP, SNMP etc.	Will NEA provide NTP source? And Cloud and other device need to integrate with NEA's NTP?	**As per RFP**
191	Design Services	Integration of Cloud with Existing Nea Legacy Infrastructure	It means to integrate the new private cloud existing NEA infrastructure, right? What are the legacy infrastructure? Please give detail scenario and descriptions.	**Please refer Sl.No. 7**
192	Technical Specification - It Infra	Border Leaf Switch*2	According to network diagram in '6.1Network Topology Architecture', Border Leaf Switch connecting to NEA Secure Intranet. (1) Which type swich is border leaf? (2) In 6.1 topology, What is use/function of 'NEA Secure Intranet'?	**As per Technical Specification**
193	Technical Specification - It Infra	Leaf Switch (Type 1, Qty: at least 2 for DC, at least 2 for DR): Provides a least 48 x 10/25GE SFP+ and 4 x 40/100G interfaces. And at least 28 x 25G, 20 x 10G and 4 x 100G should be populated with multi-mode interfaces from day 1.	According to network diagram in '6.1Network Topology Architecture', This type1 switch is for Service leaf?	**As per Technical Specification of RFP**
194	Technical Specification - It Infra	Leaf Switch (Type 2, Qty: at least 2 for DC, at least 2 for DR): Provides a least 48 x 1/10GE SFP and 4 x 40/100G interfaces, at least 20 x 10G SFP+ 10 x 10G copper, 10 x 1G SFP, 8 x 1G copper and 4 x 100G should be populated with multi-mode interfaces from day 1.	According to network diagram in '6.1Network Topology Architecture', This type2 switch is for management leaf?	**As per Technical Specification of RFP**

195	Technical Specification - It Infra	Leaf Switch (Type 3, Qty: at least 2 for DC, at least 2 for DR): Provides a least 48 x 1GE RJ45 and 4 x 10G interfaces. And at least 4 x 10G should be populated with multi-mode interfaces from day 1.	According to network diagram in '6.1Network Topology Architecture', This type2 switch is for OOB switch?	**As per Technical Specification of RFP**
196	Technical Specification - It Infra	Solution should support time-based access controls (e.g. acquiring temporary access rights for admin).	Is this requirement for IDAM or for the app	**As per RFP**
197	Technical Specification - It Infra	Solution should provide role/rule-based facilities (registration based on user attribute-based customizable rules).	Can the specific scene details be refined?	**As per RFP**
198	Technical Specification - It Infra	Workflows.	Does workflow refer to the ability to integrate workflows or provide workflows?	**As per RFP**
199	Technical Specification - It Infra	Solution should provide a high level of user configurability	What's the meaning of "a high level of user configurability"? Could you provide a detailed description or give an example?	**As per RFP**
200	Technical Specification - It Infra	Solution should have option for perimeter scanning testing	What's the meaning of "option for perimeter scanning testing"? Could you provide a detailed description or give an example	**As per RFP**
201	Technical Specification - It Infra	Solution should be able to perform the Intelligence Scanning	What's the meaning of "Intelligence Scanning"? Could you provide a detailed description or give an example	**As per RFP**
202	Technical Specification - It Infra	The container solution should support the network interconnection between containers and hosts. the container network support layer-4 and layer-7 load balancing. Support container network security policies. Support basic data volume operations, such as creating, deleting, attaching, or detaching a data volume.	What's the performance of layer-4 and layer-7 load balancing? And what's the difference between this load balancing and 6.2.4 Server load balancer (SLB) in page 195?	**As per RFP**
203	Technical Specification - It Infra	The solution should provide authentication, authorization and accounting (AAA) out of the box	What's the difference requirements between AAA and 4A? If we provide 4A protocol in PAM5, then PAM5 will support AAA also? That means AAA is provided by PAM5 also, Are we right?	**As per RFP**
204	Technical Specification - It Infra	Solution should support 4A protocols i.e. Authentication, auditing, accounting & authorization.		**As per RFP**

205	Technical Specification - It Infra	Key initiatives include the implementation of robust firewalls, intrusion detection systems, Web Application Firewalls (WAF), Distributed Denial of Service (DDoS) protection, Network Detection and Response (NDR) systems, and Security Information and Event Management (SIEM/SOAR) systems. Continuous monitoring protocols have also been prioritized to strengthen NEA's digital assets and proactively mitigate potential cyber threats.	WAF, DDOS, NDR, SIEM, and so on. All the function will be provided by NEA? And all the function will be deployed in the new private platform? Thanks	**As per RFP**
206	Technical Specification - It Infra	Storage Pool Capacity: For DC: At least 200TB Usable Capacity with NVMe SSD, at least 500 TB Usable Capacity with SAS SSD, at least 500 TB Usable Capacity with NL-SAS across All Private Cloud and at least 200 TB of NL-SAS should be reserved for backup. For DR: At least 200TB Usable Capacity with NVMe SSD, at least 500 TB Usable Capacity with SAS SSD, at least 500 TB Usable Capacity with NL-SAS across All Private Cloud and at least 200 TB of NL-SAS should be reserved for backup. Storage disks should be hot swappable and field replaceable The Contractor / System Integrator should provide backup capacity licenses for 200 TB.	Here, for DC and DR, each need 200+500+500=1200TB for system storage, and 200TB for backup. But in doc **1746778535_DRCP Volume III**, it described each DC need 1024TB for Storage & Backup System. The 2 doc describe storage capacity differently. Please kindly clarify.	**Pls Refer Clarification reponse Sr.No.9**
207	Financial forms	The bidder should provide 3 Years comprehensive 24 x7 x 365 Warranty for all equipment and software included in the proposed solution from the period of Go- Live.	Bid require Vendor to provide 3 years free warranty from Go-Live and 3 years AMC quotation from Go-Live. Please provide detailed scope and requirement of warranty and AMC so that Vendor can quote accordingly.	**As per RFP**
208	Financial forms	AMC for Cloud Services for DC and DR including bothS/w & H/w (3 years after Go-Live) AMC for DR Infrastructure, Optical fibre network for DC-DR DWDM Solution and DWDM Equipment (3 years after Go-Live)		

209	Technical Specification - Provate Cloud	FMS Cost for Cloud Orchestrator Solution, Security, Application Software, Firewall etc.(3 Years after go live) FMS for all DC/DRC related facilities (3 Years after golive) FMS for DWDM/ Optical fibre (3 Years after go live)	Vendor can find clound platform FMS scope in RFP, but FMS scope for DC/DRC related facilities and DWDM/ Optical fibre are not in RFP. Please provide detailed scope and requirement of DC/DRC facilities FMS scope and DWDM/ Optical fibre FMS scope so that Vendor can quote accordingly.	**As per RFP**
210	Factory Acceptance Test	Factory Acceptance Tests (FAT) The following materials, but not limited to those listed, must be inspected, examined, and tested by NEA's designated Engineer/Project Manager at any stage of manufacturing and/or construction. NEA's designated Engineer/Project Manager shall have the right to reject defective material	How many persons will NEA send to attend the Factory Acceptance Tests stage?	**According to project needs**
211	Technical Specification-HVAC	Field Tests (Site Acceptance tests -SAT) The Site Acceptance Test (SAT) and the site acceptance test procedure provides an opportunity for final confirmation that the performance experienced during the Factory Acceptance Testing (FAT) is repeated after the systems are installed onsite, ensuring nothing has changed or was damaged during shipment and installation. This process typically involves full functional testing of the machines/equipment after they are installed and integrated with support systems. Engineers who designed the systems and performed the FAT, also lead the SAT to ensure continuity and completeness.	Is the Heat-load test required for the power distribution and air-conditioning system of the data center?	**As per RFP**
212	Project Specific Requirement	O&M including supply of manpower for DRC, NOC, BMS, Civil Builds, facility management and non-Support for a period of 3 years from Go-Live.	1.Does the O&M interface also include the O&M of data center infrastructure (power distribution, air conditioner, and fire control systems)? 2.Is 7*24-hour O&M required? 3.Are there any requirements for the number of personnel of the O&M team? 4.For DRC O&M, is the bidder required to provide security personnel and cleaning personnel?	**1. O&M interface also include the O&M of data center infrastructure (power distribution, air conditioner, and fire control systems)** **2. 7*24-hour O&M required.** **3. As per RFP** **4. No.**
213	Implementation Plan	What does the timeline "T+1"Means?Contractor	T+1. We regards T as the PO issuance date. T+1 is one week after the contract is signed. Please confirm 1 mean 1 week.	**Pls Refer this Clarification Sr.No. 64**

214	Time Schedule	Time to complete the plant and services from the effective date specified in Article 3 of the Contract Agreement for determining the time for completion of pre-commissioning activities is: 540 Days. No credit will be given for earlier completion. Bids offering a completion date beyond 540 days shall be rejected.	Vendor consider this means the project duration from PO to project acceptance is 540 canlendar days, Please confirm.	**Project Implementation period is 540 Days, Project Operation and maintenance period is 36 months**
215	Bidding Forms	Site Organization	Please provide the specific content requirements of this document.	**As per RFP**
216	Bidding Forms	Must submit an implementation methodology and work plan for the entire job (Methodology, Work Plan	1. Vendor consider the implementation Methodology is proposal to show how to implement the project, if not, Please give more detailed requirement. 2. Vendor consider the high level time schedule, if not, Please give more detailed requirement.	**As per RFP**
217	Scope of Work-Network	NEA shall provide dark core OPGW cable between DC and DRC site through redundant path (Path I: -Kathmandu-Hetauda-Bharatpur-Butwal and Path II: - Kathmandu-Marsyandi PH-Pokhara-Kaligandaki-Butwal, Path-III: - 220 kV Line from Kathmandu-Marsyangdi S/SBharatpur S/S to New Butwal S/S). Note: Bidder shall consider two Path only during design phase.	1, OPGW is on air or not? if not Which party is responsible for the engineering of OPGW optical cables? 2, How long is the distance between DC and DRC site ?	**1. OPGW is on air** **2. As per rfp**
218	Scope of Work-Electrical	---	Connecting mains electricity to campus is customer's scope,Please confirm.	**Laying of 11kV UG cables from 11kV Outgoing Bays to Ring main unit and further to DRC Electrical room is in the scope of Bidder**
219	Scope of Work-Civil	---	Connecting the water, sewage, and rainwater drainage outlets to campus is customer's scope,Please confirm.	**Connecting the water, sewage, and rainwater drainage outlets to DRC campus will be in the scope of bidder**
220	Scope of Work-network	---	Provision Fiber connection point to campus is customer's scope,Please confirm.	**Provision Fiber connection point to campus will be in the scope of the bidder**
221	Scope of work	If using an existing surface water or an existing borewell for construction water, permissions to be obtained from authorities together with the agreement of local communities.	What are the authorities mean?	**Entitites authorised by the government to issue necessary permits/permissions**

222	Scope of work	3.02 Providing and Laying of Reinforced Cement Concrete RCC Mix M25 including precast, shuttering, Grouting of Pockets & underpinning but excluding steel Reinforcement	Whether it refers to special foudation type such as piling, which need speical equipments?	**As per RFP**
223	Financial forms-BOQ	8 CIVIL INFRA - DRC	Whether the items of 8-C-PART A and 8-C-PART B from page 18 is the same as that from page 22 which under same names?	**Bidders to propose thier solutions as per ASHRAE guidelines**
224	Financial forms-BOQ	8 CIVIL INFRA - DRC	As the quantity of concrete foundation is supplied, can you share the soil test report?	**Soil test report to be sumitted by successful bidder during the design phase**
225	Bidding Forms	This guarantee will expire (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful Bidder, or (ii) 28 days after the expiration of the Bidder's bid.	Need to mention specific expire date also.	**As per RFP**
226	GCC	12.3 In the event that the Employer fails to make any payment by its respective due date or within the period set forth in the Contract, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate(s) shown in the Appendix (Terms and Procedures of Payment) to the Contract Agreement for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.	Appendix (Terms and Procedures of Payment) shows that only AMC and FMS Services have interest term (0.25%per month of such delayed payment). Is there delayed payment interest terms for other schedules in Appendix (Terms and Procedures of Payment) ?	**As per RFP**

227	GCC	13.2.1 The Contractor shall, within 28 days of the notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix (Terms and Procedures of Payment) to the Contract Agreement, and in the same currency or currencies. 13.3 Performance Security 13.3.1 The Contractor shall, within 28 days of the notification of contract award, provide a security for the due performance of the Contract in the amount specified in the SCC.	Both Advance Payment Security and Performance Security to be provided within 28 days of the notification?	**As per RFP**
228	Contract Forms	The Employer shall instruct its bank to issue an irrevocable confirmed documentary credit made available to the Contractor in a bank in the country of the Contractor. The credit shall be for an amount of [. . . AMOUNT EQUAL to the total named in SCHEDUle 1 less the advance payment to be made for plant and mandatory spare parts SUPPlied from abroad. . .]; and shall be subject to the Uniform Customs and Practice for Documentary Credits 1993 Revision, ICC Publication No. 500.	1. What's the initial validity of L/C? 2. Only the amount of L/C for SCHEDUlE 1 is mentioned. All other supply series(SCHEDUlE 2-4) will also follow the same? 3. Within how many days of PI, the L/C will be issued?	**As per RFP**
229	Terms and Procedures of Payment	Five percent (5%) of the total or pro-rata CIP amount shall be paid upon the successful completion of the DLP period or SLA period, as mentioned in GSS Sub-clause 27.2 and SCC sub-clause 27.10. Such payment will be made in equal installment during such DLP or SLA period.	How many installment a DLP/SLA period need to be closed?	**As per RFP**

230	Terms and Procedures of Payment	Schedule No. 4 (a to c) - Installation and other Services Fifteen percent (15%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice. Fifteen percent (15%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice	What is the monthly application?	**As per RFP**
231	Contract Forms / Terms and Procedures of Payment	(B) Payment Procedures The procedures to be followed in applying for certification and making payments shall be as follows: a. Local Currency Eligible claims for local currency payment shall be made through withdrawal application (WA). Invoices shall be submitted to the Project Office which shall verify the completed jobs/works and certify the invoice for payment. The Project Office shall then recommend certified invoice for their payment to Project Management Directorate Office, which shall then forward to ADB for payment.	1. Is it only the NPR part that is paid through ADB? All the US dollar parts are via L/C? 2. What's the method of payment in ADB, L/C or T/T? 3. Please give the detailed process of ADB payment.	**As per RFP**

232	Contract forms	This guarantee shall expire no later than the earlier of (a) 18 months after our receipt of (i) a copy of the Completion Certificate; or (ii) a registered letter from the Contractor, attaching a copy of the notice to the project manager that the Facilities are ready for commissioning, and stating that 14 days have elapsed from receipt of such notice (or 7 days have elapsed if the notice was a repeated notice) and the project manager has failed to issue a Completion Certificate or inform the Contractor in writing of any defects or deficiencies; or (iii) a registered letter from the Contractor stating that no Completion Certificate has been issued but the Employer is making use of the Facilities; or (b) the…….day of……, 2……..	1. What's the (b) date? Is it the last date of 5 years that is mentioned under ITB 16.1 (b)? 2. For ITB 16.1 (b) does the 5-year period start from the effective date of contract?	**As per RFP**
233	Technical Specification - It Infra	Spine Switch (Qty: at least 2 for DC, at least 2 for DR): Provides at least 30 x 40/100G interfaces. At least 12 x 100G and 12 x 40G should be populated with multi- mode interfaces from day 1.	1. Are the interfaces of Spine connecting to DWDM included in day 1 interface requirement? 2. If included, what the type and quantity required in day 1 requirement? If not included, what the type and quantity are extra required?	**1. Yes** **2. As per RFP**
234	Technical Specification - It Infra	general requirement about IDAM&PAM5	1-IAM: How many IAM accounts need unified authentication and management? How many application systems need to be connected to the IAM platform?	**As per RFP**
235	Technical Specification - It Infra		2-PAM: How many PAM accounts are there? How many assets need to be managed and controlled through the PAM platform?	**As per RFP**
236	Technical Specification - It Infra	Solution must support versions of Windows Operating Systems, which are currently supported by Microsoft (System Integrator/Contractor should provide at least 100 core processor licenses of windows server 2022 standard edition).	How many terminal clients will be installed with EDR agent?	**As per RFP**

237	Technical Specification - Private Cloud	For DC: At least 200TB Usable Capacity with NVMe SSD, at least 500 TB Usable Capacity with SAS SSD, at least 500 TB Usable Capacity with NL-SAS across All Private Cloud and at least 200 TB of NL-SAS should be reserved for backup. For DR: At least 200TB Usable Capacity with NVMe SSD, at least 500 TB Usable Capacity with SAS SSD, at least 500 TB Usable Capacity with NL-SAS across All Private Cloud and at least 200 TB of NL-SAS should be reserved for backup. Storage disks should be hot swappable and field replaceable The Contractor / System Integrator should provide backup capacity licenses for 200 TB.	The RFP mentions using a mix of NVMe SSD, SAS SSD, and NL-SAS storage. However, in today's context, most modern applications prefer All-NVMe SSD because it offers better performance, faster access, and is easier to manage. We would like to understand why NL-SAS and SAS SSD are specifically asked for. Is it due to cost or existing systems? We are interested in proposing an All-NVMe SSD solution that meets or exceeds the required capacity and performance, and includes the 200TB backup capacity as mentioned. Please confirm if proposing All-NVMe SSD is acceptable, or if we must follow the exact storage types listed in the RFP.	**Proposed solution must provide Storage which support all possible disk types, including NVMe SSD, SAS SSD, and NL-SAS which has been mentioned in the RFP.**
238	Technical Specification - Private Cloud	The storage pool must support smoothly expand to 10 PB or above by simply adding additional disks in the same storage box or by adding storage nodes.	The RFP mentions that the storage pool must support smooth expansion to 10 PB or more, either by adding disks in the same storage box or by adding storage nodes. However, this requirement is somewhat unclear. We kindly request clarification on whether the solution must be based on a single storage box that can scale up to 10 PB, or if it is acceptable to meet this scalability requirement by adding additional storage nodes over time. Understanding this will help us design a solution that aligns fully with your expectations.	**As per RFP**
239	Technical Specification - Private Cloud	Private Cloud solution should support file level recovery of user's data.	Is this remote replication performed at the hypervisor level, or is it done using a third-party backup and replication solution?	**As per RFP**

240	Technical Specification - Private Cloud	To ensure scalability of the cloud platform, the bidding cloud platform should support flexible scaling of PaaS services (such as micro-services, application middleware, and DevOps), big data services (such as Hadoop and data warehouse), AI services (such as natural language processing, video technology, and voice interaction), and IoT services can be unified maintenance and management.	1. To support the mentioned AI services (e.g., NLP, video analytics, voice interaction), do you require GPU-enabled infrastructure within the cloud platform? 2. If yes, what types of AI/ML workloads are expected to run on GPU servers? 3. Do you have preferences for specific GPU models (e.g., NVIDIA A100, L40, or others)? 4. What is the estimated scale (number of GPU nodes or vGPU instances) required?	**As per RFP**
241	Technical Specification - Private Cloud	The platform must safeguard the webpage against tampering by monitoring website directories in real-time. It should also restore any tampered files or directories using backups to prevent important system website information from being compromised	Could you please clarify if you expect these file integrity monitoring and automatic restoration capabilities to be provided natively by the hyperconverged infrastructure platform, or via integrated security and backup solutions deployed alongside the infrastructure?	**As per RFP**
242	Technical Specification - Private Cloud	The container host can support scan vulnerabilities and configuration information in the container image, and also have the mechanism to protect the container running security including container escape detection, ransomware, file modification, etc.	Please confirm whether you expect these advanced container security functions to be native features of the hyperconverged infrastructure platform itself , or as part of integrated container security tools deployed on top of the infrastructure (e.g., Kubernetes-native or third-party security solutions)?	**As per RFP**
243	Technical Specification - Identity & Access management (IDAM)	Solution from an OEM that is CMMi LEVEL 3. Certification copy for the same to be submitted along with bid.	The inclusion of “or equivalent certifications” allows for broader vendor participation without compromising quality, by recognizing internationally accepted alternatives to CMMi Level 3, as long as they ensure comparable levels of process maturity, service quality, and information security—while still requiring certification proof for validation.	**As per RFP**
244	Technical Specification - Identity & Access management (IDAM)	"The proposed solution must be an industry standard solution from an OEM that is ISO 20000, ISO 27001:2022, ISO 14001:2015, ISO 9001:2015 to ensure the quality and security. Certification copy for the same to be submitted along with bid".	The inclusion of “or equivalent certifications” allows for broader vendor participation without compromising quality, by recognizing internationally accepted alternatives to specific ISO standards, as long as they ensure comparable levels of process maturity, service quality, and information security—while still requiring certification proof for validation.	**As per RFP**

245	Technical Specification - Identity & Access management (IDAM)	Solution should provide the capability for a user to self-register (create an external user account) by providing some business-determined proof of identity to the solution	Allowing self-registration by external users poses significant security, governance, and risk management challenges — which goes against most of the IAM provider's core mission of securing privileged access and enforcing tight control over identities. Further, self-registration for external user opens up attack surfaces (e.g., fake accounts, bot registrations). Due to this reason, we recommend this to be changed and allow only for internal AD users to self register and not for the external user account.	**As per RFP**
246	Technical Specification- Endpoint Detection and Response (EDR)	Solution should provide Endpoint Protection (EPP) and Endpoint Detection & Response (EDR) capabilities available in a single agent without requiring multiple software packages to be installed and it must have all security features like Host firewall, Vulnerability Protection, threat-intel, Device Control, Application Control, DLP, real-time analysis & threat hunting.	Requesting DLP to be removed from the endpoint agent requirements to avoid restricting vendor options, reduce system overhead, lower costs, and allow for more flexible, modular deployment of data protection, while keeping the focus on core EPP/EDR capabilities essential for threat prevention, detection, and response.	**As per RFP**
247	Technical Specification- Endpoint Detection and Response (EDR)	Solution must support versions of Windows Operating Systems, which are currently supported by Microsoft (System Integrator/Contractor should provide at least 100 core processor licenses of windows server 2022 standard edition).	Please remove the requirement to provide Windows Server 2022 licenses to separate software licensing from solution compatibility, allowing the organization to manage licenses independently while ensuring the solution remains aligned with Microsoft-supported Windows versions. Microsoft license and EPP/EDR is not inter connected unless its a specific Windows Product	**Pls refer price shedule in Volume-III**
248	Technical Specification- Firewall	Application controlling throughput (HTTP 100K) Minimum 50Gbps;	Please specify test object sizes (HTTP 64K or 100K) to reflect common benchmarking standards used by most vendors, ensuring fair and consistent throughput comparison.	**As per RFP**
249	Technical Specification- Firewall	Application controlling and IPS throughput (HTTP 100K) Minimum 30 Gbps.	Kindly replace the fixed object size (HTTP 100K) with “Enterprise Mix” to better represent realistic, mixed-traffic scenarios and improve the relevance of performance validation.	**As per RFP**
250	Technical Specification- Firewall	Support Number of concurrent Sessions (HTTP) Minimum 20,000,000.	Please revise the protocol scope from HTTP-only to TCP or HTTP to accommodate broader traffic types and ensure accurate measurement across different application environments.	**As per RFP**

251	Technical Specification-Firewall	Support Number of new Sessions (HTTP) per second minimum 1,000,000.	We request extending the scope to TCP or HTTP instead of limiting to HTTP only, as this will better reflect the solution's ability to handle high session rates across varied protocols.	**As per RFP**
252	Technical Specification-Firewall	please add	SSL inspection throughput is a very critical specification for firewall, as 99% of traffic is encrypted. Hence, requesting to add this specification for quality product procurement	**As per RFP**
253	Technical Specification-Server Load Balancer	The solution should support upto 32 virtual instances. Should have internal redundant Power supply with min 4 TB usable hard disk, 64 GB RAM and capability to host other 3rd party and open-source virtual network functions like SSL VPN, web application firewall etc.	Please revise the requirement to support up to 32 virtual instances with internal redundant power supply, a minimum of 240 GB usable hard disk, and 64 GB RAM. The platform should be capable of hosting third-party virtual network functions (VNFs) such as SSL VPN and web application firewall; however, these functions must not be open source, to ensure enterprise-grade support, maintainability, and security assurance.	**As per RFP**
254	Technical Specification-Server Load Balancer	Proposed device should have minimum 1x1GbE port for management and 16x10GbE SFP+ ports.	We request updating the port configuration to include a minimum of 1x 1GbE port for management, and 8x 1GbE SFP ports plus 8x 10GbE SFP+ ports. This combination ensures compatibility with existing infrastructure while supporting high-throughput requirements for core networking functions.	**As per RFP**
255	Technical Specification-Server Load Balancer	Proposed device should support upto 32 virtual instances with capability to run multiple virtual network functions like Linux-CentOS/ Ubuntu etc. in same appliance.	The mentioned specification is specific to vendors providing Load balancer build on top of linux platforms. Creating multiple virtual network functions like Linux CentOs/ Ubuntu is specific to these vendors. It has no use case in production SLB requirements. Hence requesting to generalize this specification for enterprise grade product and competetive bidding	**As per RFP**
256	Technical Specification-Server Load Balancer	The server load balancer should cater up to 40,000 SSL transactions per second on 2K key RSA and upto 25K TPS (ECDSA-SHA256). Device should support minimum 2.5 million L7 RPS.	We request the solution support up to 40,000 SSL transactions per second with 2K RSA keys and up to 25,000 TPS using ECDSA-SHA256, ensuring robust encryption performance. Additionally, the device should support either 2.5 million L4 requests per second (RPS) or a minimum of 900,000 L7 RPS, allowing flexibility in deployment scenarios based on the application load profile.	**As per RFP**
257	Technical Specification-Privilege access management (PAM5)	Solution should support online session content auditing and historical session content auditing;	The change of wording makes the specification more broader as the original one make it specific to limited vendors.	**As per RFP**
258	Technical Specification-Privilege access management (PAM5)	PAM solution should have the following components: 1.Console. 2.Workbench. 3.Audit.	The change of wording makes the specification more broader as the original one make it specific to limited vendors.	**As per RFP**

259	Technical Specification-Privilege access management (PAM5)	The proposed solution should have option to create the ACL to give more granular level authorization.	The change of wording makes it more generic. ACLs is one way of limiting access from specific Ips. In a reverse proxy mode, it is referred to as trusted host	**As per RFP**
260	Technical Specification-Privilege access management (PAM5)	Solution from an OEM that is CMMi LEVEL 3. Certification copy for the same to be submitted along with bid.	The inclusion of 'or equivalent certifications' broadens vendor participation without compromising quality by recognizing internationally accepted alternatives to CMMI Level 3, provided they demonstrate comparable levels of process maturity, service quality, and information security, and are supported by valid certification proof.	**As per RFP**
261	Technical Specification-Privilege access management (PAM5)	"The proposed solution must be an industry standard solution from an OEM that is ISO 20000, ISO 27001, ISO 14001, ISO 9001 to ensure the quality and security. Certification copy for the same to be submitted along with bid."	The inclusion of 'or equivalent certifications' enables broader vendor participation without compromising quality by recognizing internationally accepted alternatives to specific ISO standards, provided they demonstrate comparable levels of process maturity, service quality, and information security, and are supported by valid certification evidence	**As per RFP**
262	EQC		If some company owns its own data center in different countries including Indonesia . They are using this for commercial use also. Will they be eligible to participate in this bid? Is there anything else to meet even if they own Data center for commercial purpose	**As per RFP**
263	EQC		In the bidding document Section 3 - Evaluation and Qualification Criteria 2.4.2(Page 50) there is note for the requirement state as "Note: Bidder's in-house data centers shall not be considered, Bidders who have built their own Internet data center (IDC), for commercial use will be considered ". If we are owner of datacenter that has obtained T3 certificate(both Design & Construct) and we Managing and Operating this data center ourselves while renting it out to other ISPs,we believe that our qualifications meet your requirement requirement regarding T3 data center experience as stated.	**As per RFP**

264	EQC		Please confirm whether this is acceptabel ,or kindly provide further clarification if additional information is needed . Again ,Bidding document have note (the same page as above question 2,page 50) stated as “Mandatory Encl: Tier -III certification of any Data Center (DC) and/or Disaster Recovery Center (DRC) has to be attached by lead bidder / any JV partner, However, if the client has not opted for Tier-III certification, the bidder must provide a declaration on client’s letterhead stating that their data center is Tier-III compliant, but they have not opted for Tier-III certification.” Could please provide the template with content to indicate bidders submit what kind of proof document with its client’s letterhead document .	**As per RFP**
265	EQC		We have experience in Data Center EPC projects in China, and our partner in the Philippines has similar EPC experience within the Philippines. If we submit a bid as a joint venture, would this satisfy the requirement for having EPC experience outside of our respective home countries?	**As per RFP**
266	General		Considering the complexity of this bid , we kindly request your good office extend this bid for one month, so that bidders can submit qualified proposal to you .	**As per Amendment**
267	EQC	The qualifications of other firms such as the Bidder’s subsidiaries, parent entities, affiliates, subcontractors shall not be permitted.	We, China Mobile International(CMI) has completed the construction of 4 self-owned data centers in Hong Kong, Singapore, the United Kingdom and Germany since 2014, we would like to present our DC in HK and Singapore for bidding eligibility. While the one in Singapore was registered under name of China Mobile International Infrastructure (SG1) Pte. Ltd. Which is our branch name in Singapore. Will this be qualified for bidding?	**As per RFP**

268	EQC	These is one condition written in referred section - "Note: Bidder's in-house data centers shall not be considered, Bidders who have built their own Internet data center (IDC), for commercial use will be considered."	Where is this condition applicable for? For Section 2.4.2- Experience in Key Activities only? OR, For both the section, 2.4.1 Contracts of Similar Size and Nature, & 2.4.2- Experience in Key Activities. If it is applicable for both the section, our understanding is any company who owns its own Internet data center (IDC) used for commercial purpose is eligible for the Section 2.4.1 and 2.4.2. Is this correct? kindly confirm.	**As per RFP**
269	Technical Specification	The qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors shall not be permitted.	We, China Mobile International(CMI) has completed the construction of 4 self-owned data centers in Hong Kong, Singapore, the United Kingdom and Germany since 2014, we would like to present our DC in HK and Singapore for bidding eligibility. While the one in Singapore was registered under name of China Mobile International Infrastructure (SG1) Pte. Ltd. Which is our branch name in Singapore. Will this be qualified for bidding?	**As per RFP**
270	Technical Specification	Proposed Equipment should have 2*200G cards and the same should be populated with optical modules from day one.	We understand that required equipment should support 2x200G capacity however in "Optical System Capacity" sub-item equipment capacity 38Tb asked, could you please clairfy the exact requirement. Kindly confirm.	**As per RFP, RFP requirements are minimum.**
271	Technical Specification	The proposed equipment should support 8G~400G (FC1G/2G/4G/8G/12G/16G/32G,10GE/25GE/40GE/100GE/4 00GE) service access.	1. 400GE service access is contradicting with the requirement mentioned in clause 6.2.8 (above), wherein max proposed equipment proposal is being asked for 2x200G. 2. We also need confirmation about the FC requirement if its mandatory or good to have. Kindly confirm.	**RFP requirement are minimum , we accept any higher and better solution with no additional cost.**
272	Technical Specification	The proposed equipment must support 100G/200G/400G/600G/800G single-wavelength transmission, and the wavelengths must be tuneable.	We understand that 400G/600G/800G is not required. Kindly confirm.	**RFP requirement are minimum, We accept any higher and better solution with no additional cost.**

273	EQC	Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder’s participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder’s participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply	To allow wider participation and make the bid competitive, a request to relax the criteria that 'one (1) should have been executed outside the Bidder's Home Country', this clause restricts many technically sound bidders from participating in this RFP. Revised clause is as "Participation in at least 2 (Two) contracts that have been successfully completed within last 10 (Ten) years that are similar to the proposed contract where the value of bidder’s participation under each contract exceeds US$ 8.8 M (Equivalent NPR 1,222 M). The Similarity of the bidder’s participation shall be based on design, supply, installation and commissioning of Data Centre (DC) or Disaster Recovery Centre (DRC) with all required Hardware, Software, Cooling, Power supply system, Firefighting, Networking and Security etc. " Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country. Technical Capability is Not Country-Dependent: The capability to deliver a project of this scale and complexity — including compliance with international standards (e.g., ISO 27001, ISO 20000, CMMI level 3, etc.) — is not dependent on the project’s geographic location. Bidders with strong performance in their home markets often adhere to the same international benchmarks and best practices. Justification for Change: Encouraging Wider Participation: The requirement to have executed a similar project outside the bidder’s home country significantly limits participation, particularly for technically competent firms operating in large domestic markets. This restriction may inadvertently disqualify qualified bidders with extensive experience in complex and large-scale projects who have not had the opportunity to operate internationally due to business focus or regulatory constraints.	**As per RFP**

274	EQC	system, Firefighting, Networking and Security etc. Out of the Two (2) Contracts, one (1) should have been executed outside the Bidder's Home Country.	**Project Complexity and Value Already Ensure Competence:** **The existing requirement for participation in projects each exceeding US$ 8.8 million ensures that only firms with significant and relevant experience can qualify. This financial and technical threshold itself is a robust filter for competency and capacity.** **Global Challenges, Local Solutions:** Many countries have rapidly growing and technically mature ICT sectors. Local execution of large-scale data center and DRC projects can be as complex, regulated, and standards-driven as projects elsewhere. Disregarding these projects due to geographic origin discounts meaningful and relevant experience. **Promoting Fair Competition:** **Allowing bidders with high-value, technically comparable domestic experience would make the tender more competitive, driving better pricing and innovation, ultimately benefiting the project owner.** **We trust that the proposed revision continues to uphold the original intent of ensuring bidders have relevant experience, while allowing technically sound and capable firms to participate more equitably.**	**As per RFP**
275	EQC	Additional clarification	Requesting to give more clarity on the number of consortium and the number of subcontractors allowed to meet the clauses.	**As per RFP**

276	EQC	For the contracts in 2.4.1 and 2.4.2 above and/or other Contracts (substantially completed and under implementation) as prime contractor, Joint Venture Partner, or Subcontractor between 1st January 2020 and Bid submission deadline, experience in managing ES risks and impacts in the following aspects: 1. Soil erosion from trenching, excavations and vegetation clearing. 2. Soil and/or water contamination from sediment-laden runoff due to trenching, excavations and vegetation clearing, or accidental release of hazardous substances including oils (including GIIP for transformer bund/sump design) and PCBs, or inadequate management of solid and liquid wastes. 3. Air pollution (dust and exhaust emissions) from construction activities, and movement of construction vehicles and trucks. 4. Noise and vibration including assessment thereof from earth-moving equipment, heavy vehicles and trench compacting. 5. Traffic congestion, creation of hazardous driving conditions and obstruction of access during transport and offloading of heavy modular container. 6. Occupational health and safety, including exposure to PCBs and asbestos and compliance with ILO GIIP guidelines. 7. Community health and safety, including exposure to PCBs and asbestos.	Requesting to remove this clause as Eligibility, request to ask for undertaking to perform these activities before initiation of DC work	**As per RFP**
277	EQC	Availability of a valid ISO certification or internationally recognized equivalent (equivalency to be demonstrated by the Bidder), and applicable to the worksite: 1. Quality Management Certificate ISO 9001. 2. Environmental Management Certificate ISO 14001. 3. Health and Safety Management Certificate ISO 45001.	Request to remove as Bidder's eligibility 3. Health and Safety Management Certificate ISO 45001., this specifically for OEM	**As per RFP**

278	EHS	Availability of in-house policies and procedures for ESHS management: For example: 1. Existence of an Ethics Charter. 2. Existence of a system for monitoring compliance with EHS commitments for the Bidder's Subcontractors and all its partners. 3. Existence of an Environmental Policy. 4. Existence of a Health and Safety Policy. 5. Existence of official company procedures for the management of the following: - EHS resources and facilities, and EHS monitoring system; - Traffic Management Practice; - Hazardous Products Management Practice; - Erosion and Sedimentation Practices; - 1Control of infectious and communicable diseases (HIV/AIDS, malaria, COVID 19 etc.)	Request to allow the declaration for this clause.	**As per RFP**
279	EHS	Availability of in-house personnel dedicated to EHS issues: - Environmental Specialist - Health and Safety Specialist - Environment, Health and Safety Manager - Environmental Specialist (Full time, On-site) - Health and Safety Specialist (Full Time, On-site) with National Examination Board in Occupational Safety and Health (NEBOSH/IOSH) Certification or similar qualification - Health and Safety Supervisor(s), Full-time On-site per SS (maximum one supervisor per 50 workers) - Labor Specialist (full time, on-site) - Ecologist (part time, on-call	Request to allow the declaration for this clause.	**As per RFP**
280	Technical Specification	LCD Interface for IP/Alarm Display,Not supported	Kindly confirm if LCD interface is mandatory or if equivalent CLI/GUI access is acceptable.	**As per RFP**
281	Technical Specification	Access Service Type – FC1G/2G/4G/12G,Not supported	Please clarify whether these specific Fibre Channel rates are mandatory or optional.	**As per RFP**

282	Technical Specification	Line Side Capacity- 600G/800G,Not supported	Please clarify whether these specific Fibre Channel rates are mandatory or optional.	**As per RFP**
283	Technical Specification	System Capacity – 38 Tbps in C-band, Supports up to 32 Tbps,	Kindly confirm if a scalable capacity of 32 Tbps is acceptable.	**As per RFP**
284	Technical Specification	Layer-1 AES-256 Encryption,Not supported	Please confirm if encryption is mandatory, or if it may be considered optional in this project.	**As per RFP**
285	Technical Specification	All-in-one Integration of Optical Boards,Not supported	Is all-in-one integration mandatory, or can modular implementations be accepted?	**As per RFP**
286	Technical Specification	Auto-deployment Features,Not supported	Please clarify whether automated commissioning and fiber discovery are mandatory.	**As per RFP**
287	Technical Specification	Management Interface – SNMPv3,Not supported	Please confirm if SNMPv3 is strictly required for NMS integration.	**As per RFP**
288	Technical Specification	NMS FCAPS – Accounting Function,Not supported	Is the accounting function mandatory for NMS compliance?	**As per RFP**
289	Technical Specification	NMS – Northbound Interface,Not supported	Please confirm if a northbound interface to OSS/NOC is mandatory.	**As per RFP**
290	Technical Specification	Certificates – SAN & CC,Not supported	Kindly confirm if absence of SAN/CC certificates is acceptable with equivalent quality documentation.	**As per RFP**