International Institute of Information Technology
(MIIT Mentoring Cell)

Date: 7th February 2018

Tender Reference: MIIT/41/18 for supply, installation, testing & commissioning and onsite support for installation and setting up of Networking and Security Laboratory for Myanmar Institute of Information and Technology (MIIT) at Mandalay in Myanmar on turnkey basis.

Following clarifications are issued in response to the queries received from Prospective bidders:

Sl no	Tender Technical Queries	Clause as published in the tender	Remarks/sub mission/Justifi cation	Clarifications/Corrigend a/Amendment
01	Section 1, Clause No 2 (d), Page no 3	Self-Attested copy of VAT/ CST, Service Tax Number/ Registration certificate, GST as applicable.	As GST is applicable across nation from 1st July 2017, we request you to kindly allow the submission of - Self attested copy of valid GST Certificate & PAN Card of Company	The terms and conditions are consistent with other tender issued for the same project. No change.
02	Section 1 Page No 4 Clause No 2 (i) & Page No 6 Clause No 4.2, Page no 4 & 6	The copy of Supply Orders/ Contracts/ Agreements issued by/ signed with Government of India (Ministry/ Department/ Undertaking/ PSU/ Educational Institutions such as I IT's, NIT's, or other such Central Universities/Banking sector/IT-SEZs/Technology parks/ Stock/Commodity exchanges and reputed private organizations including educational institutions in India) for similar work, executed by the bidders in last five years ending December 31st 2017. The bidder should also enclose the completion certificate duly issued by the end user. The bidder should also enclose the completion certificate duly issued by the end user. The bidder should have completed at least ONE similar work not less than Rs. 1.68 Crore OR TWO similar works not less than Rs. 1.05 Crore each OR THREE similar works not	Please remove Private Organizations Order/s as this will lead to no means to verify the claim being made by the bidder & authenticity of order & its completion	No change.

		less than 84 Lakhs each. The similar work means supply & installation of all/ most of the items mentioned in this tender document in a single project on turn-key basis in India/abroad.		
03	Section 1 Clause No 2 (m) Page no 4	Undertaking to the effect that a Performance Bank Guarantee (PBG) of 10% of the order value will be submitted within 15 (fifteen) days of the receipt of Supply Order from IIIT Bangalore	Please allow submission of 10% Performance Bank Guarantee with in 30 days from the date of reciept of supply order by successful bidder as all reputed banks have process of approval to customer format.	No Change
04	Section II Clause No 1 page 6	Delivery Period / Project Timelines The delivery and installation at site(s) must be completed within 70 days from the date of placement of supply order by IIIT Bangalore.	Please allow minimum 180 days for the delivery & installation at site	No change, the delivery timelines remain unchanged.
05	Section II Clause No 6.2 page 7	The bidders registered with NSIC / MSME may claim exemption from submission from EMD. In this case bidder should submit a copy of valid NSIC/MSME registration certificate along with the technical bid. If bidder submits NSIC/MSME certificate in lieu of EMD then its technical competence to participate in the tender would be ascertained.	NSIC/MSME exemption is valid only for services and the products manufactured by registered company with NSIC / MSME and not for trading items from mutli national equipment manufacturer products. Since product desired are from leading original equipment manufacturer, such bidder enclsoing NSIC / MSMW shall not not qualify as MSME, therefore we request you to delete the clause.	No change
06	Section II Clause No 4 (4.1) & - MAF page 6 & 24	The bidding agent shall furnish an undertaking/ authorization from the Principal/ Manufacturer for participating in this tender clearly mentioning that all necessary support for installation and commissioning of the tendered equipment shall be provided by the Principal to the bidding agent.	As per MAF format it clearly stated in second paragraph that - M/s _____ (Name of the manufacturer) within the scope of requirement as per the tender mentioned above through its authorised partner M/s _____ (Name of the bidder) shall provide support & product warranty services for a minimum period of one year form the date of installation and commissioning. Please confirm if any additional certificate need to be	The MAF Only states that OEM will provide support post installation and commission. Bidder needs to include adequate documentation to outline that OEM support would be there for the installation and commission as well.

			enclosed from OEM in our technical bid that all necessary support for installation and commissioning of the tendered equipment shall be provided by the Principal to the bidding agent, although MAF meets the requirement for participation. Kindly clarify	
07	Section III 1, page 11	Bidders should quote the prices in INR(for Indian Bidders) or in US $(for foreign bidders) and as per the format given in Price Schedule at Section – V of this document. If the rates are quoted in US Dollars then for the purpose of evaluation of price bids, the prevailing rate of exchange as on the date of technical bid opening will be taken into account for arriving at the equivalent rupee value of the quote.	Kindly allow fair techno-commercial comparison between Indian & Forigen bidders, by allowing Indian bidders also to quote in USD. IIIT Bangalore may seek the name of foreign partner/distributor on whom the LC shall be established from Indian Bidder.	The terms and conditions are consistent with other tender issued for the same project. No change.
08	Section III & MAF Format 6 , page 11 & 24 - MAF	All the items covered in the schedule of requirements, shall carry minimum 2 (two) years on site comprehensive warranty from the date of its installation & commissioning.	Please confirm if the warranty required is minimum 2 Years or One Year as per MAF Format on page no 24.	Warranty would be required for 2 years.
09	Section III , clause 7 page 12	i. IIIT Bangalore shall release 5% of the payment upon purchase order subject to receipt of the performance bank guarantee as outlined in clause 8 below. ii. IIIT Bangalore shall release 35% of the payment upon dispatch of the tendered items subject to submission of original shipping documents and BL. iii. IIIT Bangalore shall release 30% of the payment upon delivery of the tendered items at MIIT subject to satisfactory certificate of receipt by Embassy of India, Yangon and/or MIIT/IIIT- Bangalore. iv. Payment of 30% of the purchase order value will be made after physical	i. IIIT Bangalore shall release 80% of the payment on dispatch of the tendered items against submission of Invoice, Packing List, Copy of Insurance & Chartered Engineer Certificate in original to IIIT Bangalore. ii. Balance Payment of 20% of the purchase order value will be made after the satisfactory successful installation and commissioning of the tendered items on certification by MIIT/ Indian Mission in Myanmar. iii. In case of foreign/Indian bidders who quoted in US $, letter of credit(LC) will be opened and payment would be released as per 7(1) and 7(2). Indian bidder should nominate distributor for establising the LC by IIIT	The terms and conditions are consistent with other tender issued for the same project. No change.

		verification by a Project Monitoring Committee (PMC). v. In case of foreign bidders who quoted in US $, letter of credit(LC) will be opened and payment would be released as per 7(1), 7(2), 7(3) and 7(4).	Bangalore / billing purposes only. All the delivery, installation, testing & commissioning responsibility of the project shall rest with Indian bidder as per tender terms including submission of PBG incase of Indian bidder decide to bid in US$.	
10	Section III clause 9 page 24	MANUFACTURER AUTHORISATION FORMAT	We request you to kindly allow MAF as per OEM format. Since MNC have their own format	The change is accepted, subject to the MAF including all aspects that are covered in the letter as outlined in Annexure in the tender document
11	Section - V Commercial Schedule page 19	S. No 11 i.e. Cable Tester & S. No 12 Crimping tool Set	Please confirm if the qty required is as per the following since Qty is not mentioned in Commercial Schedule: S. No 11 i.e. Cable Tester - 5 Nos S. No 12 Crimping tool Set - 10 Nos	Please see the revised specifications in Annexure I
12	SECTION IV - Schedule of Requirement Item S. No 2 page 16, Technical Queries	Integrated Services Router Type II - Enhanced limited lifetime warranty (ELLW) with next business day (NBD) advance hardware replacement and 90- day access to Cisco Technical Assistance Center (TAC) support	Please change it to OEM / Bidder / Local Service Provider Technical Assistance Center (TAC) support	Please see the revised specifications in Annexure I
13	Section I: Invitation for Bids (IFB), clause 2(i) , Page no 4 , 6	The copy of Supply Orders/ Contracts/ Agreements issued by/ signed with Government of India (Ministry/ Department/ Undertaking/ PSU/ Educational Institutions such as IIT's, NIT's, or other such Central Universities/Banking sector/IT SEZs/Technology parks/ Stock or commodity exchanges and reputed private organizations including educational institutions in India) for similar work, executed by the bidders in last five years ending March 31st 2017. The bidder should enclose the completion certificate duly issued by the end user. The bidder should have completed at least ONE similar work not less than Rs. 6.4 Crore OR TWO similar works not less than Rs. 4 Crore OR THREE	Please note for Private organization its very difficult to check authenticity of the purchase order/payments receipt and completion. We therefore, request you to delete the same from Eligibility criteria.	No change

		similar works not less than Rs. 3.2 Crore. The similar work means supply & installation & on-site support of all/ most of the items mentioned in this tender document in a single project on turn-key basis in India/ abroad.		
14	Section II - Instruction to Bidders , clause 1 , page 6	Delivery Period / Project Timelines The delivery and installation at site(s) must be completed within 70 days from the date of placement of supply order by IIIT Bangalore.	This is a complex integration project. Hence it is requested that 180 days for the delivery & installation at Site(S).	No change
15	Section III: Special Conditions of Contract (SCC) , clause 7 , page 12	IIIT Bangalore shall release 5% of the payment upon purchase order subject to receipt of the performance bank guarantee as outlined in clause 8 below. ii. IIIT Bangalore shall release 35% of the payment upon dispatch of the tendered items subject to submission of original shipping documents and BL. iii. IIIT Bangalore shall release 30% of the payment upon delivery of the tendered items at MIIT subject to satisfactory certificate of receipt by Embassy of India, Yangon and/or MIIT/IIIT-Bangalore. iv. Payment of 30% of the purchase order value will be made after physical verification by a Project Monitoring Committee (PMC). v. In case of foreign bidders who quoted in US $, letter of credit(LC) will be opened and payment would be released as per 7(1), 7(2), 7(3) and 7(4).	As per industry norm we do not get credit of more than 30 days. Looking at the current payment terms 40% against dispatch would mean that our payment realization cycle would be 4-5 months for 30% payment on delivery and further 2 months for 30% against installation. We therefore request to make it atleast 70% against dispatch and balance 30% after Installation & Commissioning sign off from Embassy of India, Yangon and / or MIIT/IIIT- Bangalore in INR & USD.	The terms and conditions are consistent with other tender issued for the same project. No change.
16	Section 1, Invitation for Bids , clause 4	Bid Submission	We also request you to kindly extend the date of bid submission by 15 days.	The revised bid submission is now 21st February 2018

Annexure I
REVISED SCHEDULE OF REQUIREMENT

S. No	Item	Description	Qty
	Switch Type 1		**3**
1	Ports	Switch should have minimum 24 No's of 10/100/1000 Base-TxPoE ports (Duplex, Full, Half) and 4 x 1GE Uplink port.	
	Power Rating	Switch PoE power rating should be 375W or more.	
	Switching Capacity	Should have minimum switching capacity of 52 Gbps.	
	Other requirement	All ports on the switch should work on line rate.	
	Readiness	Should be IPv4 and IPv6 ready from day one	
	Stacking Port & Bandwidth	The switch should support dedicated stacking port separate from uplink ports with minimum 48 Gbps of stacking bandwidth.	
	Protocols	Shall support IEEE 802.1s Multiple Spanning Tree Protocol and provide legacy support for IEEE 802.1d STP and IEEE 802.1w RSTP or equivalent technology and static routes.	
	Security	Port Security to secure the access to a port based on the MAC address of a user's device.	
	Feature	The aging feature to remove the MAC address from the switch after a specific time to allow another device to connect to the same port.	
	vLAN Support	Switch should support Port-based and 802.1Q tag-based VLANs, MAC-based VLAN, Guest VLAN, Private VLAN Edge, also known as protected ports, with multiple uplink	
		All ports should have features of auto- negotiate, flow control (802.3x), port based network access control (802.1x), port security, MAC filtering etc.	
		The switch should support IPv6 Guard, IPv6 RA-Guard, IPv6 DHCP-Guard, Source-Guard features	
		Should be NDPP or EAL3 certified at the time of Bidding	
	Additional Features	All necessary SFP's, interfaces, connectors, patch cords (if any) & licenses must be delivered along with the switch from day one.	
	Power Cord	Switch should be 19" Rack mountable & the switch should be supplied with Indian standard AC (5Amp) power cord.	

		Switch Type 2	3
2	Ports	Standalone switch should have minimum 48 x 10/100/1000 Ethernet PoE+ ports with minimum 4 x 1 Gigabit Ethernet uplink with 640 WAC power supply	
	Integrated wireless controller capability	Should support up to minimum 10G of wireless capacity per switch	
		Should support for up to 50 access points and 1000 wireless clients on each switching entity (switch or stack)	
	Siwtching Capacity	Should support minimum 176Gbps switching capacity	
	Stacking bandwidth	Should support minimum 160Gbps Stacking bandwidth	
	MAC Address	Should support minimum 32K MAC Address	
	DRAM	Should support minimum 4GB DRAM	
	Flash	Should support minimum 4GB Flash	
	vLAN IDs	Should support minimum 4K vLAN IDs	
	Access Point Support	Should support minimum 24 access points per switch/stack	
	Wireless Clients	Should support minimum 950 wireless clients	
	WLAN Support	Should support minimum 60 WLAN per switch	
	Virtual Interfaces	Should support minimum 1k switched virtual interfaces	
	Wireless bandwidth	Should support Up to maximum 40Gbps on 48 Port	
	Forwarding rate	Should support minimum 75 Mpps	
	Advanced Security Features	Should have Port security that secures the access to an access or trunk port based on MAC address.	
		Should support DHCP snooping preventing malicious users from spoofing a DHCP server	
		Should support Dynamic ARP Inspection (DAI)	
		Should support IP Source Guard, Unicast Reverse Path Forwarding and Bidirectional data support on the SPAN.	
		Should have flexible authentication including 802.1x, MAC authentication bypass and web authentication using a single consistent configuration	
		Should support Comprehensive policy management	
		Should support Multi domain authentication allowing an IP Phone and PC to authenticate on the same switch port while on voice and data vLAN	
		Should support MAC Address notification for adding / removing the user from network	
		Should support Mobility & Security for secure, reliable wireless connectivity and proactive blocking of known threats (if any)	
		Should support TACACS+ & RADIUS authentications, Spanning Tree Root Guard and Wireless end to end security	

	Resiliency	Should have high availability, high performance IP routing and Superior QoS.	
	Humidity support	Should support 5% to 96% no condensing relative humidity	
	Operating Temperature	Should support -5ºC to +45ºC	
	Safety Certifications	Should have UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition etc	
	Environmental Compliance	Should be RoHS 5 complied	
3	**Router**		**8**
	Form Factor	The Router shall have maximum 1RU form factor & should support multi core process, modular architecture and high performance architecture	
	Performance	Should support 500 Mbps to 100 Mbps and 1Gbps to 300Mbps.	
	Capability	Should support a fabric allowing high bandwidth module to module communication without compromising routing performance	
	Interface & Ports	Should support 3 onboard WAN or LAN: 10/100/1000 Ports, 2 Rj 45 based Ports, 2 SFP based Ports, 2 Low Density Port Modules, 1 internal module slot	
		The router shall support hosting of 3rd party & custom application on a module which can be easily integrated into router.	
	Switch Ports	Should support modular LAN Switch ports & switch ports with PoE.	
	RAM	Should support dedicated Data Plane & Control Plane DDR2 ECC DRAM	
		Should support 4GB default DDR2 ECC RAM with maximum support up to 16GB DDR2 ECC RAM	
	Security	Shall support Access Control Lists (ACLs), Extended ACLs, Time-Based Access Lists Using time ranges (ACL), advanced application inspection and control.	
		Shall support functionality to protect the route processor from un necessary or malicious levels of traffic, including DoS attack	
	Firewall feature	Should support secure provisioning, advanced firewall features, Stateful firewall, Firewall Zone based policies, VRF-aware Firewall, high availability	
		Shall support transparent firewall feature: SSL VPN, Access Control & Application ACL Support	
	VPN	Shall support Advanced VPN features, Standard IP Security (IPSec), IPSEC for IPv4 and IPv5, IPSec high availability, VRF-Aware IPSEC, Stateful failover for IPSec, Digital Encryption Standard (DES) for encryption, 3DES for Encryption, IKEv1&v2, Dead peer detection on demand and periodic, RFC 4869	

	Additional Features	Shall support Group Domain of Interpretation, site to site VPNs, GRE-based IPSec VPN, dynamically established spoke to spoke VPN capabilities over public network	
	Content Filtering	Shall support Content filtering & protect against malware.	
	Intrusion Prevention System (IPS) feature	Shall support IPS functionality in software, inline IPS functionality, VRF-aware IPS, IPS functionality in software, Multi Virtual Route Forwarding (VRF) Customer Edge (CE) for IPS	
	Voice Support Feature	Shall support Voice DSP's , Video DSP's, DSP Module Slots Ports, Local Conferencing, Phones as a integrated Router & PBX	
	NET Flow Feature	Shall support Collection of IP traffic information, anomaly-based detection of DDoS attacks and mechanism for application performance and usage pattern as security	
	Protocols	Shall support IPv4 , IPv4/IPv6 Dual Stack, Static Routes, OSPF, EIGRP, BGP, BGP Router Reflector and IS-IS protocols features	
	PFR	Shall support for improvement of application performance and availability, selection of best path for each application based upon - reachability, delay, loss, jitter & mean opinion score (mos).	
	IPv6 features	Shall support IPv6 & IPv6 plug and play network services	
4	**Network / Server 42 U Enclosure Rack**		8
	Description	Enclosure for low to medium density server and networking applications that either require additional equipment clearance space or more open space for ease of access in the rear of the enclosure. Compact width to optimize data center space. Minimum 42U height to easily roll through doorways	
	Dimensions	600mm Wide x 1200mm Deep Enclosure with Sides Black	
	Maximum Height	Shall have 78.39 inches maximum height	
	Maximum Width	Shall have 23.62 inches maximum width	
	Maximum Depth	Shall have 47.24 inches maximum depth	
	Minimum Mounting Depth	Shall have 7.52 minimum mounting depth	
	Maximum Mounting Depth	Shall have 41.26 maximum mounting depth	
	Rack Color	Shall have Black color	
	Vertical Post	Shall have 16 Gauge	
	Front Door	Shall have 16 Gauge	
	Rear Door	Shall have 18 Gauge	
	Roof	Shall have 18 Gauge	
	EIA Mounting Rails	Shall have 14 Gauge	
	Side panels	Shall have 18 Gauge	
	Certification Approvals	Shall have UL 2416, UL 60950-1	

	Compliance	Shall be RoHS, REACH: Contains No SVHCs	
5	**8-Port Multi-Platform Analog KVM**		**8**
	Description	Minimum: 8 Port Multi Platform Analog KVM	
	Input Frequency	Shall support 50/60 Hz Input frequency	
	Add ons	Shall include C13-C14 power cord, Configuration cable, Documentation CD, Firmware upgrade cable, NEMA 5-15 power cord, Rack Mounting brackets, User Manual	
	KVM Color	Should be Black color	
	Operating Environment	Shall support 0 - 50 °C	
	Regulatory Approvals	Shall AS/NZS 3548 (C-Tick) Class A,CE,FCC Part 15 Class A,ICES-003,IEC 60950,UL 60950,VCCI	
	Hot Pluggable Operation	Shall be capable to Add or remove servers without having to power off the switch.	
	Multi-platform Support	Shall support Windows, Sun, Unix and Linux compatible.	
	Size	Minimum 1U	
	Compliance	Shall be RoHS, REACH: Contains No SVHCs	
6	**Compatible KVM USB Cable**		**10**
7	**KVM PS/2 Cable for KVM**		**10**
8	**LAN Cable (1000 Meter / Roll)**		**2**
9	**Rj 45 Cat 6e Cables Connector (Boxes)**		**20**
10	**Cable Testers**		**5**
11	**Crimping tool set**		**10**
Note	1. For ease of Integration offered Switches & Routers should be of same OEM make 2. For ease of integration KVM Switch required cables should be from same OEM make.		

Annexure II
REVISED COMMERCIAL SCHEDULE

S. No	Item	Qty	Rate/Unit (INR/USD)	GST (INR)	Total (INR/USD)
		(X)	(A)	(B)	=(A+B)*X
1	Switch Type 1	3			
2	Switch Type 2	3			
3	Router	8			
4	Network/Server Enclosure	8			
5	8 Port Multi Platform Analog KVM	8			
6	USB Cable for KVM	10			
7	PS/2 Cable for KVM	10			
8	Reputed LAN Cable (1000 Meter/Roll)	2			
9	Connector (Boxes)	20			
10	Cable Tester	5			
11	Crimping tool Set	10			
	Sub Total				
	Discount(if any)				
	Grand Total				

Total Amount (In Words) :_____

Note

1. Do not quote optional items against the requirement mentioned in this tender.
2. The price quoted above should not be inclusive of any taxes/levies. Taxes/levies if any must be mentioned separately along with the price bid. IIIT-Bangalore shall reimburse for these taxes/levies based on submission of relevant documents including registration certificates at each payment stage.
3. Discount (if any) to be offered should be mentioned against in the respective cell provided above. In case it is mentioned elsewhere it will not be considered for the purpose of price comparison.
4. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
5. The bidder must quote for all the items mentioned under Section IV – Schedule of Requirement. The lowest price criteria shall be applied on the total composite amount of all items taken together.