

DEVELOPMENT OF PERMANENT CAMPUS FOR NALANDA UNIVERSITY AT RAJGIR, BIHAR STATE
PRE BID QUERIES REPLY- ELV- PACKAGE 5A

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
PROSPECTIVE BIDDER : 01				
Technical Specification - ELV Works (Package 5A) Page #5	1.1 F/UTP CAT6A - Construction and mechanical details	Polyethylene insulation, LSZH jacket, each pair to be individually foiled.	Since F/UTP cable is being asked for, please delete the feature 'each pair to be individually foiled' as to fulfil this the cable need to be F/FTP construction. It could be replaced with 'Foil shield on 4 pairs'.	OK, description shall be amended. Kindly refer to the corrigendum 1.
BOQ - Package 5A Item SI No. 3	SITC Of F/UTP CAT6A angular patch panel	SITC of F/UTP CAT6A angular patch panel pre-loaded with 24 ports in 1U form factor, with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable, inclusive of termination of f/utp CAT6A cables at all 24 ports.	Since wallmounted / closed racks shall be used for housing panels and switches, angled panels may not fit in these racks. Hence request to consider using straight patch panels compatible with given rack enclosures.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #6	SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE: (vi) Cable Construction Type	Loose tube corrugated steel tape armored cable, provided with FRP or equivalent non-metallic central strength member	Please add the vital mechanical properties for outdoor cable: Cable shall have Glass yarns peripheral strength members in both constructions types for added tensile strength performance. Tensile Strength for Unitube: 1250N Tensile Strength for Multitube: 4000N Crush Resistance for Unitube: 3000N Crush Resistance for Multitube: 4000N	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #6	SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE: (vii) Outer Jacket Construction	High density polyethylene, anti - termite, anti - rodent suitable for direct burial application. Jacket must be UV stabilized	HDPE jacket thickness is not mentioned, for adequate protection in outdoor environments, min 2mm thickness of jacket is recommended.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #6	SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE: (viii) & (ix) Losses	Losses @ 1310nm frequency <= 0.4 dB/Km Losses @1550nm frequency <= 0.3 dB/Km	Please amend to the loss values to fit the required link loss budget and allow max. application future proofing. Loss @ 1310nm <= 0.34dB/Km; @ 1550nm <=0.22dB/Km; @ 1380-1386nm <=0.31dB/Km.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #7	SPECIFICATIONS FOR PIGTAILS (SINGLEMODE): compliant to ITU-G657.B - Bend Insensitive Fiber	LC style, SM OS2. Simplex, 1 meter, compliant to ITU-G657.B - Bend Insensitive Fiber	Please make it compliant to OS2 grade as per ITU G652.D. Please delete G657.B	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #7	SPECIFICATIONS FOR FIBER OPTIC CABLE PATCHCORDS: Compliance to ITU-G657.B - Bend Insensitive Fiber	LC-LCstyle, SM OS2 as required. Available as either 1.6mm or 3mm simplex or duplex patch cord. Compliance to ITU-G657.B - Bend Insensitive Fiber	Please make it compliant to OS2 grade as per ITU G652.D. Please delete G657.B	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #7	SPECIFICATIONS FOR 19" RACK MOUNTED FIBER OPTIC PATCH PANELS: (viii) Construction	-	Please mention the gauge of metal. For securing metallic armored cables, atleast 1.6mm CRCA sheet is recommended. Please confirm to use this grade.	OK, description shall be amended. Kindly refer to the corrigendum 1.
PROSPECTIVE BIDDER : 02				
Technical Specification - ELV Works (Package 5A) Page #23	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	The camera shall be a Full HD Rapid Dome PTZ camera supporting triple streaming of codecs;simultaneously generating and transmitting JPEG and two independent H.264High Profile video streams different in resolutions and frame rates.	JPEG Video Codec is very 1st video codec which was used in imaging systems so most of OEMs now manufacturing with the different combination like H.264 & MJPEG, H.264 with JPEG so request that kindly make it generic specification for better competition and consider H.264 with MJPEG or JPEG.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	The camera shall have 2-way audio features, i.e., the camera shall have built-in audio input and output jacks and be capable of transmitting and receiving full duplex audio stream on the same Ethernet connection as the video. The audio shall be encoded using the G.726 or equivalent ADPCM standard.	We request the clause to be deleted as after the deletion,It will allow a more global competition leading to better technical and price discovery.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	• The camera shall have 4 external I/O Terminals for external alarms or controls.	We request the clause to be deleted as after the deletion,It will allow a more global competition leading to better technical and price discovery.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	The camera shall be capable of limiting bandwidth from 64 kbps to 8 Mbps in H.264 mode while also being able to operate without bandwidth limitation in JPEG format.	The limiting Bandwidth range may be differ with respective OEMs as every OEM may have some different range, but maximum should be same so we request to you kindly make changes to 256 kbps to 8Mbps.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Focal length shall be 4.3 to 129 mm with field of view coverage of 2.4° to 63.5°.	Focal Length of PTZ cameras varies from 4.2~4.4 mm to 126~132 as this specification show the optical zoom capability of PTZ camera which 30X (Max. Focal Length/Min. Focal Length) so request to make changes to 4.2~4.4 to 126~132 mm.	Kindly refer to the corrigendum 1.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #25	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Power consumption for the camera shall be 20 watts maximum.	This is a technical restriction & power consumption may vary with respective OEMs, so Please delete the clause or make it as per OEMs and they will mention their power consumption.	Ok, specifications shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #25	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Audio Requirement	We request the clause be deleted, The deletion will allow a more global competition leading to better technical and price discovery	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #26	3.2. FULL HIGH DEFINITION, TRUE DAY/NIGHT, OUTDOORNETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	The camera shall incorporate a built-in algorithm for intelligent motion detection capability. The camera shall offer this feature with minimum four configurable areas per scene and ten sensitivity levels adjustment capabilities.	We request the clause be deleted, The deletion will allow a more global competition leading to better technical and price discovery	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #26	3.2. FULL HIGH DEFINITION, TRUE DAY/NIGHT, OUTDOORNETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	The camera shall have 4 external I/O Terminals for external alarmsor controls.	We request the clause be deleted, The deletion will allow a more global competition leading to better technical and price discovery	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #28	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The camera shall be a Full HD dome network camera supporting three codecs, JPEG and 2 nos. H.264 high profile, any two of which can be used simultaneously. The camera shall utilize a 1/3" type CCD/MOS/CMOS sensor of approx. 2.0 Megapixels and have a true day/night capability.	JPEG Video Codec is very 1st video codec which was used in imaging systems so most of OEMs now manufacturing with the different combination like H.264 & MJPEG, H.264 with JPEG so request that kindly make it generic specification for better competition and consider H.264 with MJEPG or JPEG.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #28	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The camera shall support JPEGformatand H.264 high profile compression. The camera shall be able to select the high quality mode in JPEG 1920x 1080 at minimum 25fps. The camera shall also be able to support full HD mode of 1920 x 1080 in H.264 compression mode with 60fps.	As per site requirement is 30FPS cameras asked, so please clarify is it 30fps or 60fps.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #28	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The camera shall provide minimum 4 streams in H.264.	Triple Stream is sufficient for any surveillance system so request to you, kindly amend Min. 3 stream.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #29	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The minimum electronic shutter setting shall be 1 second, and a maximum of 1/40,000 sec.	As the shutter speed is depends on the image sensor and Lens which used by OEM so for best performance of Lens and Image sensor different OEM may have different shutter speed so request to kindly make it generic Change to 1ms-500ms.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #29	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The IR range shall be upto 30 mtrs.	As per asked Varifocal lens size 3~9mm Lens has it's own limited as @9mm Lens camera only can identify the object of height 2 meters up to 20 meters in day time, so as in night cameras it will less than as compared to day time so we request to kindly make amends of IR Range up to 20 meters.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #29	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The camera shall be a Full HD dome network camera supporting three codecs, JPEG and 2 nos. H.264 high profile, any two of which can be used simultaneously. The camera shall utilize a 1/3" type CCD/MOS/CMOS sensor of approx. 2.0 Megapixels and have a true day/night capability.	JPEG Video Codec is very 1st video codec which was used in imaging system so most of OEMs now manufacturing with the different combination like H.264 & MJPEG, H.264 with JPEG so request that kindly make it genric specification for better competition and consider H.264 with MJEPG or JPEG.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #29	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The camera shall provide minimum 4 streams in H.264.	Triple Stream is sufficient for any surveillance system so request to you, kindly amend Min. 3 stream.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #29	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	The camera shall have an integral 5 to 50 mm p-iris type vari-focal lens with remote zoom and focus.	Dome camera with 5~50 mm P-iris Varifocal lens is proprietary with one OEM so as per industry standard it is 8~22mm Varifocal lens so request to change to 8~22mm or better.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #29	3.4. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (5-50mm) GENERAL REQUIREMENTS:	The minimum electronic shutter setting shall be 1 second, and a maximum of 1/40,000 sec.	As the shutter speed is depends on the image sensor and Lens which used by OEM so for best performance of Lens and Image sensor different OEM may have different shutter speed so request to kindly make it generic Change to 1ms-500ms.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #32	3.5. FULL HIGH DEFINITION, OUTDOOR FIXED CS-MOUNT/BOX CAMERA GENERAL REQUIREMENTS:	The minimum electronic shutter setting shall be 1 second, and a maximum of 1/40,000 sec.	As the shutter speed is depends on the image sensor and Lens which used by OEM so for best performance of Lens and Image sensor different OEM may have different shutter speed so request to kindly make it generic Change to 1ms-500ms.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #33	3.6. FULL HIGH DEFINITION, INDOOR FIXED CS-MOUNT/BOX CAMERA GENERAL REQUIREMENTS:	The minimum electronic shutter setting shall be 1 second, and a maximum of 1/40,000 sec.	As the shutter speed is depends on the image sensor and Lens which used by OEM so for best performance of Lens and Image sensor different OEM may have different shutter speed so request to kindly make it generic Change to 1ms-500ms.	Kindly refer to the corrigendum 1.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #33	3.6. FULL HIGH DEFINITION, INDOOR FIXED CS-MOUNT/BOX CAMERA GENERAL REQUIREMENTS:	The camera shall have a CS-mount 2MP IR corrected type vari-focal lens (3-8 mm/5-50mm) as standard accessory.	The same Camera lens specification has two different sizes of Varifocal lens so please clarify.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #33	3.6. FULL HIGH DEFINITION, INDOOR FIXED CS-MOUNT/BOX CAMERA GENERAL REQUIREMENTS:	The camera shall have a CS-mount DC auto-iris type vari-focal lens - focal length shall be 5-50mm.	Dome camera with 5~50 mm P-iris Varifocal lens is proprietary with one OEM so as per industry standard it is 8~22mm Varifocal lens so request to change to 8~22mm.	Kindly refer to the corrigendum 1.
PROSPECTIVE BIDDER : 03				
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Switch should have minimum 4 dedicated or shared SFP ports.	Please change the state ment as : Switch should have minimum 4 dedicated 1G SFP ports.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Support for minimum 8k MAC addresses.	Please change the state ment as : Support for minimum 16k MAC addresses.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have at least 4 Nos. 10G - SFP+ ports	Please change the statement as : The switch should have at least 2 Nos. 10G - SFP+ ports	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have non-blocking switching bandwidth of minimum 128Gbps	Please change the statement as : The switch should have non-blocking switching bandwidth of minimum 88Gbps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have forwarding rate of minimum 80Mpps	Please change the statement as : The switch should have forwarding rate of minimum 65.47Mpps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #15	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The Switch should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH	• The switch should have at least 2 Nos. 40G - QSFP+ ports	Kindly change the statement as : The switch should support at least 2 Nos. 40G - QSFP+ ports in future.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : Should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect if someone connect a Rogue Access Point in network and able to take appropriate action to contain rogue Access point.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect an Ad-hoc connection when a connected user forming a network with other system without an AP or try enabling bridging between two interface	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and take appropriate containment action if a smartphone user using tethering to connect other device.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect if a user try to spoof mac address of valid client or AP for unauthorized access/authentication.	Kindly refer to the corrigendum 1.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	• It should be possible to locate function in map showing station location & Use signal from multiple APs for location identification & should also display station/rogue details	Our understanding of this point is that customer wants to advance location tracking of the access point in the campus, for better troubleshooting. Please clarify our understanding is correct or not??	Yes
Technical Specification - ELV Works (Package 5A) Page #20	2.5.3. WIRELESS LAN MANAGEMENT	• Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID	Please change the statement as : • Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID or AP name.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• RFC 2246 TLS protocol version 2.0	Kindly change the statement as : RFC 2246 TLS protocol version 1.0	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• WEP – 64 and 128 bit, TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	Kindly change the statement as : • TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Auto - discovery on Physical and logical basis	Please clarify what is logical discovery?	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Discovery of network elements should be on per device basis and it should be possible to import L2 and L3 topologies	Our understanding on this point is the topology should include both L2 and L3 devices. Please clarify our understanding is correct or not?	Yes, it should include both L2 and L3 devices. Kindly refer to Corrigendum 1
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should have the capability to capture logical connectivity information including virtual private network (VPN)	Please clarify what is meant by this point?? Nalanda is Campus. There is no VPN location. Kindly remove this statement, to avoid confusion.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should provide facility to track the performance matrix on subnet basis, VLAN basis and protocol basis	Please change the statement as : System should provide facility to track the performance matrix on subnet basis or VLAN basis and protocol basis	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should support specific protocol level performance characteristics	Please remove this statement.	Kindly refer to the corrigendum 1.
PROSPECTIVE BIDDER : 04				
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Switch should have minimum 4 dedicated or shared SFP ports.	Please change the state ment as : Switch should have minimum 4 dedicated 1G SFP ports.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Support for minimum 8k MAC addresses.	Please change the state ment as : Support for minimum 16k MAC addresses.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have at least 4 Nos. 10G - SFP+ ports	Please change the statement as : The switch should have at least 2 Nos. 10G - SFP+ ports	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have non-blocking switching bandwidth of minimum 128Gbps	Please change the statement as : The switch should have non-blocking switching bandwidth of minimum 88Gbps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have forwarding rate of minimum 80Mpps	Please change the statement as : The switch should have forwarding rate of minimum 65.47Mpps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #15	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The Switch should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH	• The switch should have at least 2 Nos. 40G - QSFP+ ports	Kindly change the statement as : The switch should support at least 2 Nos. 40G - QSFP+ ports in future.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : Should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect if someone connect a Rogue Access Point in network and able to take appropriate action to contain rogue Access point.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect an Ad-hoc connection when a connected user forming a network with other system without an AP or try enabling bridging between two interface	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and take appropriate containment action if a smartphone user using tethering to connect other device.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect if a user try to spoof mac address of valid client or AP for unauthorized access/authentication.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	• It should be possible to locate function in map showing station location & Use signal from multiple APs for location identification & should also display station/rogue details	Our understanding of this point is that customer wants to advance location tracking of the access point in the campus, for better troubleshooting. Please clarify our understanding is correct or not??	Yes
Technical Specification - ELV Works (Package 5A) Page #20	2.5.3. WIRELESS LAN MANAGEMENT	• Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID	Please change the statement as : • Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID or AP name.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• RFC 2246 TLS protocol version 2.0	Kindly change the statement as : RFC 2246 TLS protocol version 1.0	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• WEP – 64 and 128 bit, TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	Kindly change the statement as : • TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Auto - discovery on Physical and logical basis	Please clarify what is logical discovery?	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Discovery of network elements should be on per device basis and it should be possible to import L2 and L3 topologies	Our understanding on this point is the topology should include both L2 and L3 devices. Please clarify our understanding is correct or not?	Yes, it should include both L2 and L3 devices. Kindly refer to Corrigendum 1
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should have the capability to capture logical connectivity information including virtual private network (VPN)	Please clarify what is meant by this point?? Nalanda is Campus. There is no VPN location. Kindly remove this statement, to avoid confusion.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should provide facility to track the performance matrix on subnet basis, VLAN basis and protocol basis	Please change the statement as : System should provide facility to track the performance matrix on subnet basis or VLAN basis and protocol basis	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should support specific protocol level performance characteristics	Please remove this statement.	Kindly refer to the corrigendum 1.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No 3 - F/UTP CAT6ACabling System – Cable and Components : COMMSCOPE-SYSTIMAX, PANDUIT-PANNET, TYCO-NETCONNECT	As per Tender Technical specification for ITS Infrastructure, Schneider is comply with the specification. Panduit - Pannet is not present in India, And Commscope & TYCO is Single company, hence request to amend the Name of Schneider to have the right competition in the Bid in term of technical and commercial benefit to Institute only. Requet you to kindly mentioned the brand name as SYSTIMAX/SCHNEIDER/Panduit	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No 4 - Fiber Optics Components (Data & Voice/Telecom, Single Mode) – Cables, LIUs, Shelves, Pigtails, Patchcords, Connectors, Couplers, Splices : COMMSCOPE-SYSTIMAX, PANDUIT-PANNET, TYCO-NETCONNECT	As per Tender Technical specification for ITS Infrastructure, Schneider is comply with the specification. Panduit - Pannet is not present in India, And Commscope & TYCO is Single company, hence request to amend the Name of Schneider to have the right competition in the Bid in term of technical and commercial benefit to Institute only. Requet you to kindly mentioned the brand name as SYSTIMAX/SCHNEIDER/Panduit	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No. 6 -- IP66 rated 96 core External Splicing Kit for outdoor fiber optics cable : 3M, RAYCHEM, TYCO	Request to amend as RFP asked Single OEM for all the Passive Component. Schneider supply IP 66 and IP 68 Rated Outdoor Splicing Kit. Request you to kindly mentioned the brand name as 3M, RAYCHEM, TYCO , Schneider	NIT Condition shall prevail.
PROSPECTIVE BIDDER : 05				
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	VMS Software Platform: GENETEC, MILESTONE, NICE	By adding condition customer is either favouring few vendors or restricting itself to get latest technologies and products.Approved make condition is not suitable in India because it is against the "Make in India" Concept. Most importantly if there are technical compliances to be met and Demo/POC for this project why the customer needs to add such conditions. Please find letter attached letter from Indian Government which advices against adding such conditions. Kindly give fair chance to all OEM and remove this clause or add i2V in Approved make list	NIT Condition shall prevail.
PROSPECTIVE BIDDER : 06				
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Switch should have minimum 4 dedicated or shared SFP ports.	Please change the state ment as : Switch should have minimum 4 dedicated 1G SFP ports.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Support for minimum 8k MAC addresses.	Please change the state ment as : Support for minimum 16k MAC addresses.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have at least 4 Nos. 10G - SFP+ ports	Please change the statement as : The switch should have at least 2 Nos. 10G - SFP+ ports	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have non-blocking switching bandwidth of minimum 128Gbps	Please change the statement as : The switch should have non-blocking switching bandwidth of minimum 88Gbps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have forwarding rate of minimum 80Mpps	Please change the statement as : The switch should have forwarding rate of minimum 65.47Mpps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #15	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The Switch should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH	• The switch should have at least 2 Nos. 40G - QSFP+ ports	Kindly change the statement as : The switch should support at least 2 Nos. 40G - QSFP+ ports in future.	NIT Condition shall prevail.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : Should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect if someone connect a Rogue Access Point in network and able to take appropriate action to contain rogue Access point.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect an Ad-hoc connection when a connected user forming a network with other system without an AP or try enabling bridging between two interface	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and take appropriate containment action if a smartphone user using tethering to connect other device.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect if a user try to spoof mac address of valid client or AP for unauthorized access/authentication.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	• It should be possible to locate function in map showing station location & Use signal from multiple APs for location identification & should also display station/rogue details	Our understanding of this point is that customer wants to advance location tracking of the access point in the campus, for better troubleshooting. Please clarify our understanding is correct or not??	Yes
Technical Specification - ELV Works (Package 5A) Page #20	2.5.3. WIRELESS LAN MANAGEMENT	• Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID	Please change the statement as : • Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID or AP name.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• RFC 2246 TLS protocol version 2.0	Kindly change the statement as : RFC 2246 TLS protocol version 1.0	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• WEP – 64 and 128 bit, TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	Kindly change the statement as : • TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Auto - discovery on Physical and logical basis	Please clarify what is logical discovery?	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Discovery of network elements should be on per device basis and it should be possible to import L2 and L3 topologies	Our understanding on this point is the topogy should include both L2 and L3 devices. Please clarify our understanding is correct or not?	Yes, it should include both L2 and L3 devices. Kindly refer to Corrigendum 1
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should have the capability to capture logical connectivity information including virtual private network (VPN)	Please clarify what is meant by this point?? Nalanda is Campus. There is no VPN location. Kindly remove this statement, to avoid confusion.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should provide facility to track the performance matrix on subnet basis, VLAN basis and protocol basis	Please change the statement as : System should provide facility to track the performance matrix on subnet basis or VLAN basis and protocol basis	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should support specific protocol level performance characteristics	Please remove this statement.	Kindly refer to the corrigendum 1.
PROSPECTIVE BIDDER : 07				
Technical Specification - ELV Works (Package 5A) Page #5	1.1 F/UTP CAT6A - Construction and mechanical details	Polyethylene insulation, LSZH jacket, each pair to be individually foiled.	Since F/UTP cable is being asked for, please delete the feature 'each pair to be individually foiled' as to fulfil this the cable need to be F/FTP construction. It could be replaced with 'Foil shield on 4 pairs'.	OK, description shall be amended. Kindly refer to the corrigendum 1.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
BOQ - Package 5A Item SI No. 3	SITC Of F/UTP CAT6A angular patch panel	SITC of F/UTP CAT6A angular patch panel pre-loaded with 24 ports in 1U form factor, with universal A/B labeling and 110 connector terminations on rear of panel allowing for quick and easy installation of 22 to 24 AWG cable, inclusive of termination of f/utp CAT6A cables at all 24 ports.	Since wallmounted / closed racks shall be used for housing panels and switches, angled panels may not fit in these racks. Hence request to consider using straight patch panels compatible with given rack enclosures.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #6	SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE: (vi) Cable Construction Type	Loose tube corrugated steel tape armored cable, provided with FRP or equivalent non-metallic central strength member	Please add the vital mechanical properties for outdoor cable: Cable shall have Glass yarns peripheral strength members in both constructions types for added tensile strength performance. Tensile Strength for Unitube: 1250N Tensile Strength for Multitube: 4000N Crush Resistance for Unitube: 3000N Crush Resistance for Multitube: 4000N	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #6	SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE: (vii) Outer Jacket Construction	High density polyethylene, anti - termite, anti - rodent suitable for direct burial application. Jacket must be UV stabilized	HDPE jacket thickness is not mentioned, for adequate protection in outdoor environments, min 2mm thickness of jacket is recommended.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #6	SPECIFICATIONS FOR SINGLE MODE OPTICAL FIBER CABLE: (viii) & (ix) Losses	Losses @ 1310nm frequency < = 0.4 dB/Km Losses @1550nm frequency < = 0.3 dB/Km	Please amend to the loss values to fit the required link loss budget and allow max. application future proofing. Loss @ 1310nm <= 0.34db/Km; @ 1550nm <=0.22dB/Km; @ 1380-1386nm <=0.31dB/Km.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #7	SPECIFICATIONS FOR PIGTAILS (SINGLEMODE): compliant to ITU-G657.B - Bend Insensitive Fiber	LC style, SM OS2. Simplex, 1 meter, compliant to ITU-G657.B - Bend Insensitive Fiber	Please make it compliant to OS2 grade as per ITU G652.D. Please delete G657.B	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #7	SPECIFICATIONS FOR FIBER OPTIC CABLE PATCHCORDS: Compliance to ITU-G657.B - Bend Insensitive Fiber	LC-LCstyle, SM OS2 as required. Available as either 1.6mm or 3mm simplex or duplex patch cord. Compliance to ITU-G657.B - Bend Insensitive Fiber	Please make it compliant to OS2 grade as per ITU G652.D. Please delete G657.B	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #7	SPECIFICATIONS FOR 19" RACK MOUNTED FIBER OPTIC PATCH PANELS: (viii) Construction	-	Please mention the gauge of metal. For securing metallic armored cables, atleast 1.6mm CRCA sheet is recommended. Please confirm to use this grade.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Make List for Industrial Ethernet Switch	Since Industrial Ethernet switch is not mentioned as per BOQ specification, the approved make list for Industrial Ethernet switch should not be applicable	Kindly refer to the corrigendum1.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Make List CCTV system	Request you to include Honeywell as the approved make list for CCTV equipments	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Make List Access Control system	Request you to include Honeywell as the approved make list for Access Control system	NIT Condition shall prevail.
PROSPECTIVE BIDDER : 08				
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	MAKELIST5A	" Specified Brand/Make/Manufacturer" please include tyco brand also for better Competition.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #23	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:23 ,poinmt 3.1.: The camera shall be capable of 360 degree pan rotation and a minimum tilt range of 0° to 180°, designed for ceiling mount operation.	we are requesting you please change it to "YES, 360° Continuous Rotate,From - 15° to 90° (auto Flip) cause	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #23	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:23 ,poinmt 3.1. The camera shall incorporate a built-in 30X optical, auto-focus zoom lens, and shall have 12X digital zoom capability with 360X total zoom capability.	"Zoom capability with 360X or mean 360 degree" please clarify the same.	It is to be read as zoom capacity - "The camera shall incorporate a built-in 30X optical, auto-focus zoom lens, and shall have 12X digital zoom capability with 360X total zoom capability."
Technical Specification - ELV Works (Package 5A) Page #23	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:23 ,poinmt 3.1. The PTZ camera shall be able to send and receive trigger commands from any other camera even if the VMS is offline.	Please remove this point. We suggest automatic recording on SD card for the video footages . Also we found this point is not available for Outdoor PTZ.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #23	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:23 ,poinmt 3.1. The camera shall be capable of supporting up to five (05) users simultaneously over the network.	we are requesting you please change it to "Up to 20 users. "	NIT Condition shall prevail.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #23	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:24 ,poinmt 3.1. The camera shall have 4 external I/O Terminals for external alarms or controls.	2-ch alarm input and 1-ch alarm output is sufficient for the project Please clarify why 4 external I/O Terminals for external alarms or controls required.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:24 ,poinmt 3.1. The camera shall have a local storage capability via a memory card slot which can support up to 64GB memory card that can cache images in the event of a network failure. The camera shall also support manual/alarm recording to the optional memory card. The camera shall provide notification of the remaining capacity of the memory card.	we recomanded for Built-in memory card slot, supporting Micro SD/SDHC/SDXC, up to 128GB because as per the volum and criticality of the project memory card should be 256 GB max for future readiness.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:24 ,poinmt 3.1. Power consumption for the camera shall be 20 watts maximum.	Please change it to 24 VAC and Hi-PoE; Max.: 40 W (Max. 14 W for IR)	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:24 ,poinmt 3.1. The camera shall have mini-jack connectors accessible via pigtail to support external microphone and active speakers.	1-ch audio input,1-ch audio output is sufficient for the communication .	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #24	3.1. FULL HIGH DEFINITION, TRUE DAY/NIGHT, INDOOR NETWORK RAPID PTZCAMERA GENERAL REQUIREMENTS:	Page No:24 ,poinmt 3.1. The camera shall be vandal resistant with IK10 rating or IEC 62262 compliance.	We recomonaded for the following features " IP66 Standard, TVS 4000V Lightning Protection, Surge Protection and Voltage Transient Protection, " so requesting you please change the parameters	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #28	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	Page 28,3.3: The camera shall provide minimum 4 streams in H.264.	please make it triple stream as three stream is sufficient for the said project	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #28	3.3. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (3-8mm) GENERAL REQUIREMENTS:	Page 28,3.3: The camera shall have an integral 3 to 9 mm p-iris type vari-focal lens with remote zoom and focus.	Please make it optional with D-Iris	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #29	3.4. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (5-50mm) GENERAL REQUIREMENTS:	MINIDOME NETWORK_5-50mm	5-50 mm lens basically use for ANPR purpose , we are requesting you please make it 2.8 to 12 mm andangle of view: 90.1°~31°.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #29	3.4. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (5-50mm) GENERAL REQUIREMENTS:	Page No:29, 3.4: Cameras shall have a wide dynamic range of between 85 to 95dB (for Fixed Box/CS-Mount and Indoor Dome/Mini-dome models and between 120 to 130dB (for indoor/outdoor PTZ models)for ensuring good image performance in varying light conditions.	please make it 120 to 130dB	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #29	3.4. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (5-50mm) GENERAL REQUIREMENTS:	The camera shall be installed in a vandal resistant IK10 rated housing.	please mention housing parameters	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #29	3.4. FULL HIGH DEFINITION, TRUE DAY/NIGHT, MINIDOME NETWORK CAMERA (5-50mm) GENERAL REQUIREMENTS:	The camera shall be outdoor rated and having IP66 rating for ingress protection.	please mention housing parameters	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #32	3.6. FULL HIGH DEFINITION, INDOOR FIXED CS-MOUNT/BOX CAMERA GENERAL REQUIREMENTS:	Page :32,3.6INDOOR FIXED CS-MOUNT The camera shall incorporate a built-in algorithm for intelligent motion detection capability. The camera shall offer this feature with minimum Ten configurable areas per scene and ten sensitivity levels adjustment capabilities.	please remove this point.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #32	3.6. FULL HIGH DEFINITION, INDOOR FIXED CS-MOUNT/BOX CAMERA GENERAL REQUIREMENTS:	The camera shall be installed in a vandal resistant IK10 rated housing.	please mention housing parameters	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #35	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	Page 35, 3.7 VMS Health Monitoring Role for monitoring and logging health events and warnings from the various client applications, roles, and services. It shall also log events within the Windows Event Log, generating reports on health statistics and health history.	It is a aprt of EMS not comes under VMS.	NIT Condition shall prevail.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #35	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	The VMS shall be able to use multiple CCTV keyboards to operate the entire set of cameras throughout the system, including cameras of various manufacturers' brands, including their PTZ functionalities.	Not required , VMS , camera and key board from same oem for better integration	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #35	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	Playback:1x,2x,4x,6x,8x,10x,20x,40x,100x.	Please make it upto 24X and it is sufficient for the said project	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #35	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	Visual tracking shall be available with both live and recorded video.	Please remove this point	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #39	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	ARCHIVING The Archiver shall digitally sign the recorded video.	make it option exported video shall digitally sign the recorded video.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #39	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	The Archiver shall have the capacity to configure the key frame interval in seconds or number of frames.	Please remove this point	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #39	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	The Archiver shall support minimum 300 cameras or 300 Mbps of recording throughput whichever comes first in case the network is end to end multicast.	Please make it optional as 128 Nos of camera per server	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #40	3.7. VIDEO MANAGEMENT SOFTWARE (VMS)	SMART PHONE AND TABLET APPS The VMS shall support mobile apps for various popular smart phones and tablets, including e.g., Apple iPod Touch, iPhone, and iPad., RIM BlackBerry smart-phones, Android-compatible smart-phones and tablets.	Please remove RIM BlackBerry smart-phones.	Kindly refer to the corrigendum 1.
		Certifications Not Mentioned	UI, FCC & CE to be incorporated	Kindly refer to the corrigendum 1.
PROSPECTIVE BIDDER : 09				
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Switch should have minimum 4 dedicated or shared SFP ports.	Please change the statement as : Switch should have minimum 4 dedicated 1G SFP ports.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH)	• Support for minimum 8k MAC addresses.	Please change the statement as : Support for minimum 16k MAC addresses.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have at least 4 Nos. 10G - SFP+ ports	Please change the statement as : The switch should have at least 2 Nos. 10G - SFP+ ports	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have non-blocking switching bandwidth of minimum 128Gbps	Please change the statement as : The switch should have non-blocking switching bandwidth of minimum 88Gbps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH	• The switch should have forwarding rate of minimum 80Mpps	Please change the statement as : The switch should have forwarding rate of minimum 65.47Mpps	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #14	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #15	2.3. TYPE-3 BLOCK/CLUSTER DISTRIBUTION SWITCH		Kindly add : The Switch should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH	• The switch should have at least 2 Nos. 40G - QSFP+ ports	Kindly change the statement as : The switch should support at least 2 Nos. 40G - QSFP+ ports in future.	NIT Condition shall prevail.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : The switch should have 4 GB DRAM and 2 GB Flash or more.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH		Kindly add : Should support 24000 IP Routes and 4000 Multicast route	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect if someone connect a Rogue Access Point in network and able to take appropriate action to contain rogue Access point.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect an Ad-hoc connection when a connected user forming a network with other system without an AP or try enabling bridging between two interface	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and take appropriate containment action if a smartphone user using tethering to connect other device.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER		Kindly add : WLC should detect and protect if a user try to spoof mac address of valid client or AP for unauthorized access/authentication.	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	• It should be possible to locate function in map showing station location & Use signal from multiple APs for location identification & should also display station/rogue details	Our understanding of this point is that customer wants to advance location tracking of the access point in the campus, for better troubleshooting. Please clarify our understanding is correct or not??	Yes
Technical Specification - ELV Works (Package 5A) Page #20	2.5.3. WIRELESS LAN MANAGEMENT	• Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID	Please change the statement as : • Customizable view listing security events by type, detected by APs, with time detected, mac address of device and SSID or AP name.	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• RFC 2246 TLS protocol version 2.0	Kindly change the statement as : RFC 2246 TLS protocol version 1.0	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	• WEP – 64 and 128 bit, TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	Kindly change the statement as : • TKIP-MIC: RC4 40 bit, 104 bit and 128 bit, SSL & TLS: RC4 128-bit	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Auto - discovery on Physical and logical basis	Please clarify what is logical discovery?	Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• Discovery of network elements should be on per device basis and it should be possible to import L2 and L3 topologies	Our understanding on this point is the topology should include both L2 and L3 devices. Please clarify our understanding is correct or not?	Yes, it should include both L2 and L3 devices. Kindly refer to Corrigendum 1
Technical Specification - ELV Works (Package 5A) Page #20	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should have the capability to capture logical connectivity information including virtual private network (VPN)	Please clarify what is meant by this point?? Nalanda is Campus. There is no VPN location. Kindly remove this statement, to avoid confusion.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should provide facility to track the performance matrix on subnet basis, VLAN basis and protocol basis	Please change the statement as : System should provide facility to track the performance matrix on subnet basis or VLAN basis and protocol basis	OK, description shall be amended. Kindly refer to the corrigendum 1.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE	• System should support specific protocol level performance characteristics	Please remove this statement.	Kindly refer to the corrigendum 1.
PROSPECTIVE BIDDER : 10				

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #12	2.1. TYPE-1 EDGE SWITCH (ACCESS SWITCH) Layer 2, 8 x 10/100/1000 Base-Tx Ports, PoE+, plus minimum 2 dedicated SFP Ports	Layer 2, 8x10/100/1000 Base-Tx Ports, PoE+, plus minimum 2 dedicated SFP Ports	Layer 2, 8x10/100/1000 Base-Tx Ports, PoE+, plus minimum 2 dedicated 2x1/10G SFP+ ports	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #13	2.2. TYPE-2 EDGE SWITCH (ACCESS SWITCH) Layer 2, 24 x 10/100/1000Base-Tx Ports, PoE+, minimum 4 dedicated or shared SFPPorts	Layer 2, 24x 10/100/1000Base-Tx Ports, PoE+, minimum 4 dedicated or shared SFP ports.	Layer 2, 24x 10/100/1000Base-Tx Ports, PoE+, minimum 2 2 dedicated 1/10G SFP+ ports	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #16	2.4. TYPE-4CORE SWITCH Layer 3, 24 x 10G SFP+ Ports, 2 x 40G QSFP+ Ports, Redundant Power Supply, Redundant Fan, Full Advanced L3 Features	Switch should have the capabilities to stack upto 8 switches with dedicated stacking port/virtual chasis from day 1 and with minimum stacking bandwidth of 240 GBPS	Request to change this as Stacking bandwidth of 160Gbps as its available with most of the OEM's as per port speed calculation.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #18	2.5.2. WIRELESS CONTROLLER	Shall support 15000 users from day one	Shall support min 25000 concurrent user	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	WMS should support following key feature - iv.- Wireless Heat Map	This is NMS feature not relevant for controller functionality,request to remove for wider participation.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	WMS dashboard should provide real time summary of status & activity based on parameters such as: - iv.- MOST RECENT ALARMS	Alarm generation is NMS feature, controller can provide alert basis on certain threshold value. Request to change.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	It should be possible to locate function in map showing station location & use signal from multiple AP's for location identification & should also display station/rogue details.	These are all NMS feature,request to remove.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #19	2.5.3. WIRELESS LAN MANAGEMENT	WMS should have the ability to display heat maps & clients	These are all NMS feature,request to remove.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.3. WIRELESS LAN MANAGEMENT	WMS should have functionality to generate graphical maps showing wireless coverage heat maps, devices and location	These are all NMS feature,request to delete from controller scope,so that max OEM can participate.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.3. WIRELESS LAN MANAGEMENT	Solution should support troubleshooting tools, packet capture & reports to resolve connectivity & performance issues	These are all NMS feature,request to delete from controller scope,so that max OEM can participate.	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #20	2.5.4. ACCESS POINT	4X4:3 Multiple Input/ Multiple Output (MIMO) Wave 2 access point	Request to change this as 4x4:4 MU-MIMO Wave 2 access point	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE		Requesting the clarity, this is AAA solution which is not related to NMS solution and should be separate solution for better functionality and security features which is very much relevant in educational campus. Request for clarity whether University is looking for a AAA solution which can be integrated with NMS or else.	Centralised Network Management and Monitoring Software shall support AAA Server.
Technical Specification - ELV Works (Package 5A) Page #21	2.6. CENTRALISED NETWORK MANAGEMENT AND MONITORING SOFTWARE		Requesting the clarity, this is AAA solution which is not related to NMS solution and should be separate solution for better functionality and security features which is very much relevant in educational campus. Request for clarity whether University is looking for a AAA solution which can be integrated with NMS or else.	Yes, required.
PROSPECTIVE BIDDER : 11				

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No 3 - F/UTP CAT6ACabling System – Cable and Components : COMMScope-SYSTIMAX, PANDUIT-PANNET, TYCO-NETCONNECT	As per Tender Technical specification for ITS Infrastructure, Schneider is comply with the specification. Panduit - Pannet is not present in India, And Commscope & TYCO is Single company, hence request to amend the Name of Schneider to have the right competition in the Bid in term of technical and commercial benefit to Institute only. Suggested Makes:SYSTIMAX/SCHNEIDER/Panduit	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No 4 - Fiber Optics Components (Data & Voice/Telecom, Single Mode) – Cables, LIUs, Shelves, Pigtails, Patchcords, Connectors, Couplers, Splices : COMMScope-SYSTIMAX, PANDUIT-PANNET, TYCO-NETCONNECT	As per Tender Technical specification for ITS Infrastructure, Schneider is comply with the specification. Panduit - Pannet is not present in India, And Commscope & TYCO is Single company, hence request to amend the Name of Schneider to have the right competition in the Bid in term of technical and commercial benefit to Institute only. Suggested Makes:SYSTIMAX/SCHNEIDER/Panduit	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No. 6 -- IP66 rated 96 core External Splicing Kit for outdoor fiber optics cable : 3M, RAYCHEM, TYCO	Request to amend as RFP asked Single OEM for all the Passive Component. Schneider supply IP 66 and IP 68 Rated Outdoor Splicing Kit. Suggested makes: 3M, RAYCHEM, TYCO , Schneider	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Make List 5A – Point Number - 10 - All CCTV Cameras	CCTV / Video-Surveillance All types of Cameras (Indoor and Outdoor) – Fixed Dome, Fixed CSMount/ Box, PTZ - AXIS, BOSCH, SONY. Please include PELCO as it is the largest Manufacturer and has the broadest spectrum of CCTV Camera offering Globally. Suggested Makes: AXIS, BOSCH, SONY, PELCO	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Make List 5A – Point Number - 11 VMS Software Platform	VMS Software Platform should include the CCTV Camera Manufacturers of the Tender. Also, there should be atleast 05 Nos. similar installed site of the VMS (Atleast 800+ Cameras) in running condition. We request inclusion of PELCO for the same which can match the sane Globally. Suggested Makes: AXIS, BOSCH, SONY, GENETEC, MILESTONE, NICE, PELCO	NIT Condition shall prevail.
ELV BoQ Item Sr. No. 55 & 56	PTZ Cameras	Dehumidification feature	Please confirm that "Dehumidification feature" means Camera should have built-in Heater and Blower.	Yes, inbuilt dehumidification feature
ELV BoQ Item Sr. No. 61	Video Management Software (VMS)	Camera Licence quantity should match the total number of Cameras. 50% expansion capability should be there.	Camera Licence quantity should be as per the overall Camera Quantity as mentioned in the BOM with expansion capability of 50% without any additional hardware or software.	Noted.
ELV BoQ Item Sr. No. 59	Outdoor CS-Mount Camera	5-50mm varifocal Lens should have built-in Motorised Function as the large Focal length can be controlled from the Software.	"5-50mm varifocal Lens, with Direct Drive auto Iris motorised function"	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No 16 : Fire Detection & Alarm System : NOTIFIER, SIEMENS-FIRE FINDER, TYCO - SIMPLEX	Schneider Electric is a global manufacturer of Fire Detection Products approved by EU as per En54 part 2 and 4. Would request you to include the same in the Tender. Suggested Makes: NOTIFIER, SIEMENS-FIRE FINDER, TYCO – SIMPLEX, SCHNEIDER ELECTRIC	NIT Condition shall prevail.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.No. 19 ; Access Control System Readers, Controllers : BOSCH, IDENTIV, LENEL, MATRIX	Schneider Electric is a global manufacturer for Access Control System Products. Also for seamless integration of 3rd Party CCTV System, it is essential that ACS System should have built-in support for Integration of major 3rd Party CCTV System Manufacturers, kindly mention the same in the Tender. Also, it is essential that the Access Controller should be compliant with the latest technology and superbly advanced in Data Processing. Hence, it should have atleast 32 Bit advanced RISC processor with 2Gb total memory. Request you to convey your opinion on the same. Also, the Controller should support both RS485 and Wiegand readers for future expandability. Suggested Makes: Access Control System Readers, Controllers : BOSCH, IDENTIV, LENEL, MATRIX, SCHNEIDER ELECTRIC	NIT Condition shall prevail.
Technical Specification - ELV Works (Package 5A) Page #58	LIST OF APPROVED MAKE / MANUFACTURER FOR LOW VOLTAGE (LV) SYSTEMS	Sr.no 20 : Access Control & Time Attendance Software Application ; BOSCH, IDCUBE, MATRIX	Kindly Include SCHNEIDER ELECTRIC in the same. Suggested Makes: Access Control & Time Attendance Software Application ; BOSCH, IDCUBE, MATRIX, SCHNEIDER ELECTRIC	NIT Condition shall prevail.
PROSPECTIVE BIDDER : 12				
NOTICE INVITING TENDER - Page 142	Turn over	2. The bidder should have had average annual financial turnover (gross) of Rs. 12.20 Crore (Rupees Twelve Crore Twenty Lakh only) of Similar works during the immediate last five consecutive financial years balance sheets, ending 31st March 2018, duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.	In order to execute a project value of 24 crores the average annual financial turnover (gross) of the bidder shall be equivalent to or higher than the budgeted value.	NIT Condition shall prevail.
NOTICE INVITING TENDER - Page 45	Evaluation Criteria for Eligibility (Technical Tender)	The owner reserves the right to restrict the list of such qualified contractor to any number deemed suitable by it. Though the overall time of completion is 24 months the contractor shall complete all the work in scope so that the buildings are ready for occupation in all respects, strictly conforming to the time limit specified for such items. Any delay in achieving specified timeline given in the Milestones (as mentioned below) of these building shall invite withholding of payments as indicated against each and every Milestone.	Since there is early work completion & handing over schedule for priority buildings so is that implies Warranty / DLP will start from the handing over for the priority buildings.	NIT Condition shall prevail.
NOTICE INVITING TENDER - Page 124	Clause 5.4 Schedule of rate of recovery for delay in submission of the modified program in terms of delay days	(b) Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where Tendered amount is Rs. 100 Crore or less. Where Tendered Value is more than Rs. 100 Crore, Tribunal shall consist of three Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall be applicable.	Tribunal shall consist of three Arbitrators as per Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall also be applicable for Tendered Value less than Rs. 100 Crore.	NIT Condition shall prevail.
NOTICE INVITING TENDER - Page 127	CLAUSE. 31. Unfiltered Water Supply	The Contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions: (i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge. (ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in-Charge, unsatisfactory.	Is borewell pumping allowed at site.	NO.
NOTICE INVITING TENDER - Page 131	CLAUSE 38 Conditions for Reimbursement of levy/taxes if levied after receipt of tenders.	Provided further that such adjustment including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 of Schedule F.	Requesting the tender committee to allow statutory variation in the extended period of contract also even if the delay is due to the contractor since the contractor is already paying penalty for that delay.	NIT Condition shall prevail.
NOTICE INVITING TENDER - Page 142	SPECIAL CONDITIONS OF CONTRACT CLAUSE. 5.5: Electricity	The Contractor shall, at his own cost supply the required electrical power supplies to the Site offices of the Owner as directed by the Engineer-In-Charge.	Please removed this provision from this clause.	NIT Condition shall prevail.
NOTICE INVITING TENDER - Page 162	Clause.5.17 : On Account Payment of Interim Bills	5% release for completion of major seasonal test.	Please clarify what is meant by "major seasonal test" & what is the duration of this test period.	NIT Condition shall prevail. As per specifications.

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
NOTICE INVITING TENDER - Page 185	24. COMPREHENSIVE ANNUAL MAINTENANCE & OPERATION SERVICE	a) Operation contract i) 24 hours a day, year round for full load ii) All stand-by equipment to be operated as per mutually agreed program. iii) Proper entry and upkeep of relevant log books. iv) Maintain complaints register. Submit weekly report. v) Proper housekeeping of all areas under the contract.	Please Clarify	The work is including Comprehensive annual maintenance and operation of the entire system during DLP as well as AMC period.
NOTICE INVITING TENDER - Page 186	24. COMPREHENSIVE ANNUAL MAINTENANCE & OPERATION SERVICE	d) Manpower i) Adequate number of persons to the satisfaction of the Owner's site representative shall be provided including relievers. ii) Statutory requirements of EPF, ESIC and other applicable labour legislations to be complied with; and monthly certification to that effect to be submitted. iii) Duty allocation and Roaster control shall be contractor's responsibility. iv) No overtime shall be payable by Owner for any reason whatsoever.	Please Clarify	The work is including Comprehensive annual maintenance and operation of the entire system during DLP as well as AMC period.
NOTICE INVITING TENDER - Page 189	CLAUSE 5.28 : Pre Dispatch Inspection	The contractor will intimate to owner well in advance or with sufficient notice period for readiness of material at manufactures' works. The Employer/his representative may carry out stage inspection of the plant/equipment during manufacturing/ assembling stage. The Employer shall have absolute right to reject the raw material/ component/ sub-assemblies or complete equipment not found to be conforming to the specification or being of poor quality/ workmanship. The stage inspection will particularly include tests specified for any particular plant or equipment in the technical specification, general routine tests and physical measurements to be conducted during manufacturing stages as per manufacturer's standard practice.	Please clarify cost of travelling, lodging & boarding for Onwer's representatives to & fro manufactures' works / warehouse will be in whose scope.	Shall be borne by the contractor.
NOTICE INVITING TENDER - Page 199	2. General terms 2.1 Intellectual Property Rights	The Service Provider agrees to grant to the Buyer a non-exclusive, irrevocable, royalty free license to use, copy and modify any elements of the Material not specifically created for the Buyer as part of the Services. In respect of the Material specifically created for the Buyer as part of the Services, the Service Provider assigns the full title guarantee to the Buyer and any all of the copyright, other intellectual property rights and any other data or material used or subsisting in the Material whether finished or unfinished. If any third party intellectual property rights are used in the Material the Service Provider shall ensure that it has secured all necessary consents and approvals to use such third party intellectual property rights for the Service Provider and the Buyer. For the purposes of this Clause 2.1, "Material" shall mean the materials, in whatever form, used by the Service Provider to provide the Services and the products, systems, programs or processes, in whatever form, produced by the Service Provider pursuant to this Agreement.	The Contractor hereby grants to NU a non-exclusive, non-sub licensable and perpetual license and right to use the deliverables, formats, material and the documentation solely for NU's own internal business operations as set forth under the this Agreement. All the software licenses and warranties pertaining to any software and/or hardware supplied under this Agreement shall be as per the Contractor's license terms and conditions and/or End User License Agreement. In case of any hardware supplied under this Agreement it shall be as per the Original Equipment Manufacturer terms and conditions. Except these terms and conditions no other terms and conditions shall be applicable to the supplied software and/or hardware even if mentioned on the Order, tender document or any agreement signed between the parties.	NIT conditions shall prevail
NOTICE INVITING TENDER - Page 200	2.3 Limitation of liability	a. Subject to the Buyer's obligation to pay the Price to the Service Provider, either party's liability in contract, tort or otherwise (including negligence) arising directly out of or in connection with this Agreement or the performance or observance of its obligations under this Agreement and every applicable part of it shall be limited in aggregate to the Price. b. Nothing in this Clause 2.3 will serve to limit or exclude either Party's liability for death or personal injury arising from its own negligence.	To the extent Permitted by law. The maximum liability of the Contractor to NU arising out of or in connection with this Agreement, whether such liability arises from any claim based upon contract, warranty, tort or otherwise, shall in no case exceed the actual amount paid to the Contractor by NU for contract equipment to be delivered hereunder. In no event will the Contractor be liable for any incidental damages, consequential damages, special damages, indirect damages, loss of profits, loss of revenues, or loss of use, these limitations and exclusions will apply regardless of whether liability arises from breach of contract, warranty, tort (including but not limited to negligence), by operation of law, or otherwise.	NIT conditions shall prevail

Clause, Section and Volume	Item Description	As per Bid Document	Prospective Bidder's Queries	REPLY
NOTICE INVITING TENDER - Page 142	2.4 Term and Termination	<p>a. This Agreement shall be effective on the date hereof and shall continue, unless terminated sooner in accordance with Clause 2.4(b), until the Completion Date.</p> <p>b. Either Party may terminate this Agreement upon notice in writing if:</p> <p>i. the other is in breach of any material obligation contained in this Agreement, which is not remedied (if the same is capable of being remedied) within 30 days of written notice from the other Party so to do; or</p> <p>ii. a voluntary arrangement is approved, a bankruptcy or an administration order is made or a receiver or administrative receiver is appointed over any of the other Party's assets or an undertaking or a resolution or petition to wind up the other Party is passed or presented (other than for the purposes of amalgamation or reconstruction) or any analogous procedure in the country of incorporation of either party or if any circumstances arise which entitle the Court or a creditor to appoint a receiver, administrative receiver or administrator or to present a winding-up petition or make a winding-up order in respect of the other Party.</p> <p>c. Any termination of this Agreement (howsoever occasioned) shall not affect any accrued rights or liabilities of either Party nor shall it affect the coming into force or the continuance in force of any provision hereof which is expressly or by implication intended to come into or continue in force on or after such termination.</p>	<p>We also propose additional wordings, for the contractor to terminate the contract, if NU defaults in its payment obligations:</p> <p>"The Contractor may terminate this Agreement for cause (including, but not limited to NU's failure to make payments as agreed herein) after giving NU written notice of its intent to terminate. If, within seven (7) days following receipt of such notice, NU fails to make the payments then due, or otherwise fails to cure or perform its obligations, the Contractor may, by written notice to NU, terminate this Agreement and recover payment for Work executed and for losses sustained for materials, tools, construction equipment and machinery idle charges, including but not limited to, reasonable overhead, profit and applicable damages."</p>	NIT conditions shall prevail
Make List 5A	10. CCTV / Video-Surveillance All types of Cameras (Indoor and Outdoor) – Fixed Dome, Fixed CSMount / Box, PTZ	10. CCTV / Video-Surveillance All types of Cameras (Indoor and Outdoor) – Fixed Dome, Fixed CSMount / Box, PTZ	Please include HONEYWELL in the approved make list.	NIT conditions shall prevail
Make List 5A	11. VMS Software Platform	11. VMS Software Platform	Please include HONEYWELL in the approved make list.	NIT conditions shall prevail
Make List 5A	16. Fire Detection & Alarm System	16. Fire Detection & Alarm System	Please include HONEYWELL in the approved make list.	NIT conditions shall prevail
Make List 5A	19. Access Control System Readers, Controllers	19. Access Control System Readers, Controllers	Please include HONEYWELL, HID in the approved make list.	NIT conditions shall prevail
Make List 5A	20. Access Control & Time Attendance Software Application	20. Access Control & Time Attendance Software Application	Please include HONEYWELL, HID in the approved make list.	NIT conditions shall prevail