

## Clarifications for "Technical Specification for Wired and Wireless (inStem)"

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Section : Pre-qualification for bidder(Mandatory requirements), Page 9 of 24, Point 1

The OEM and Partner should each have executed at least 5 projects of similar scale and value in India, using a architecture and technologies similar to that being proposed in their quotation against this tender. Purchase order copies with certificate of satisfactory completion from the IT manager (of the same institution as purchase order provided) must be submitted with the technical bid. The OEM and partner should have executed projects of similar technology, scale and value at premier Indian Defence organizations or premier Indian Academic and Research institutions like IISc, TIFR, IISER, IIT, JNCASR or institutions of equivalent stature.

NCBS Clarification: Purchase orders copies should include 5 projects awarded to the OEM(through any partner) and 5 projects awarded to Partner(in collaboration with any OEM). PO copies must be by any Indian Institute of equivalent stature as per RFQ.

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Section : Pre-qualification for bidder(Mandatory requirements), Page 9 of 24, Point 9

Both wired and wireless solutions offered against this tender must be from the same OEM.

NCBS Clarification: This is a requirement of instem so wired and wireless solution both must be from same OEM

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Section : Pre-qualification for bidder(Mandatory requirements), Page 9 of 24, Point 10

Wired and wireless equipment quoted by the OEM/partner must be supported for full configuration, management and monitoring by a single NMS package. The NMS should be part of the solution proposed.

NCBS Clarification: NMS package offered can be from any OEM but should meet requirements as per RFQ

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Section : Pre-qualification for bidder(Mandatory requirements), Page 9 of 24, Point 11

Vendor should get 80% in each category as well as overall under technical evaluation to qualify for opening financial bids.

NCBS Clarification: As mentioned in RFQ, qualification marks is 80% for each category as well as total marks.

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Section : Pre-qualification for bidder(Mandatory requirements)  
Regarding MAF letter

NCBS Clarification: Submission of MAF letter from OEM is not part of the RFQ and bidder may submit MAF. InStem reserves the right to verify authorisation of bidder with the OEM, if necessary at any point of time.

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Section : Wired Switching, Category 1(Core switches), Page 10 of 24  
Stacking ports to be independent of uplink ports.

NCBS Clarification: Stacking ports should not be part of the minimum ports

requested. This applies to distribution switches as well along with the requested minimum uplink ports should not be used as stacking ports.

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Section : Wired Switching, Category 1(Core switches), Page 10 of 24  
Should support SDN compatibility

NCBS Clarification: SDN should be supported for future use. This applies to distribution switches as well.

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Section : Wired Switching, Category 1(Core switches), Page 10 of 24  
Should support both IPv4 & Ipv6, static and dynamic routing protocols (RIPng, OSPFv3, VRRP) from Day 1.

NCBS Clarification: More advanced/newer dynamic routing protocols are also acceptable. This applies to distribution switches as well.

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Section : Wired Switching, Category 1(Core switches), Page 10 of 24  
The Switch should support 200K MAC addresses and minimum 4096 VLANs.

NCBS Clarification: As per RFQ, core switches(1U) must support 200K MAC addresses. All features which are dependent on the hardware are mandatory.

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Section : Wired Switching, Category 1(Core switches), Page 11 of 24  
Should support minimum of 100K IPv4 entries.

NCBS Clarification: As per RFQ, core switches(1U) must support minimum of 100K IPv4 entries.

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Section : Wired Switching, Categories 2,3,4(Distribution switches), Page 11,12,13  
The Switch should support 30K MAC addresses and minimum 4096 VLANs

NCBS Clarification: As per RFQ, distribution switches must support 30K MAC addresses.

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Section : Wired Switching, Categories 2,3,4(Distribution switches), Page 11,12,13  
Should support minimum of 30K IPv4 entries

NCBS Clarification: As per RFQ, distribution switches(1U) must support minimum of 30K IPv4 entries.

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Section : Wired Switching, Categories 2,3,4(Distribution switches), Page 11,12,13  
Redundant power supply

NCBS Clarification: Power supplies can be fixed or hot swappable. Redundant power supplies should be provided from day 1

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Section : Wireless Equipment, Controller, Page 14, Point 2(Virtual appliance)  
1 U standard rack mounted hardware (Latest generation Xeon CPU with minimum 6 cores or better and memory not less than 16 GB) of reputed make/brand to be supplied with dual port 10G SFP+ ports and dual port 1G copper Ethernet to host the VM and RPS

NCBS Clarification: Specification of RAM/CPU are minimal requirements but should

also meet the minimum hardware requirements of controller application as required.

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Section : Wireless Equipment, Controller, Page 14, Point 4  
Controller unit should be scalable up to minimum 500 Access Points

NCBS Clarification: As per RFQ, Controller must be scalable to connect a minimum 500 Access Points

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Section : Wireless Equipment, Controller, Page 16, Point 26  
The controller should be able to present a customizable dashboard with information on the status of the WLAN network.

NCBS Clarification: Dashboard without customization is also acceptable. Software Application(Only Controller Web interface) features which are not dependent on the hardware and if it is unique to certain OEM will be considered as optional.

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Section : Wireless Equipment, INDOOR Access Point, Page 18,20, Point 5  
Maximum and minimum transmission power for 2.4Ghz and 5Ghz. to be indicated.

NCBS Clarification: As mentioned in RFQ, maximum and minimum transmission power needs to be mentioned. This is applicable to Outdoor Access points as well.

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Section : Wireless Equipment, INDOOR Access Point, Page 19,20, Point 17  
Must be 802.11ac Wave 2 Standard

NCBS Clarification: As mentioned in RFQ, Access Point must be 802.11ac Wave 2 Standard. This is applicable to Outdoor Access points as well.

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Section : Optional Items, Page 21  
NMS License and AP License for optional items

NCBS Clarification: Licenses must also be included per AP or per switch basis

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Section : Optional Items, Page 21, Point 3  
Switches with minimum 24 ports of 40G QSFP+ (unpopulated) (Quantity: upto 2nos) and remaining specifications same as mentioned for core switches (Line item 1 under wired switching). Should include 4 number(per switch) QSFP+ to SFP+ breakout cable(DAC) and stacking cables. Price must be specified per switch(1 number) including cables and instem will decide the number of switches during commercial evaluation

NCBS Clarification: Optional 40G Switch should be considered as separate line item and not to be related to core switch.



Institute for Stem Cell Biology and Regenerative Medicine

Ref: INS/F-5514/2017-2018(Y)

November 27, 2017

Addendum No:II

Ref. 1): Tender Notice No: 006/2017-2018, 2): INS/F-5514/2017-2018 (Y)

The following Addendum is issued to our Tender, under Reference No: INS/F-5514/2017-2018(Y) to amend Sl.No. 8, 9, I, II, III, IV, 26 (page. No:9, 9, 10, 11, 12, 12, 16) Technical Specifications of Wireless Equipment.  
**FOR: ANNEXURE A – Technical Specifications**

Networking for inStem			
FOR			READ
Page no	Sl. No.	Description	Description
9	8	The core and edge ethernet switching equipment must run identical operating systems.	The core and edge ethernet switching equipment preferably run identical operating systems.
9	9	Both wired and wireless solutions offered against this tender must be from the same OEM.	Both wired and wireless solutions offered against this tender preferably be from the same OEM.
10	I	The Switch should support 200K MAC addresses and minimum 4096 VLANs (Wired Ethernet Switching)	The Switch preferably support 200K MAC addresses and minimum 4096 VLANs.
11	II	The Switch should support 30K MAC addresses and minimum 4096 VLANs (Wired Ethernet Switching)	The Switch preferably support 30K MAC addresses and minimum 4096 VLANs
12	III	The Switch should support 30K MAC addresses and minimum 4096 VLANs (Wired Ethernet Switching)	The Switch preferably support 30K MAC addresses and minimum 4096 VLANs
12	IV	The Switch should support 30K MAC addresses and minimum 4096 VLANs (Wired Ethernet Switching)	The Switch preferably support 30K MAC addresses and minimum 4096 VLANs
16	26	The controller should be able to present a customizable dashboard with information on the status of the WLAN network.	The controller preferably be able to present a customizable dashboard with information on the status of the WLAN network.

All other terms and conditions of the Tender Documents remain unaltered. Please return the Addendum No:II dt.27/11/2017 with your signature, date & stamp and should be enclosed in the **sealed cover**.

The Addendum-1 is available in our Web site - <http://www.instem.res.in/information/tenders.html> and also available in Central Public Procurement Portal, <http://eprocure.gov.in/cppp>.

Thanking you,

For and on behalf of  
Institute for Stem Cell Biology and Regenerative Medicine

Purchase Officer

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