



**NATIONAL INSTITUTE OF SECURITIES
MARKETS**

**Request for Proposal
For
Restructuring of CCTV Network
at
NISM Campus, Patalganga
(Document Reference No: NISM/ICT/RFP/01/2019-20)**

**NISM Bhavan, Plot No.: 82,
Sector - 17, Vashi,
Navi Mumbai: 400703
Tel: 022-66735100-02,
Fax: 022-66735110
Web: www.nism.ac.in**

1. INTRODUCTION

National Institute of Securities Markets (NISM) is a public trust established by Securities and Exchange Board of India (SEBI) with the objective of enhancing the quality of securities market in the country through knowledge-based interventions. The institute therefore conducts a number of educational and certification programs for Securities Market professionals and also various financial literacy initiatives for investors from all walks of life.

National Institute of Securities Markets has a campus on 70 Acres land at Patalganga, a location around 40 kilometres away from Vashi on Mumbai-Pune highway. The campus has a number of facilities i.e. Orientation Block (with ground plus first floor), Academic Blocks (four blocks with interconnecting corridor and each block with ground, first & Second floor), Student Blocks (Four blocks with each block having ground plus seven floors), an Amphi-Theatre, an Auditorium, a Recreation Block (Ground plus first floor), a Utility Block, a STP (Sewage Treatment Plant), Pump House and Residential Blocks.

Currently, NISM has deployed 280 IP based network of Dahua CCTV cameras across the campus. All these cameras are connected to a DSS Server through a campus-wide fiber optic network. The footages from CCTV cameras are stored on Dahua DSS Server.

This Request for Proposals (RFP) is for Restructuring of the existing CCTV network at NISM Campus, Patalganga. NISM wants to relocate existing 107 CCTV Cameras and deploy 66 new CCTV cameras (27 fix dom, 4 varifocal dom, 34 bullet and 1 PTZ), an NVR and other active and passive devices.

2. SUBMISSION OF PROPOSAL

The proposals must be prepared covering the following information and submitted to NISM at the address contained herein on or before the closing date specified in Section-9 of this document. Please refer the checklist given in Section 2.2 to ensure that submissions have all the required documents.

2.1 Proposal Submission Instructions

The proposal will be submitted in three separate sealed envelopes strictly following the instructions given below:

- The first sealed envelope will contain the Earnest Money Deposit (EMD) as mentioned in Section-2.3 and the envelope will be super scribed as “EMD for Restructuring of

CCTV Network at NISM Campus, Patalganga (Document Reference No.: NISM/ICT/RFP/01/2019-20)".

- The second sealed envelope will contain documents as mentioned in Section-2.2 confirming "Eligibility" of the bidder and the envelope will be super scribed as "Eligibility for Restructuring of CCTV Network at NISM Campus, Patalganga (Document Reference No.: NISM/ICT/RFP/01/2019-20)".
- The third sealed envelope will contain the Price Bid as mentioned in Section-2.2 and the envelope will be super scribed as "Price Bid for Restructuring of CCTV Network at NISM Campus, Patalganga (Document Reference No.: NISM/ICT/RFP/01/2019-20)".
- The three separately sealed envelopes should be put together in another sealed main envelope super scribed as "Proposal for Restructuring of CCTV Network at NISM Campus, Patalganga (Document Reference No.: NISM/ICT/RFP/01/2019-20)".
- The first and the second envelopes mentioned above must not contain any documents showing the bid price of the proposed products and services. If bid price figures are mentioned in any of the documents enclosed in envelope one or two, the proposal will be disqualified and will not be evaluated. The Price Bid will be enclosed only in Envelope-3 as mentioned Section 2.2.
- The Price Bid must be unconditional. Condition if any should be indicated in eligibility proposal only.

2.2 Checklist of Proposal Content

The bidders are advised to carefully take a note of the following table to ensure proper submission of proposal complete in all respects.

#	<u>Content Check list</u>
<u>Envelope -1: EMD</u>	
1.	EMD with cover letter Note: The bidder must write the name of the company and the RFP document reference number at the back of EMD Demand Draft/Bankers Cheque/Pay Order
<u>Envelope -2: ELIGIBILITY BID</u>	
1.	Company profile in the format as given in <u>Annexure-A</u>
2.	Letter of compliance with RFP terms and conditions in a format as stated in <u>Annexure-B</u> .
3.	Purchase Orders and Completion Certificates as mentioned in <u>Section 6.1</u> .
4.	Company balance sheets with profit and loss account statement for 3 years as stated in <u>Section 6.2</u> .
5.	Scope of work confirmation as per <u>Annexure-C</u>

6.	Certificate of incorporation of the company or the lead company of the consortium responding to the RFP
7.	Statement of Commitment to Delivery Schedule as per <u>Annexure-D</u>
8.	Manufacturer's Authorization Form as per <u>Annexure-E</u>
<u>Envelope -3: PRICE BID</u>	
1.	Price Bid in the format as per <u>Annexure-F</u>

2.3 Earnest Money Deposit

- Suppliers are required to provide an EMD of **Rs.58,000/-** (Rupees Fifty Eight Thousand only) by Demand Draft/Bankers Cheque/Pay Order drawn on any bank in Mumbai in favor of "National Institute of Securities Markets". The EMD must be valid for a minimum period of 3 months. Cheques for EMD will not be accepted and bids accompanying Cheques or without EMD will stand rejected.
- The bidder must write the name of the company and the RFP Document Reference Number at the back of EMD Demand Draft/Bankers Cheque/Pay Order.
- The EMD will be placed in Envelope-1 and submitted to NISM as indicated in Section-2.2.
- The EMD will be released to the unsuccessful bidders without interest soon after the tender is awarded.
- The EMD shall stand absolutely forfeited if the bidder revokes his bid during the period he is required to keep his bid open for acceptance by the institute.
- The EMD will not bear any interest.
- Bids not accompanied by EMD will be rejected.
- The EMD of the successful bidder will be released soon after receipt of The Performance Bank Guarantee in accordance with the condition stated in Section 7.
- EMD of the successful bidder will be forfeited if the project does not kick off within 10 working days from the date of issuance of Purchase Order. The "Project Kickoff" involves submission of final project schedule by the bidder in consultation with NISM and other stake holders.

2.4 Other Information

- The supplier is advised to study all technical and commercial aspects, instructions, forms, terms and specifications in the RFP carefully. Failure to furnish all information required in the Proposal or submission of a Proposal not substantially responsive to the RFP in every respect will be at the supplier's risk and may result in rejection of the proposal.

- The proposal not submitted in the prescribed format or incomplete in any manner are likely to be rejected.
- NISM is not responsible for non-receipt of proposals within the specified due date due to any reason including postal delay or holidays.
- The equipment/products quoted should not be from the discontinued production line. In case of discontinuation of production line after the issue of the purchase order, the supplier will supply the next higher configuration on the same terms and conditions.
- The prices quoted shall be in Indian Rupees only.
- Submission will be valid only if:
 - It is received on or before the closing date and time as stated in Section-9 of this document.
 - The submission is not by Fax or Email.
- Only one response to this RFP from each bidder will be permitted. In case of partnerships / consortium, only one submission is permitted through the lead bidder.
- All expenses incurred towards the preparation and submission of the Proposals by the bidder will be entirely borne by bidder themselves.
- NISM reserves the right to reduce or increase the scope of this RFP or cancel this RFP without stating any reasons whatsoever.
- NISM reserves the right to accept or reject any Proposal and to annul the bidding process and reject all Proposals at any time prior to award of the contract/purchase order, without thereby incurring any liability towards the affected supplier(s) or any obligation to inform the affected supplier(s) of the grounds for NISM's action.
- In the event of NISM requiring additional quantities of the equipment / products as stated in Section-3 within 1 year of placing the order to the selected bidder, the bidder will be required to supply the additional quantity at the same price as quoted in response to this RFP.
- Quantity of any of the items stated in this RFP may vary in the purchase order. NISM reserves the right to reduce or increase the quantity of an item or even completely remove an item while issuing the Purchase Order.

2.5 Contact Details

(a) The Proposals must be submitted in sealed envelopes as mentioned above to the following officer:

Mr. Narayana Maddala,
Senior Vice President (ICT),

National Institute of Securities Markets,
5th Floor, NISM Bhavan, Plot No. 82,
Sector - 17, Vashi, Navi Mumbai - 400 703.

(b) For any clarifications/queries contact the following person:

Mr. Vaibhav Dixit,
Deputy Manager - IT
National Institute of Securities Markets,
Academic Block D, Plot No. IS 1, 2& 3,
SEBI Road, Mohpada Village, Dist. Raigarh,
Maharashtra - 410222.
Email: vaibhav.dixit@nism.ac.in Contact Tel.: 02192-668380.

3. SCOPE OF WORK

The supplier is required to deliver, install, configure, test and commission the work as stated in this section. The supplier is required to quote for one or more than one of the given brand options except CCTV Cameras and NVR. NISM will evaluate and choose one of the options.

3.1 Specifications

#	Component Code	Component Description	Brand	Qty.	Key Specifications
1	FDC	IP based Fixed Dome CCTV Cameras with ceiling mount kit	Dahua	27	Camera Specification <ul style="list-style-type: none">• Image Sensor: 1/2.7" 2Megapixel progressive CMOS• IR Distance: Minimum 25 Meter• IR LED: Minimum 1 (in number)• Mount Type: Board In• Lens Type: Fixed• Focal Length: 2.8 mm• Resolution: 20fps@1080P(1920×1080) & 25/30fps@1.3MP(1280×960)• Video Compression: H.265/ H.264H/ MJPEG• Day/Night: Auto(ICR) / Color / B/W• BLC Mode: BLC / HLC / DWDR• WDR Mode: Must Support• Motion Detection: On / Off• Smart IR: Must Support• Image Enhancement: Backlight compensation / DNR / Exposure

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					<p>Control / AGC / Auto White Balance / Privacy Masking</p> <ul style="list-style-type: none"> • Digital Zoom: Minimum 16x • Ethernet: RJ-45 (Minimum 10/100Base-T)HTTP; TCP; ARP; RTSP; RTP; RTCP; UDP; DHCP; DNS; • Interoperability: ONVIF, PSIA, CGI • Protocol: HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; • Storage: Dahua DSS Server and NAS • Web Viewer: IE, Chrome, Firefox, Safari • Management Software: Smart PSS, DSS, Easy4ip • Power Supply: PoE and DC 12 V • Video Analytics: Must Support • Weather Protection Level: IP67 • Warranty and Support: Comprehensive On-Site and Telephonic Support and service for 3 years with effect from project signoff. <p>Mount Kit Specification</p> <ul style="list-style-type: none"> • Material: Aluminum • Color: White • Protection: IP67 • Please refer image J.1 in Annexure J.
2	VFDC	Vandal Proof Network IP based Varifocal Dome Cameras with ceiling mount kit	Dahua	4	<p>Camera Specification</p> <ul style="list-style-type: none"> • Image Sensor: 1/2.7" 2Megapixel progressive CMOS • IR Distance: Minimum 25 Meter • IR LED: Minimum 2 (in number) • Lens Type: motorized • Mount Type: Board In • Focal Length: Minimum 2.7 mm ~ 12mm varifocal lens • DORI Distance Recognize: Minimum 8.8 Meter (W), 27 Meter (T) • DORI Distance Identify: Minimum 4.4 Meter (W), 13 Meter (T)

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				<ul style="list-style-type: none"> • Resolution: 25/30fps@ 1080P(1920×1080) / 1.3M(1280×960) / 720P(1280×720)/ VGA(640×480)/ D1(704×576/704×480)/ CIF(352×288/352×240) • Video Compression: H.264+ & H.264 dual-stream encoding • Day/Night: Auto(ICR) / Color / B/W • Backlight Compensation: BLC / HLC / DWDR • WDR Mode: Must Support • Motion Detection: On / Off • Smart IR: Must Support • Image Enhancement: Backlight compensation / DNR / Exposure Control / AGC / Auto White Balance / Privacy Masking • Digital Zoom: Minimum 16x • Event Trigger: Motion detection, Video tampering, Network disconnection, Scene change, IP address conflict, Illegal Access, Storage anomaly • Ethernet: RJ-45 (Minimum 10/100Base-T) • Interoperability: ONVIF, PSIA, CGI • Protocol: HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP; • Storage: Dahua DSS Server and NAS • Web Viewer: IE, Chrome, Firefox, Safari • Management Software: Smart PSS, DSS, Easy4ip • Power Supply: PoE and DC 12 V • Video Analytics: Must Support • Weather Protection Level: IP67 • Warranty and Support: Comprehensive On-Site and Telephonic Support and service for 3 years after the cameras are commissioned.
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					<p><u>Mount Kit Specification</u></p> <ul style="list-style-type: none"> • Material: Aluminum • Color: White • Protection: IP67 • Please refer image J.1 in Annexure J.
3	LVBC	Network IP based Lite Varifocal Bullet Cameras with wall mount kit	Dahua	9	<p><u>Camera Specification</u></p> <ul style="list-style-type: none"> • Image Sensor: 1/2.7" 2Megapixel progressive CMOS • IR Distance: Minimum 35 Meter • IR LED: Minimum 2 (in number) • Lens Type: Motorized • Focal Length: 2.8mm~12mm • DORI Distance Recognize: minimum 8.8 meter (W), 27 meter(T) • DORI Distance Identify: minimum 4.4 meter(W), 13 meter(T) • Resolution:25/30fps@4M(2688 x 1520) /3M(2304x1296)/1080P(1920x1080) / 1.3M(1280x960)/720P(1280x720) /D1(704x576/704x480)/VGA(640x480)/ • Video Compression: H.264+ & H.264 • Day/Night: Auto(ICR) / Color / B/W • Backlight Compensation: BLC / HLC / DWDR • WDR Mode: Must Support • Motion Detection: On / Off • Smart IR: Must Support • Image Enhancement: Backlight compensation / DNR / Exposure Control / AGC / Auto White Balance / Privacy Masking • Digital Zoom: Minimum 16x • Ethernet:RJ-45 (Minimum 10/100Base-T) • Interoperability: ONVIF, PSIA, CGI • Protocol: HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP;FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS;UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;IGMP; SNMP • Storage: Dahua DSS Server and NAS

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					<ul style="list-style-type: none"> • Web Viewer: IE, Chrome, Firefox, Safari • Management Software: Smart PSS, DSS, Easy4ip • Power Supply: PoE (2.1W, 6.7W(IR On)) and DC 12 V • Video Analytics: Must Support • Weather Protection Level: IP67 • Operating Temperature: -30° C to 60° C (-22° F to 140° F) • Operating humidity: 5% to 95% non-condensing • Storage and transportation temperature range: -40° C to +70° C (-40° F to +158° F) • Wind survivability: Up to 165 mph • Warranty and Support: Comprehensive On-Site and Telephonic Support and service for 3 years after the cameras are commissioned. <p><u>Mount Kit Specification</u></p> <ul style="list-style-type: none"> • Material: Aluminum • Color: White • Protection: IP67 • It should be waterproof. • Please refer image J.2 & J.3 in Annexure J.
4	HPBC And HPWC	Network IP based Heavy (PRO) Bullet Cameras with pole and wall mount kit And Network IP based Heavy (PRO) Bullet Cameras with wall and wall mount kit	Dahua	16 (Pole Mount Bracket) & 9 (Wall Mount Bracket)	<p><u>Camera Specification</u></p> <ul style="list-style-type: none"> • Image Sensor: 1/3" 4Megapixel progressive scan CMOS • IR Distance: Minimum 45 Meter • IR LED: Minimum 4 (in number) • Lens Type: Motorized/ Auto Iris(DC) • Focal Length: minimum 3.6 mm • DORI Distance Recognize: minimum 13 meter (W), 41 meter (T) • DORI Distance Identify: minimum 6.5 meter(W), 20 meter (T) • Resolution: 25/30fps@ 4M(2688×1520)/ 3M(2304×1296)/ 1080P(1920×1080)/ 1.3M(1280x960)/

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				<p>720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240)</p> <ul style="list-style-type: none"> • Video Compression: H.265+/H.265/H.264+/H.264 • Day/Night: Auto(ICR) / Color / B/W • Backlight Compensation: BLC / HLC / DWDR • WDR Mode: Must Support • Motion Detection: On / Off • Smart IR: Must Support • Image Enhancement: Backlight compensation / DNR / Exposure Control / AGC / Auto White Balance / Privacy Masking • Digital Zoom: Minimum 16x • Ethernet:RJ-45 (Minimum 10/100Base-T) • Interoperability:ONVIF, PSIA, CGI • Protocol:HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP;FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS;UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;IGMP; SNMP • Storage: Dahua DSS Server and NAS • Web Viewer: IE, Chrome, Firefox, Safari • Management Software: Smart PSS, DSS,Easy4ip • Power Supply: PoE and DC 12 V • Video Analytics: Must Support • Weather Protection Level: IP67 • Operating Temperature:-30° C to 60° C (-22° F to 140° F) • Operating humidity: 5% to 95% non-condensing • Storage and transportation temperature range: -40° C to +70° C (-40° F to +15 8° F) • Wind survivability: Up to 165 mph • Warranty and Support: Comprehensive On-Site and
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					<p>Telephonic Support and service for 3 years after the cameras are commissioned.</p> <p><u>Wall Mount Kit Specification</u></p> <ul style="list-style-type: none"> • Material: Aluminum • Color: White • Protection: IP67 • It should be waterproof. • Please refer image J.2 & J.5 in annexure J. <p><u>Pole Mount Kit Specification</u></p> <ul style="list-style-type: none"> • Material: Aluminum • Color: White • Protection: IP67 • Dimension: 117.5mm x 87mm x 21mm • Please refer image J.4 & J.5 in Annexure J.
5	PTZC	Network IP based PTZ Camera with Mount Bracket (Kit)	Dahua	1	<p><u>Camera Specification</u></p> <ul style="list-style-type: none"> • Image Sensor: 1/2.8" STARVIS™ CMOS • Minimum Illumination: Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on) • IR Distance: Minimum 190 Meter • IR LED: Minimum 6 (in number) • Focal Length: 4.5mm~135mm • DORI Distance Recognize: minimum 372 meter • DORI Distance Identify: minimum 180 meter • PTZ Mode: 5 Pattern, 8 Tour, Auto Pan ,Auto Scan • Idle Motion: Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period • Event Trigger: Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly

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					<ul style="list-style-type: none"> • Resolution: 25/30fps@ 1080P(1920×1080)/ 1.3M(1280x960)/ 720P(1280×720)/ D1(704×576/704×480)/ VGA(640×480)/ CIF(352×288/352×240) • Video Interface: 1 port(BNC, 1.0V[p-p], 75Ω) • Video Compression: H.265+/H.265/H.264+/H.264 • Day/Night: Auto(ICR) / Color / B/W • Backlight Compensation: BLC / HLC / DWDR • WDR Mode: Must Support • Motion Detection: On / Off • Smart IR: Must Support • Image Enhancement: Backlight compensation / DNR / Exposure Control / AGC / Auto White Balance / Privacy Masking • Digital Zoom: Minimum 16x • Ethernet:RJ-45 (Minimum 10/100Base-T) • Interoperability:ONVIF, PSIA, CGI • Protocol:HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP;FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS;UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP;IGMP; SNMP • Storage: Dahua DSS Server and NAS • Web Viewer: IE, Chrome, Firefox, Safari • Management Software: Smart PSS, DSS,Easy4ip • Power Supply: PoE and DC 12 V • Video Analytics: Must Support • Weather Protection Level: IP67 • Operating Temperature:-30° C to 60° C (-22° F to 140° F) • Operating humidity: 5% to 95% non-condensing
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					<ul style="list-style-type: none"> • Storage and transportation temperature range: -40° C to +70° C (-40° F to +15 8° F) • Wind survivability: Up to 165 mph • Warranty and Support: Comprehensive On-Site and Telephonic Support and service for 3 years after the cameras are commissioned. <p><u>Pole Mount Kit Specification</u></p> <ul style="list-style-type: none"> • Material: Aluminum • Color: White • Protection: IP67 • Please refer image J.7 in annexure J.
6	3Mast	Mast for Network IP based PTZ Camera	Dahua, GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand	1	<p><u>Mast</u></p> <ul style="list-style-type: none"> • It should be stainless steel build. • Mast height should be of 3 feet. • 50mm outer diameter or an appropriate size as required. • Color: white
7	NVR	NVR	Dahua	1	<ul style="list-style-type: none"> • IP Camera Input: 64 channel • Hard Disk Storage Size: 48 TB • Internal HDD Slots: 8 SATA III Ports • Main Processor: Intel Quad Core Processor • Operating System: Embedded Linux • Interface: 2 HDMI (up to 3840 x 2160 , Different Source), 1 VGA • Resolution: 3840 x 2160 , 1920 x 1080 , 1280 x 1024, 1280 x 720 , 1024 x 768 • OSD: Camera title, Time, Video loss, Camera lock, Motion detection, Recording • Compression: H.265/H.264/MJPEG • Resolution: 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P etc. • Record Rate: 384 MBPS • Trigger Events: Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips

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					<ul style="list-style-type: none"> • Video Detection: Motion Detection, Video Loss and Tampering • Tracking Trigger Event: Zoom, Tracking, Recording, Preset, Snapshot, Alarm, etc. • Playback Function: Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom • Backup Mode: USB Device/Network/eSATA Device • Ethernet Port: 2 RJ-45 ports (10/100/1000Mbps) • Network Function: HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.) • USB: 4 USB ports (two 3.0 & two 2.0) • Power Supply: AC100V ~ 240V, 50 ~ 60 Hz • Operating Conditions: -10°C ~ +55°C • Dimension: 2U, 444mm x 457.08mm x 95mm • Installation: Rack Mounted
8	SW-Type-1	Unmanaged Switch 24 PoE Ports (Type1)	D-Link, HP, Cisco	3	<ul style="list-style-type: none"> • Number of Ethernet Ports : 24 (All 24 ports will be PoE ports) • Speed of Ethernet Port : 10/100/1000 Mbps • Layer-2 Switch • Unmanaged • Minimum Throughput: 20 Mbps • Power Cord : 01 • Form Factor : 1U • Size : 600*600 • Upto 25.5W power per port • With 3 Years Standard Warranty
9	SW-Type-2	Unmanaged Switch with 16 PoE ports (Type-2)	D-Link, HP, Cisco	1	<ul style="list-style-type: none"> • Number of Ethernet Ports : 16 (All 16 ports will be PoE ports) • Speed of Ethernet Port : 10/100/1000 Mbps

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					<ul style="list-style-type: none"> • Layer-2 Switch • Unmanaged • Number of SFP Ports : 2 (Loaded with Transceivers of 1 Gbps) (To be used for Fiber Uplinks) • Speed of SFP: 1 Gigabit • Minimum Throughput: 20 Mbps • Number of Power over Ethernet (POE) port: 16 • Upto 25.5W power per port • Power Cord : 01 • Form Factor : 1U • With 3 Years Standard Warranty
10	SW-Type-3	Unmanaged Switch 16 PoE Ports (Type3)	D-Link, HP, Cisco	3	<ul style="list-style-type: none"> • Number of Ethernet Ports : 16 (All 16 ports will be PoE ports) • Speed of Ethernet Port : 10/100/1000 Mbps • Layer-2 Switch • Unmanaged • Number of Power Over Ethernet(POE) port: 16 • Upto 25.5W power per port • Power Cord: 01 • Form Factor: 1U • With 3 Years Standard Warranty
11	Rack	6U Wall Mount Rack	D-Link, I-ball, Valreck , Rital, WQ or any other equivalent brand	3	<ul style="list-style-type: none"> • Front Door with Toughened Glass quality. • Adjustable Mounting rails - Front and Back • 1 Fan Mounting provision • Top and bottom cable entry provides Optimal flexibility for cable management • Easy wall mount provision • Frame structure with max loading capacity up to 60 kg • width 600mm x depth 600mm • Form factor: 6 U • 1 PDUs with 6 sockets each of 5 Amp • All sockets and plugs with round pins
12	OAP	Outdoor Access Point	Altai, D-Link, Cisco, HP	2	<ul style="list-style-type: none"> • It should support high-performance with wireless data rates up to 300 Mbps per radio and ensure peak performance

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					<p>by utilizing channel bonding, block acknowledgement and MIMO radios.</p> <ul style="list-style-type: none"> • It able to survive in harsh outdoor environments, withstand exposure to high and low temperatures, persistent moisture and precipitation, and are fully sealed to keep out airborne contaminants. • It should support two dual-band 2.4-GHz and 5-GHz radios with 2x2 MIMO and four external antenna connectors. • Antenna: Built-in minimum 14dBi 2x2 Dual-polarized Directional Antenna • Must be suitable to provide a wireless connectivity between two buildings that are around 200 to 300 Meters. • The Antenna should be Point to Point directional. • Power over Ethernet via LAN • Operating Temperature: -30° C to 60° C (-22° F to 140° F) • Operating humidity: 5% to 95% non-condensing • Operating altitude: Up to 3,000 meters (9,850 feet) • Storage and transportation temperature range: -40° C to +70° C (-40° F to +15 8° F) • Wind survivability: Up to 165 mph • Weather rating: IP67
13	6Mast	6 feet Masts for Outdoor Access Point	GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand	2	<ul style="list-style-type: none"> • It should be stainless steel built. • Mast height should be of 6 feet. • 50mm outer diameter or an appropriate size as found necessary. • Color: Dark Gray
14	Pole	3 metre Pole with base mount bracket and Anchor bolt for Outdoor Cameras	GI Pipes, Kalinga, Nezone, Bajaj or any other	7	<ul style="list-style-type: none"> • Pole height should be 3 Meter from ground. • 100 mm external diameter. • Heavy Duty Galvanized Steel Construction • Thickness: minimum 5mm

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			equivalent brand		<ul style="list-style-type: none"> • Length of anchor bolt: minimum 8 Inch • Stopper supplied for the top of pole • Service hatch at pole base to allow wiring connections • Pole heights listed are above ground • Suitable for painting when using metal primer base • Suitable for use with the range of pole mounting brackets • Heavy galvanized and bituminized underground section for long corrosion free life • Underground services opening for cables, conduits etc • Operating Temperature: -30° C to 60° C (-22° F to 140° F) • Operating humidity: 5% to 95% non-condensing • Storage and transportation temperature range: -40° C to +70° C (-40° F to +15 8° F) • Wind survivability: Up to 165 mph • Color: Dark Gray
15	ACAT6	Armoured Cat 6 Cable	D-Link, Polycab, Molex, Finolex	5900 (in Meter)	<ul style="list-style-type: none"> • Type of Cable: Cat 6 • Jelly Filled Armoured CAT6 cable. • Approx. 9.5 mm outer diameter
16	PVC	PVC Conduit 25 MM	Polycab, Legrand, Precision, Shree, Supreme	260 (in Meter)	<ul style="list-style-type: none"> • Diameter: 25 (in mm) • Polyvinyl Chloride Grade Material • Color: Cream
17	DWC	DWC Pipe	Polycab, Legrand, Shree, Supreme or any other equivalent brand	200 (in Meter)	<ul style="list-style-type: none"> • Inner Diameter: 50 (in mm) • Outer Diameter: 63 mm • Suitable to withstand heavy overload pressure (soil and traffic loads) and sustain various loads that will encounter during installation and in use.
18	RJ-45	RJ-45 Connector			<ul style="list-style-type: none"> • RJ-45 Connector as required

					• Punching and crimping of Armoured CAT6 Cable
--	--	--	--	--	--

3.2 Material Delivery

- a) The supplier will deliver the Goods and Services stated in Annexure-F. The actual quantity of items mentioned in Annexure-F used during the project implementation may vary from the estimated quantity.
- b) The bidders will quote for the estimated quantity as stated in Annexure-F. Payment shall be made based on actual quantity for Armoured CAT6 cables, DWC Pipes, PVC conduits and poles used at site.
- c) The bidder must choose and clearly specify an appropriate brand (from the given options for each component in Section 3.1) except for CCTV Cameras and NVR. The bidder must ensure compatibility of various components and optimum performance of solution as a whole while choosing the brands of various components.

3.3 Cabling Work

- The supplier is required to lay Armoured CAT-6 cables from Switch and terminate at designated locations for the new CCTV Cameras, relocation of 107 existing CCTV Cameras and other active components. NISM will provide the route to lay Armoured CAT6 cables from switch room to the new location of CCTV Camera. Please go through Annexure - G, H & I for details.
- All Armoured CAT6 cables shall be punched and crimped by the supplier at both ends. One end of the cable shall be terminated and plugged into the switch and other end shall be terminated and plugged into the CCTV cameras and other active devices as mentioned in Annexure-I.
- The supplier must use DLP to draw the cables in switch rooms. DLP is already installed in switch rooms.
- Laying of the Armoured CAT-6 shall be done as mentioned in the below table

#	Laying pattern of Armoured CAT6 Cable	Mode of Dressing
1	Through false ceiling and false flooring	Bare and saddling with GI wires
2	Over walls / Roof /ceiling and any other open space	PVC conduit
3	Trench / buried	DWC Pipe

- The supplier is required to install PVC conduit over wall and roof with proper dressing and saddling. Distance between saddles should not more than two meters. NISM shall

provide the whereabouts of the installation of PVC pipes at the necessary locations in the Campus.

- The supplier shall responsible to install the DWC pipe. NISM shall provide the whereabouts for the installation of DWC pipes at the Campus. Saddling of DWC pipe is required in the meter. Distance between saddles should not exceed 2 meters.
- The Supplier is responsible to carry out drilling, cutting, digging and burying tasks as and when required for laying CAT 6 cables, PVC conduit and DWC Pipes. The Supplier is responsible to pack/fill the perforated area post the laying of Armoured CAT 6 cables, PVC conduits and DWC pipes.

3.4 Installation of Pole

- Supplier shall do foundation work for the installation of poles.
- Foundation work for installation of pole shall not be less than 2 x 1 x 1 feet (in Height x Width x Depth) and in concrete only. Please see Annexure J for reference.
- The Supplier shall fix the DWC pipe into foundation while concrete work is going on.
- The Supplier shall fix the pole using anchor bolt on the foundation work.
- Supplier shall install lightning arrestor with earthing pit.
- Supplier shall install CCTV Camera clamp and camera termination box on the pole.

3.5 Installation of Mast and Outdoor Access Point (OAP)

- Supplier shall check the line of sight between Academic Block D and STP.
- Supplier shall fix two 6 feet masts on the roof of Academic Block D and STP and also tighten them properly.
- The supplier shall mount the OAPs on the masts. Supplier shall do install, configure, connect and test two Outdoor Access Points.

3.6 Installation of Racks and Switches

- The supplier shall mount and install 6U Rack on the wall as mentioned in Annexure-H.
- The supplier shall install and configure the switches in the designated racks in each block as mentioned in Annexure-H.

3.7 Installation of NVR

- The supplier shall install and configure NVR in BMS CCTV Area in the campus.

- Supplier shall configure the CCTV cameras as per the NISM's requirements at the time of installation.
- Supplier shall configure trigger alarm and video analytics as desired by NISM.

3.8 Relocation of Existing CCTV Cameras

- NISM has deployed 249 Dahua fix Dom CCTV cameras across the campus. The supplier is required to relocate the existing 107 Dahua fix Dom CCTV cameras as described under Annexure-G.
- The supplier shall dismount the existing 107 Dahua fix Dom CCTV cameras and brackets from the current locations.
- NISM shall provide the whereabouts for the remounting of the existing CCTV cameras.
- The supplier shall check and verify with NISM regarding the positioning of CCTV cameras before remounting them.
- The supplier shall carryout the appropriate cutting works to remount the existing CCTV cameras along with the brackets.
- The supplier shall lay Armoured CAT6 cable from the designated switch to the new location of CCTV Cameras.
- The supplier shall plug the Armoured CAT6 cables into the CCTV Cameras.
- The supplier shall reconfigure the CCTV cameras into existing Dahua DSS CCTV Server (Specification of DSS Server mentioned in ANNEXURE-K), if required.
- Supplier shall fill the perforations left during dismounting of the existing CCTV Cameras. Please refer the image in Annexure-J.

3.9 Installation and Testing of New CCTV Cameras

- The supplier shall install the new CCTV Cameras at the designated locations as mentioned in Annexure-H.
- The supplier shall install the fix dom and varifocal CCTV cameras on false ceiling / concrete ceiling.
- The supplier shall install the light and nine heavy (PRO) bullet cameras on the walls across the campus.
- The supplier shall install 16 heavy (PRO) bullet CCTV on the poles.
- The supplier shall install a 3 feet mast on the roof of utility block.
- On the said mast a PTZ camera shall also be installed
- NISM shall provide the exact locations for installing of the new CCTV cameras.

- The supplier must check and verify the positioning of new CCTV cameras with NISM before mounting the new CCTV Cameras.
- The supplier shall carryout the appropriate cutting works to remount the existing CCTV cameras along with the brackets.
- The supplier shall mount and install the said new cameras at the designated location along with their brackets.
- Armoured CAT6 cable will be plugged in into the CCTV Cameras
- Supplier will configure the fix dom and varifocal CCTV cameras into existing Dahua DSS CCTV Server (Specification of DSS Server mentioned in ANNEXURE K).
- The supplier shall configure bullet and PTZ cameras in the NVR.

3.10 Repairing Works

The Supplier shall fill all the perforations made during drilling and cutting into walls, false ceilings, ceilings, roofs, trench, manholes etc., digging of DWC pipes, unmounting and mounting the CCTV Cameras, mounting the rack, fixing of poles etc. Supplier will use the same size, thickness and color of material to fill the perforations. In case, the Supplier could not repair and restore the same, either NISM recover the cost of repairment from the supplier or the supplier's PBG forfeit.

3.11 Labeling

3.11.1 Labeling of Cat-6 cables

Each Armoured CAT-6 cable shall be labeled at two ends - the end terminating at switch and the other end terminating at CCTV Camera and outdoor access point. The labeling shall be done as per NISM standards. Ferrules shall be used for labeling the cable at switch end and laminated sticky label will be used on the CCTV Camera.

3.11.2 Labeling of Active devices

The following active devices will be labeled as per NISM standards. The supplier will use laminated stickers to label the devices. The list given below is not exhaustive and hence any other active device missing in the list given below will also be labeled.

- Switches
- Outdoor Access Point
- CCTV Cameras
- NVR

3.11.3 Labeling of Other Passive Components

Laminated stickers will be used to label the following passive components. Labeling will be done in accordance with NISM standards. The list given below is not exhaustive and hence any other passive device missing in the list given below will also be labeled.

- Rack
- Pole
- Mast

3.11.4 Dressing of Racks and Cables

After deploying the components, the supplier will ensure the following:

- a) CAT6 cables neatly connected with the switches.
- b) Proper dressing of cables in the rack using cable ties and clamps attached to the rack.
- c) Dressing and labeling of equipment and cables in the network rack as per NISM standards.
- d) Dressing and labeling especially the outdoor equipment to withstand any adverse climatic conditions.

3.12 Warranty and Support

The supplier shall provide for a period of **3 years'** comprehensive warranty and technical support & service (On-Site and Telephonic) with effect from project signoff. The selected bidder must arrange all updates and upgrades through respective OEMs. The supplier must provide all updates and upgrades for the proposed devices free of cost during warranty period. The supplier shall put in place all back to back support document for the active and passive components with respective OEMs for warranty and technical support and services and submit documents in support of the same.

3.13 Documentation

The supplier will provide the following documentation. The content and format of the documentation will be discussed and agreed with NISM prior to development/delivery of the documentation.

- a) Comprehensive configuration of the devices.
- b) Manuals of all devices (hard and/or soft copies).
- c) Drawing with exact location of CCTV Cameras. NISM shall provide drawings of all student hostels, MDP, Academic blocks, Recreation, Security rear gate, Utility block, Library and Auditorium. The drawing will be in Autocad.

3.14 Acceptance Testing

NISM shall carry out the following “User Acceptance Testing” with the assistance of the Supplier. A comprehensive test plan will be prepared by the Supplier in consultation with NISM prior to commencement of testing

- a) CCTV Cameras functionality Testing
- b) Testing of Armoured CAT-6 Cabling
- c) Connectivity Testing
- d) NVR Testing
- e) Stability testing for pole and mast.

3.15 Precautionary Measure

The Supplier shall take necessary precaution/care while handling and installing various components as mentioned in the scope of work to avoid any damage to the existing infrastructure of the campus. If any damage occurs, the Supplier is solely responsible for repairing and restoring the same back to its original state at one's own cost. In case, the Supplier could not repair and restore the damaged infrastructure, NISM shall deduct the cost of repairment at the time of release of payment to the Supplier.

3.16 Location:

The entire scope of work as mentioned in Section 3 shall be delivered and carried out at the following location:

National Institute of Securities Markets,
Patalganga Campus,
Plot No IS 1&2, SEBI Road,
Patalganga Industrial Area,
Mohapada, Khalapur
Patalganga.
District - Raigad, Maharashtra

4. DELIVERY, INSTALLATION, CONFIGURATION AND PROJECT SIGN OFF

The estimated delivery period for the entire scope of work stated in Section 3 is two months from the date of issuance of Purchase Order. This includes comprehensive project planning, resource mobilization, material delivery, installation and configuration of all components, delivery of other associated services, acceptance testing and Project Sign Off.

5. BID PRICE VALIDITY PERIOD

The quoted prices for the equipment will remain valid for a period of three months from the date of closure of this RFP.

6. ELIGIBILITY CRITERIA

The Company/Bidder/Supplier intending to submit Proposals must meet the following criteria. **The Proposal of the suppliers not meeting these criteria shall be rejected.** NISM may ask for supplementary information or additional documents as necessary by email only to address inadequacy of information to develop more clarity at the time of eligibility assessment of each bidder within 08 days from the date of opening of envelopes containing EMD and Eligibility Information (Envelope-1 and Envelope-2). NISM is not responsible for any delay in receiving responses or non-receipt of any response from the bidders to such requests. All email correspondence will be addressed to the email id mentioned under **Section 2.5 (b).**

6.1 Experience

Should have carried out installation and configuration of similar installation and configuration of CCTV cameras at either of the following scales in the past 3 years (ending March, 2019). Please note that the purchase orders must be for installation and configuration of CCTV cameras.

Should have executed three orders of similar nature, each order not less than Rs. 11,20,000/- (Rupees Eleven Lakhs Twenty Thousand only).

OR

Should have executed two orders of similar nature, each order value not less than Rs. 14,50,000/- (Rupees Fourteen Lakhs Fifty Thousand Only).

OR

Should have executed one order of similar nature not less than Rs. 23,20,000/- (Rupees Twenty-Three Lakhs Twenty Thousand Only).

The Bidder/Lead Bidder (in case of a consortium) must enclose copies of Purchase Orders and Completion Certificates in support of the above. In case of a Lead Bidder, the Purchase Orders must be in the name of the Lead Bidder. This should be submitted in Envelope-2 as stated in Section-2.2.

6.2 Company Turnover

The company must have a minimum turnover of Rs. 50,00,000/- (Fifty Lakhs Only) per annum for the FY 2017-18, FY 2016-17 and FY 2015-16 (Please note that the turnover of each year is expected to be a minimum of Rs. 50,00,000/- per financial year).

In case of a consortium, Bidder/Lead Bidder must enclose copies of Audited Company Balance sheet along with Profit and Loss Account statement for the said financial years. This should be submitted in Envelope-2 as stated in Section-2.2.

6.3 Scope of Work Confirmation

Supplier will provide confirmation regarding scope of work to be executed in the format as stated in Annexure-C of this RFP.

6.4 Manufacturer's Authorization Form

The supplier shall provide Manufacturer's Authorization Form duly filled, signed and sealed as mentioned in Annexure-E.

All the information pertaining to Section-6.1 to 6.4 in Envelope- 2 as mentioned in Section2.2.

7. PERFORMANCE BANK GUARANTEE (PBG)

The selected supplier will be required to submit a Bank Guarantee of 10% of the Bid Price (inclusive of GST) covering the scope of work as stated in Section-3. The Bank Guarantee will be valid for a period of 9 months from the date of issuance of the Bank Guarantee or 6 months from the date of signing the project off, whichever is longer. The Bank Guarantee of correct value and validity period as mentioned above must be submitted within Seven working days from the date of issuance of the Purchase / Work order. In case the supplier fails to submit the said performance bank guarantee within the said time frame the Earnest Money deposited by the supplier shall be forfeited automatically without any notice to the contractor. The bank guarantee will be promptly extended by the supplier (if required) by a suitable period in line with the above mentioned validity period. The bank guarantee from Cooperative Banks will not be acceptable.

8. EVALUATION OF PROPOSALS

8.1.Evaluation Process

The evaluation process will be as follows:

- i. Envelope-1 containing EMD will be opened first. The EMD will be checked in accordance with Section 2.3.
- ii. Envelope-2 containing Eligibility Criteria of only those bidders whose EMD is found to be in order will be opened and checked against the Eligibility criteria stated in Section-6 for compliance.
- iii. Envelope-3 containing Price bid of only those bidders who meet the Eligibility Criteria will be opened and evaluated by the procurement committee of NISM. The price bid will be checked for completeness as per Annexure-F and also for possible errors if any. The bid price is the total cost of all equipment, software and services.
- iv. The Purchase Order will be issued to the bidder with the lowest bid price.

All decisions made by the Procurement Committee of NISM during the evaluation process will be final and binding on all bidders.

8.2. Notification to Unsuccessful Bidders

Unsuccessful bidders will be notified by email after the proposals are evaluated and Purchase Order is issued to the successful bidder. Any queries regarding an unsuccessful Proposal shall be mailed to the contact address mentioned in Section-2.5 (b) of this document.

9. IMPORTANT DATES

Bidders are requested to take note of the following dates:

- **Date of Issuance of RFP:** 10th May 2019
- **Pre-bid meeting to seek clarifications regarding the RFP:** 20th May 2019 at 14:00 hours. The pre-bid meeting with all prospective bidders shall be held in the IT Meeting Room, Data Center, Academic Block-D, NISM Campus, Plot No: IS 1&2, Village Mohopada, Patalganga, Distt. Raigarh. Only two representatives of each supplier are requested to attend the meeting.
- **Date and Time of submission of duly filled and sealed Proposal:** 30th May 2019 by 16:30 hours.
- **Opening of Envelope containing EMD and Eligibility Information:** 30th May 2019 at 17:00 hours in the Board Room, 5th Floor, NISM Bhavan, Vashi, Navi Mumbai - 400703.
- **Opening of Price Bids:** 14th June 2019 at 16:00 hours in the Board Room, 5th Floor, NISM Bhavan, Vashi, Navi Mumbai - 400703.

10. PAYMENT PLAN

NISM will issue a Purchase Order for the project covering the entire scope of work as stated in **Section-3**. 100% payment for the entire scope of work as stated in **Section-3** shall be made only after project sign-off upon submission of invoices.

11. SIGNING OF PROPOSALS

The Proposal comprising of the documents mentioned in **Section-2.2** shall be typed or written in ink and shall be signed by a person or persons duly authorized by the supplier to bind the supplier to the contract. All pages of the Proposal, except un-amended printed literature, shall be initialed by the person or persons signing the Proposal. The Proposal shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the supplier, in which case such corrections shall be initialed by the person or persons signing the Proposal.

12. PENALTY FOR DELAY

The supplier must strictly adhere to the delivery, installation and configuration schedule given in Section-4. The supplier shall have to pay penalty to NISM @ One percent (1%) per week on the value of the purchase order inclusive of GST, duties levies etc. per week for late delivery. There shall be an upper limit of 10% of the gross amount (i.e. total order value) for the penalty to be deducted. The applicable penalty will be deducted from the amounts due for payment. In case of delay beyond 6 weeks from the stipulated delivery, installation and configuration schedule (as per Section-4), NISM reserves the right to terminate the contract by recovering the penalty. Also, the Performance Bank Guarantee will be forfeited in the event of termination of the contract. The supplier will be asked to remove all equipment pertaining to any work in progress not acceptable to NISM and will not be paid for the concerned equipment and services. NISM also reserves the right to engage a third party supplier to complete the ongoing works to its satisfaction and recover the cost of the same from the terminated supplier.

13. INSPECTION

NISM or its representative will carry out inspection and testing to ascertain the conformity of the goods and services to the stated in section 3. Should any inspected or tested equipment fail to conform to the specifications or it is found to be not as per the purchase order, NISM may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet specification requirements free of additional cost to NISM.

14. INDEMNITY

The supplier shall indemnify, protect and save NISM against all claims, losses, costs, damages, expenses, action suits and other proceedings resulting from infringements in respect of all hardware and software supplied to NISM.

15. ARBITRATION

In the event of a dispute or difference of any nature whatsoever between NISM and the supplier during the course of assignment arising as a result of this RFP, the same shall be referred for arbitration to the panel of arbitrators. The panel shall be constituted prior to commencement of arbitration and shall comprise of two arbitrators and an umpire. NISM and the supplier shall each nominate an arbitrator to the panel and these arbitrators shall appoint an umpire. Arbitration shall be carried out at NISM office in Navi Mumbai and as per extant laws.

16. JURISDICTION

The jurisdiction for the purpose of settlement of any dispute of differences whatsoever in respect of or relating to or arising out of or in any way touching the works awarded or the terms and conditions thereof shall be that of the appropriate court in Mumbai. The jurisdiction of any other court in any place other than Mumbai is specifically excluded.

17. FORCE MAJEURE

Should either party be prevented from performing any of its obligations under this RFP by reason of any cause beyond its reasonable control, the time for performance shall be extended until the operation or such cause has ceased, provided the affected party gives prompt notice to the other of any such factors or inability to perform, resumes performance as soon as such factors disappear or are circumvented. If under this clause either party is excused of performance of any obligation for a continuous period of 90 days, then the other party may at any time hereafter while such performance continuous to be excused, terminate this agreement without liability, by notice in writing to the other. In all such cases NISM's decision shall be final and binding on all concerned.

ANNEXURE -A

(Company Profile. This should be included in Envelope 2)

Name of the company	
Legal Status (e.g., sole proprietor, partnership, limited liability partnership, corporation etc., (Attach a copy of the certificate of incorporation)	
Physical Address	
Business Profile of the company (Attach a separate write-up or brochure that provides details of the business activities of the company)	
Email ID of the company	
PAN Number of the company	
GSTIN Number of the company	
Name of the Contact Person with Mobile and land line Number	

Request for proposal for Restructuring of CCTV Network at
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Company Name as it appears in its Bank Account	
Bank Account Number	
Type of Account	
Bank Name	
Bank's Branch Address	
Bank Branch IFS Code	

Signature of the Authorized Signatory of Company
Name:
Designation:
Contact no. (Mobile):
Email Id:
Company Seal:

ANNEXURE -B

(This will be part of Eligibility Information. This should be included in Envelope 2 and should be on the company letterhead)

Date:

To,

National Institute of Securities Markets,
NISM Bhavan, Plot No: 82, Sector - 17, Vashi,
Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: Response to the Request for Proposal for Restructuring of CCTV Works at NISM Campus, Patalganga (Document Reference No: NISM/ICT/RFP/01/2019-20) as well as Confirmation of Office/Service Centre in Mumbai/Navi Mumbai.

1. Having examined the Request for Proposal including Annexures, the receipt of which is hereby duly acknowledged, we, the undersigned offer to supply, install and configure the equipment in accordance with the scope of work as stated in Section-3 of the RFP within the cost stated in the Proposal.
2. If our Proposal is accepted, we undertake to abide by all terms and conditions of this RFP and also to comply with the delivery schedule as mentioned in the RFP.
3. We certify that we have provided all the information requested by NISM in the requested format. We also understand that NISM has the right to reject this offer if NISM finds that the required information is not provided or is provided in a different format not suitable for evaluation process for any other reason as it deems fit. NISM's decision shall be final and binding on us.
4. We here at confirm that we have fully operational office/service centre in Mumbai/Navi Mumbai. The address and other contact details of the office/service centre are given below:

Request for proposal for Restructuring of CCTV Network at
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COMPANY NAME: _____

ADDRESS: _____

TEL: _____

Email: _____

Mobile: _____

Thank you.
Yours faithfully,

Signature of the Authorized Signatory of Company

Name:

Designation:

Contact no. (Mobile):

Fax and Email Address:

Official Seal:

(This letter should be typed on the letterhead of the Company and must be signed by the Authorized Signatory of the Company/Lead Company of the Consortium)

ANNEXURE -C

Confirmation to Scope of Work

(Fill in all blanks as appropriate. Also read Section-3 of the RFP before filling the following Form. The duly filled form must be submitted in Envelope-2.)

1. COMPANY NAME:

2. ADDRESS:

3. CONTACT PERSON:

4. PHONE NUMBER:

5. EMAIL:

6. WEB SITE:

Specifications (Attach Product Brochure also, if available)

We confirm that the following components and services will be delivered in accordance with the Terms and Conditions of the RFP meeting the stated requirements (Document Reference Number NISM/ICT/RFP/01/2019-20)

A. Components

#	Component Code	Component Description	Brand	Model No	Specifications (Either provide Brochures/documents or URL on the Web)	Qty.	Specify Additional features if any. Otherwise

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							write "Yes" against each item if the proposed equipment has same specifications as stated in Section-3 of the RFP.
1	FDC	IP based Fixed Dome CCTV Cameras with ceiling mount kit	Dahua			27	
2	VFDC	Vandal Proof Network IP based Varifocal Dome Cameras with ceiling mount kit	Dahua			4	
3	LVBC	Network IP based Lite Varifocal Bullet Cameras with wall mount kit	Dahua			9	
4	HPBC	Network IP based Heavy (PRO) Bullet Cameras with pole and wall mount kit	Dahua			16	
6	HPWC	Network IP based Heavy (PRO) Bullet Cameras with wall mount kit	Dahua			9	
5	PTZC	Network IP based PTZ Camera with Mount Bracket (Kit)	Dahua			1	
6	3Mast	Mast for Network IP	Dahua, GI Pipes, Kalinga,			1	

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		based PTZ Camera	Nezone, Bajaj or any other equivalent brand				
7	NVR	NVR	Dahua			1	
8	SW-Type-1	Unmanaged Switch 24 PoE Ports (Type1)	HP, D-Link, Cisco, Aruba			3	
9	SW-Type-2	Unmanaged Switch with 16 PoE ports (Type-2)	HP, D-Link, Cisco, Aruba			1	
10	SW-Type-3	Unmanaged Switch 16 PoE Ports (Type3)	HP, D-Link, Aruba			3	
11	Rack	6U Wall Mount Rack	D-Link, I-ball, Valreck, Rital, WQ or any other equivalent brand			3	
12	OAP	OutDoor Access Point	Altai, D-Link, Cisco, HP			2	
13	6Mast	6 feet Masts for Outdoor Access Point	GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand			2	
14	Pole	3 meter Pole for Outdoor Cameras	GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand			7	
15	Acat6	Armoured Cat6 Cable	D-Link, Polycab, Molex, Finolex			5900 (in Meter)	
16	PVC	PVC Conduit 25 MM	Polycab, Legrand, Precision,			260 (in Meter)	

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			Shree, Supreme				
17	DWC	DWC Pipe	Polycab, Legrand, Shree, Supreme or any other equilent brand			200 (in Meter)	

B. Services

#	SERVICE	Confirm (Yes/No)	Remarks
1	Delivery of items as per Section 3.1 and 3.2		
2	Armoured Cat - 6 Cabling Work as per Section 3.3		
3	Installation of PVC Conduit as per Section 3.3		
4	Installation of DWC pipe as per section 3.3		
5	Foundation work to mount pole as per section 3.4		
6	Installation of pole as per section 3.4		
7	Installation of mast as per section 3.5		
8	Installation of Outdoor Access Point as per section 3.5		
9	Installation of Switches as per section 3.6		
10	Installation of Rack as per section 3.6		
11	Relocation of existing CCTV Cameras as per Section 3.8		
12	Installation of new CCTV Cameras as per section 3.9		

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13	Installation of NVR as per section 3.7		
14	Repairing Works as per section 3.10		
15	Labeling Work as per Section 3.11		
16	User Acceptance Testing "UAT" as per section 3.14		
17	Warranty Support & Service as per Section 3.12		
18	Documentation as per Section 3.13		
19	Precautionary Measures as per section 3.15		
20	Delivery at the location as per Section 3.16		

Signature of the Authorized Signatory of Company
Name:
Designation:
Contact no (mobile):
Email Id:
Company Seal:

ANNEXURE -D

(This will be submitted in Envelope-2)

Date:

To
Senior Vice President (ICT)
National Institute of Securities Markets,
NISM Bhavan,
Plot No: 82, Sector - 17, Vashi,
Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: **Letter of Commitment to delivery Lead time for RFP No.: NISM/ICT/RFP/01/2019-20**

We commit to the delivery lead time as stated in Section-4 of the RFP.

Thank you.

Yours faithfully,

Signature of the Authorized person

Name:

Designation:

Phone No. (Mobile):

Fax and Email Address:

Official Seal:

(This letter should be typed on the letterhead of the Company and must be signed by the Authorized Signatory of the Company/Lead Company of the Consortium)

ANNEXURE -E

(This will be submitted in Envelope-2, should be typed on the letterhead of the Manufacturer and must be signed by the Authorized Signatory of the Manufacturer)

Date:

To
Senior Vice President (ICT)
National Institute of Securities Markets,
NISM Bhavan,
Plot No: 82, Sector - 17, Vashi,
Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: **Manufacturer's Authorization Form**

We *(insert name of the manufacturer)*, the manufacturers of original equipment Located at *(insert address of the registered office)* do hereby authorize M/s. *(insert Name and address of Supplier)* to submit a bid, negotiate and receive the order from you.

We hereby extend our full guarantee and warranty for the goods and services offered by the above mentioned supplier. Warranty Services will be continued directly by us or by another authorized partner or dealer in the event of the above mentioned supplier not being able to continue with the warranty services during the warranty period.

Thank you.

Yours faithfully,

Signature of the Authorized person

Name:

Designation:

Phone No (Mobile):

Fax and Email Address:

Official Seal:

ANNEXURE -F Price Bid

(Must be submitted in the 3rd sealed envelope as mentioned in Section-2.2)

COMPANY NAME: _____

ADDRESS: _____

CONTACT PERSON: _____ PHONE NUMBER: _____

EMAIL: _____ WEB SITE: _____

Cost of Items:

# (1)	Component Code (2)	Component Description (3)	Brand (4)	Model (5)	Qty. (6)	Unit Price (Incl. of GST) (Rs.) (7)	Total (Incl. of GST) (Rs.) (6) x (7)
1	FDC	IP based Fixed Dome CCTV Cameras with ceiling mount kit	Dahua		27		
2	VFDC	Vandal Proof Network IP based Varifocal Dome Cameras with ceiling mount kit	Dahua		4		
3	LVBC	Network IP based Lite Varifocal Bullet Cameras with wall mount kit	Dahua		9		
4	HPBC	Network IP based Heavy (PRO) Bullet	Dahua		16		

**Request for proposal for Restructuring of CCTV Network at
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		Cameras with pole and wall mount kit				
6	HPWC	Network IP based Heavy (PRO) Bullet Cameras with wall mount kit	Dahua		9	
5	PTZC	Network IP based PTZ Camera with Mount Bracket (Kit)	Dahua		1	
6	3Mast	Mast for Network (IP) based PTZ Camera	Dahua, GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand		1	
7	NVR	NVR	Dahua		1	
8	SW-Type-1	Unmanaged Switch 24 PoE Ports (Type1)	HP, D-Link, Cisco, Aruba		3	
9	SW-Type-2	Unmanaged Switch with 16 PoE ports (Type-2)	HP, D-Link, Cisco, Aruba		1	
10	SW-Type-3	Unmanaged Switch 16 PoE Ports (Type3)	HP, D-Link, Aruba		3	
11	Rack	6U Wall Mount Rack	D-Link, I-ball, Valreck, Rital, WQ or any other equivalent brand		3	
12	OAP	Out Door Access Point	Altai, D-Link, Cisco, HP		2	
13	6Mast	6 feet Masts for Outdoor Access Point	GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand		2	

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14	Pole	3 meter Pole for Outdoor Cameras	GI Pipes, Kalinga, Nezone, Bajaj or any other equivalent brand		7		
15	Acat6	Armoured Cat6 Cable	D-Link, Polycab, Molex, Finolex		5900 (in Meter)		
16	PVC	PVC Conduit 25 MM	Polycab, Legrand, Precision, Shree, Supreme		260 (in Meter)		
17	DWC	DWC Pipe	Polycab, Legrand, Shree, Supreme or any other equivalent brand		200 (in Meter)		
18	N.A.	Relocation of Domestic CCTV Cameras with Ceiling refilling and touch up maintaining as same as before for cameras being relocated	N.A.	N.A.	107		
19	N.A.	Digging / Cutting / refilling and any other repairing works	N.A.	N.A.	1		
						Total Cost (Incl. of GST)	

Signature of the Authorized Signatory of Company

Name:

Designation:

Contact no. (Mobile):

Email Id:

Company Seal:

ANNEXURE -G

Relocation of CCTV Cameras Building wise

#	Dismount From	Quantity	Dismount Ref. Figure	Mount To	Quantity	Mount Ref. Figure
IP Based Fixed DOM Cameras						
MDP Block						
1	Ground Floor	1	MDP.1	Ground Floor	2	MDP.1, MDP.3
2	First Floor	3	MDP.2	First Floor	3	MDP.2
3	Second Floor	3	MDP.3	Second Floor	2	MDP.1, MDP.3
4	Third Floor	3	MDP.3	Third Floor	2	MDP.3, ACAD-A.1
5	Fourth Floor	3	MDP.3	Fourth Floor	2	MDP.3, ACAD-A.1
6	Fifth Floor	3	MDP.3	Fifth Floor	2	MDP.3, ACAD-A.1
7	Six Floor	3	MDP.3	Six Floor	2	MDP.3, ACAD-A.1
8	Seventh Floor	3	MDP.3	Seventh Floor	2	MDP.3, ACAD-A.1
Student Hostel - 1						
1	Ground Floor	1	SH-1.1	Ground Floor	2	SH-1.1, SH-1.2
2	First Floor	3	SH-1.2	First Floor	3	SH-1.1, SH-1.2, SH-3.2
3	Second Floor	3	SH-1.2	Second Floor	2	SH-1.2, ACAD-B.1
4	Third Floor	3	SH-1.2	Third Floor	2	SH-1.2, ACAD-B.1
5	Fourth Floor	3	SH-1.2	Fourth Floor	2	SH-1.2, ACAD-B.1
6	Fifth Floor	3	SH-1.2	Fifth Floor	2	SH-1.2, ACAD-B.1
7	Six Floor	3	SH-1.2	Six Floor	2	SH-1.2, ACAD-B.1
8	Seventh Floor	3	SH-1.2	Seventh Floor	2	SH-1.2, ACAD-B.1
Student Hostel - 2						
1	Ground Floor	1	SH-2.1	Ground Floor	2	SH-2.1, SH-2.2
2	First Floor	3	SH-2.2	First Floor	2	SH-2.1, SH-2.2
3	Second Floor	3	SH-2.2	Second Floor	2	SH-2.2, ACAD-B.3
4	Third Floor	3	SH-2.2	Third Floor	2	SH-2.2, ACAD-B.3
5	Fourth Floor	3	SH-2.2	Fourth Floor	2	SH-2.2, ACAD-B.3
6	Fifth Floor	3	SH-2.2	Fifth Floor	2	SH-2.2, ACAD-B.3
7	Six Floor	3	SH-2.2	Six Floor	2	SH-2.2, ACAD-B.3
8	Seventh Floor	3	SH-2.2	Seventh Floor	2	SH-2.2, ACAD-B.3
Student Hostel - 3						
1	Ground Floor	1	SH-3.1	Ground Floor	2	SH-3.1, SH-3.2
2	First Floor	3	SH-3.2	First Floor	3	SH-3.1, SH-3.2
3	Second Floor	3	SH-3.2	Second Floor	2	SH-3.2
4	Third Floor	3	SH-3.2	Third Floor	2	SH-3.2, SH-1.2

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5	Fourth Floor	3	SH-3.2	Fourth Floor	2	SH-3.2, ACAD-B.2
6	Fifth Floor	3	SH-3.2	Fifth Floor	2	SH-3.2, ACAD-B.2
7	Six Floor	3	SH-3.2	Six Floor	2	SH-3.2, ACAD-B.3
8	Seventh Floor	3	SH-3.2	Seventh Floor	2	SH-3.2, ACAD-B.3
Academic Block A						
1	Ground Floor	2	ACAD-A.1	Ground Floor	7	MDP.3, ACAD-A.1
2	First Floor	1	ACAD-A.2	First Floor	3	ACAD-D.1
3	Second Floor	3	ACAD-A.3	Second Floor	3	ACAD-D.1
Academic Block B						
1	Ground Floor	1	ACAD-B.1	Ground Floor	7	SH-1.2
2	First Floor	1	ACAD-B.2	First Floor	3	SH-3.2
3	Second Floor	0	ACAD-B.3	Second Floor	8	SH-2.2, SH-3.2
Academic Block D						
1	Lower Ground Floor	4	ACAD-D.1	Lower Ground Floor	0	N.A.
2	Ground Floor	2	ACAD-D.1	Ground Floor	2	ACAD-D.1
3	First Floor	1	ACAD-D.2	First Floor	1	ACAD-D.2
Orientation Block						
1	Ground Floor	3	OB.1	Ground Floor	3	OB.1
2	First Floor	1	OB.2	First Floor	1	OB.2
3	Second Floor	1	OB.3	Second Floor	1	OB.3
Auditorium Block						
1	VIP Entry	1	Audi.1	VIP Entry	1	Audi.1

**Request for proposal for Restructuring of CCTV Network at
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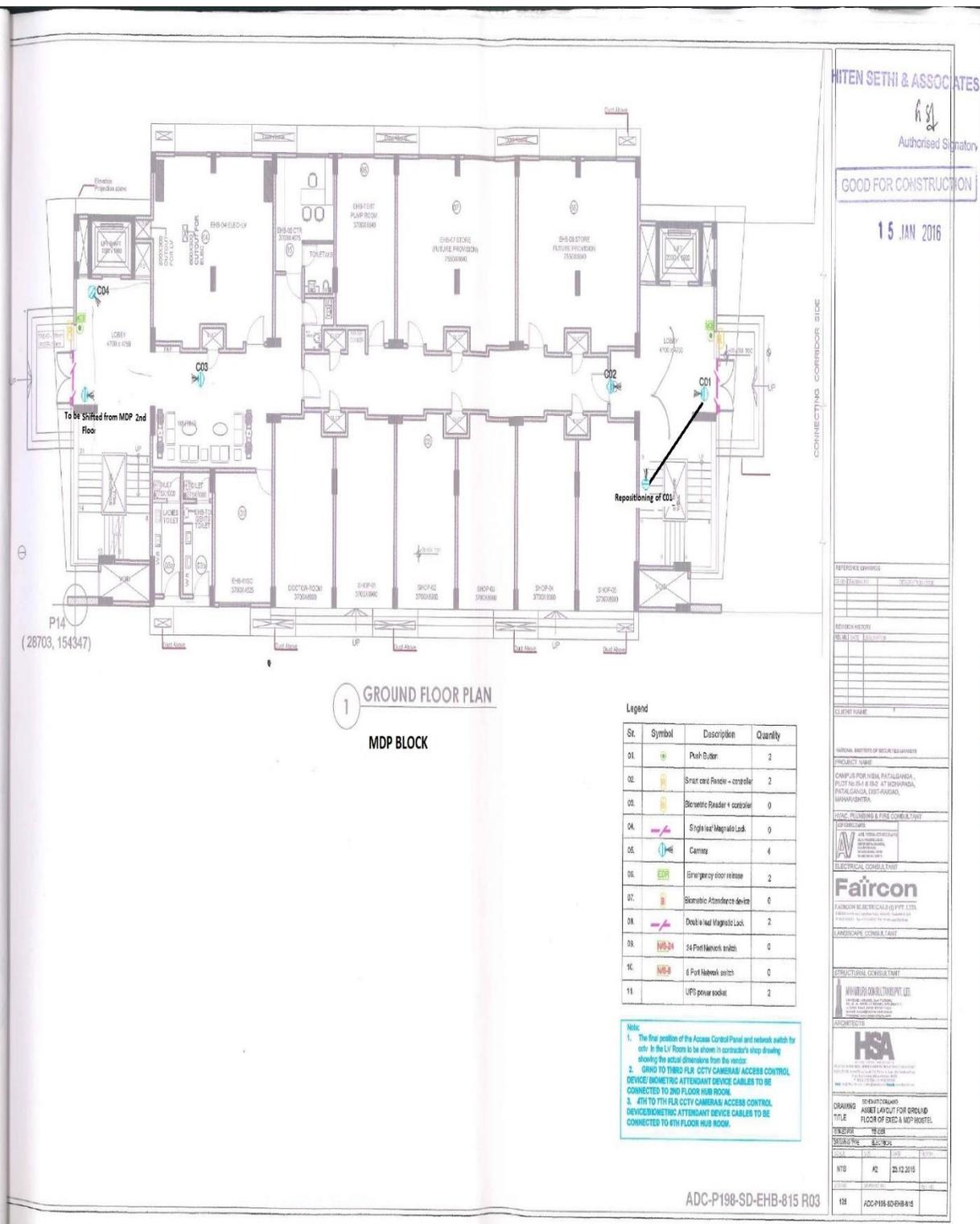


Fig: MDP.1

**Request for proposal for Restructuring of CCTV Network at
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(Document Reference No: NISM/ICT/RFP/01/2019-20)**

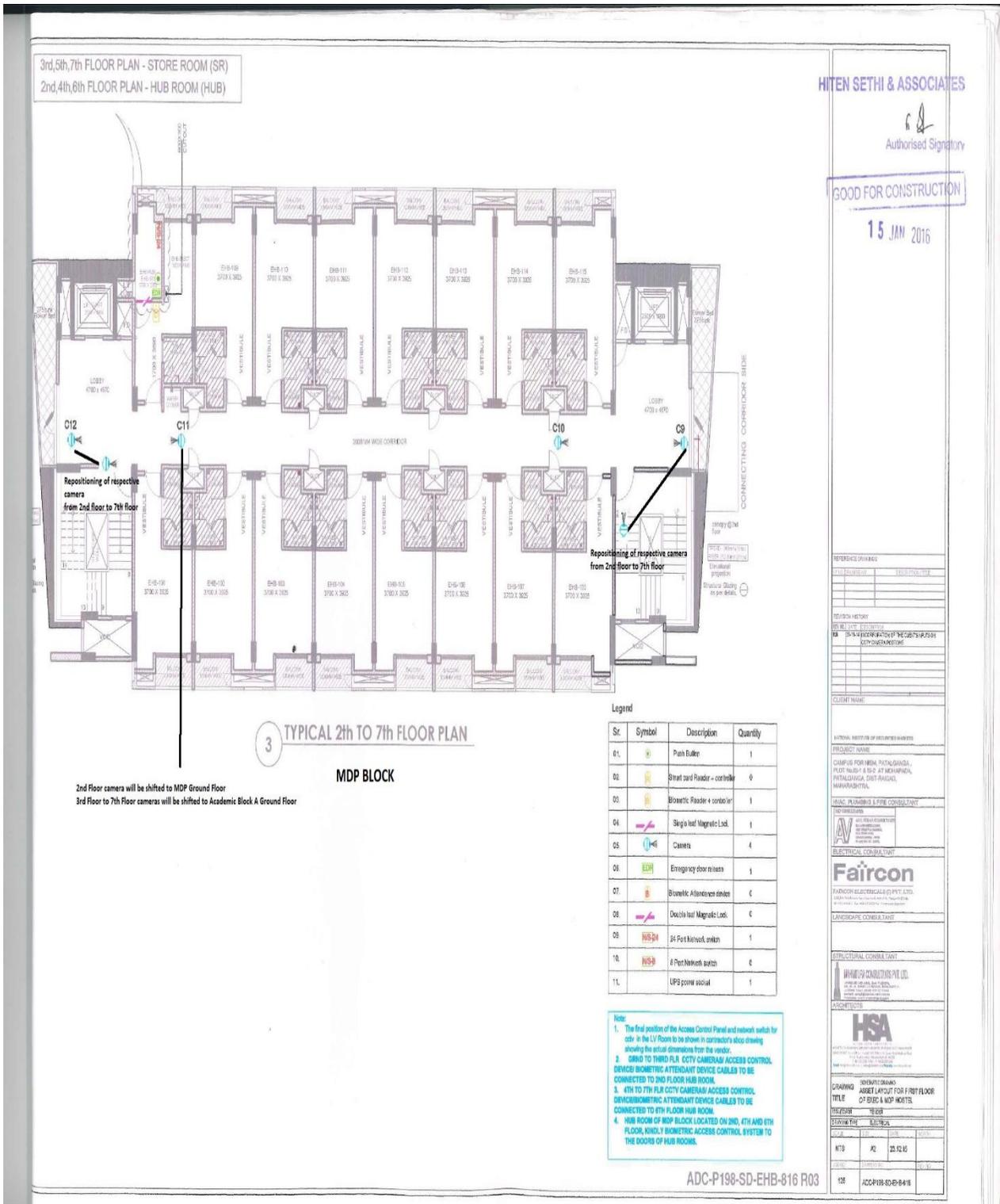


Figure: MDP.3

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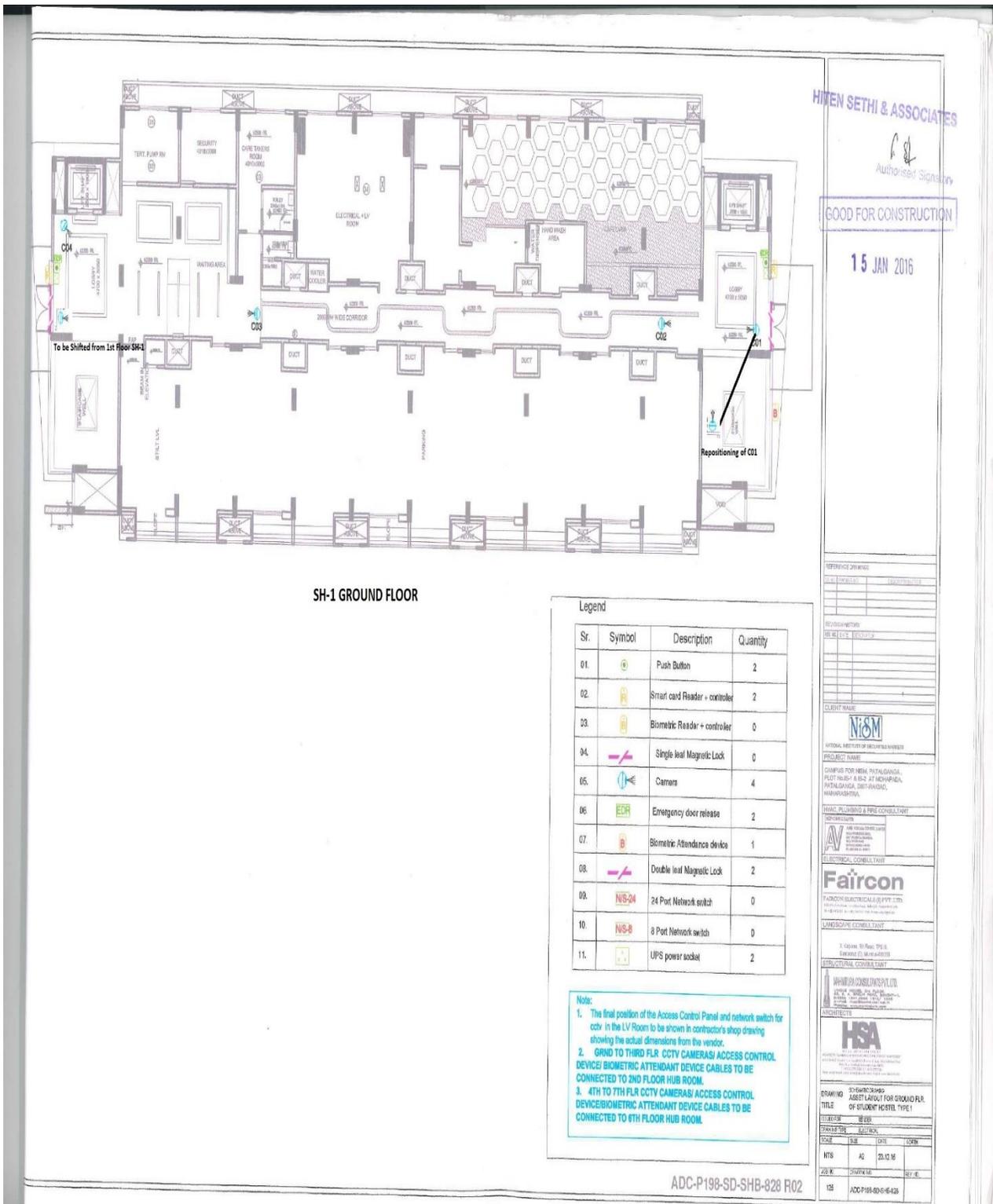


Fig: SH-1.1

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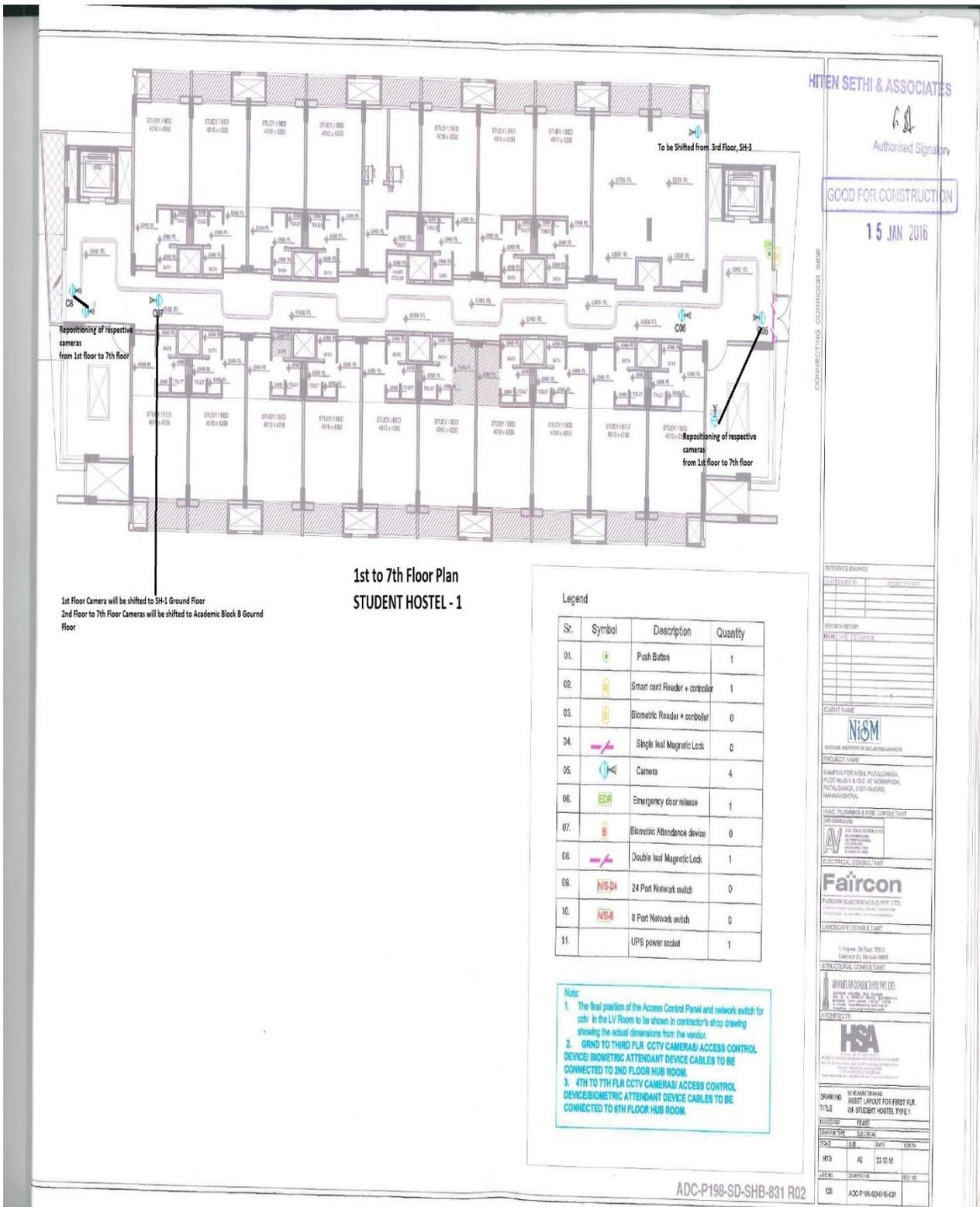


Fig: SH-1.2

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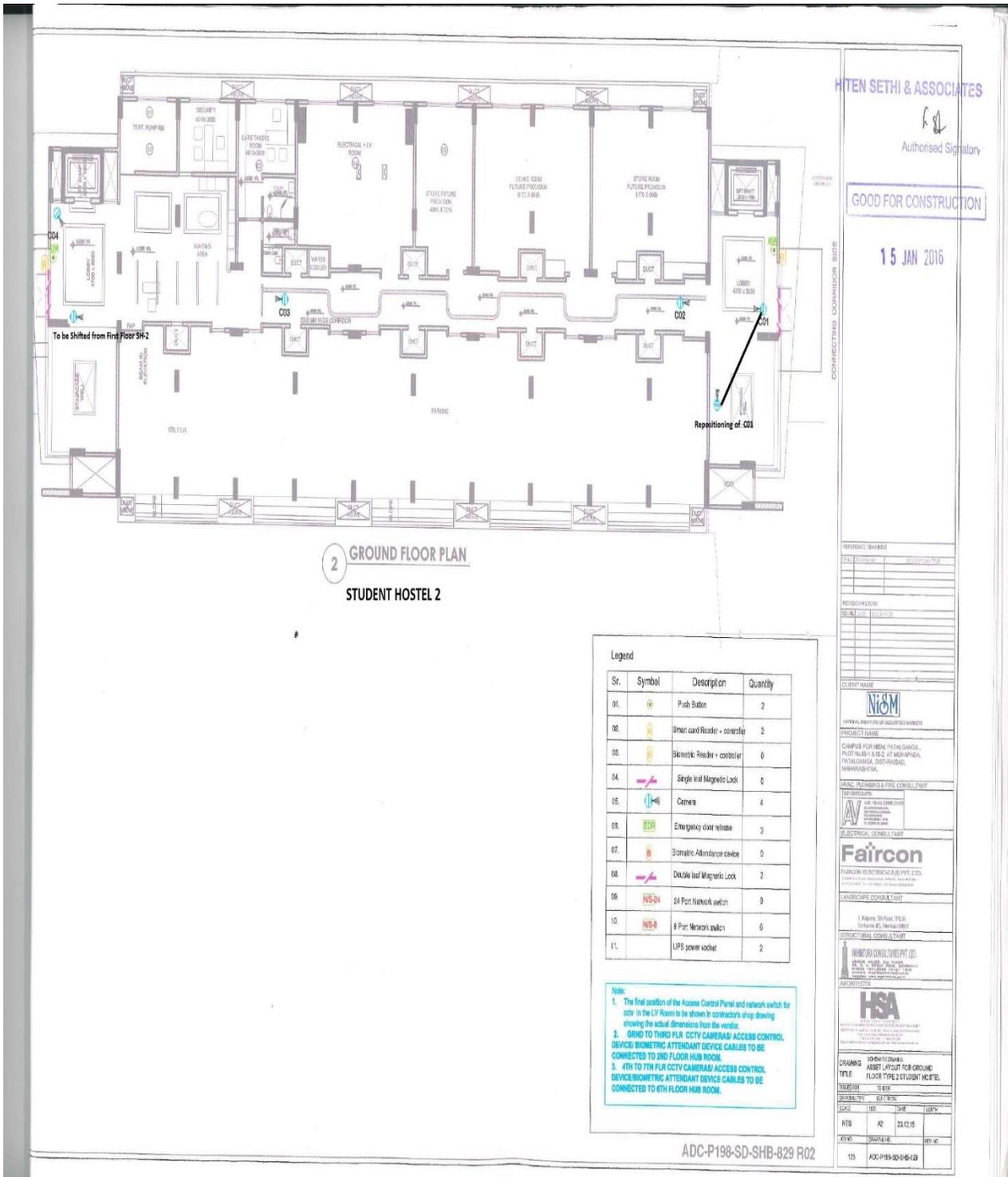


Fig: SH-2.1

**Request for proposal for Restructuring of CCTV Network at
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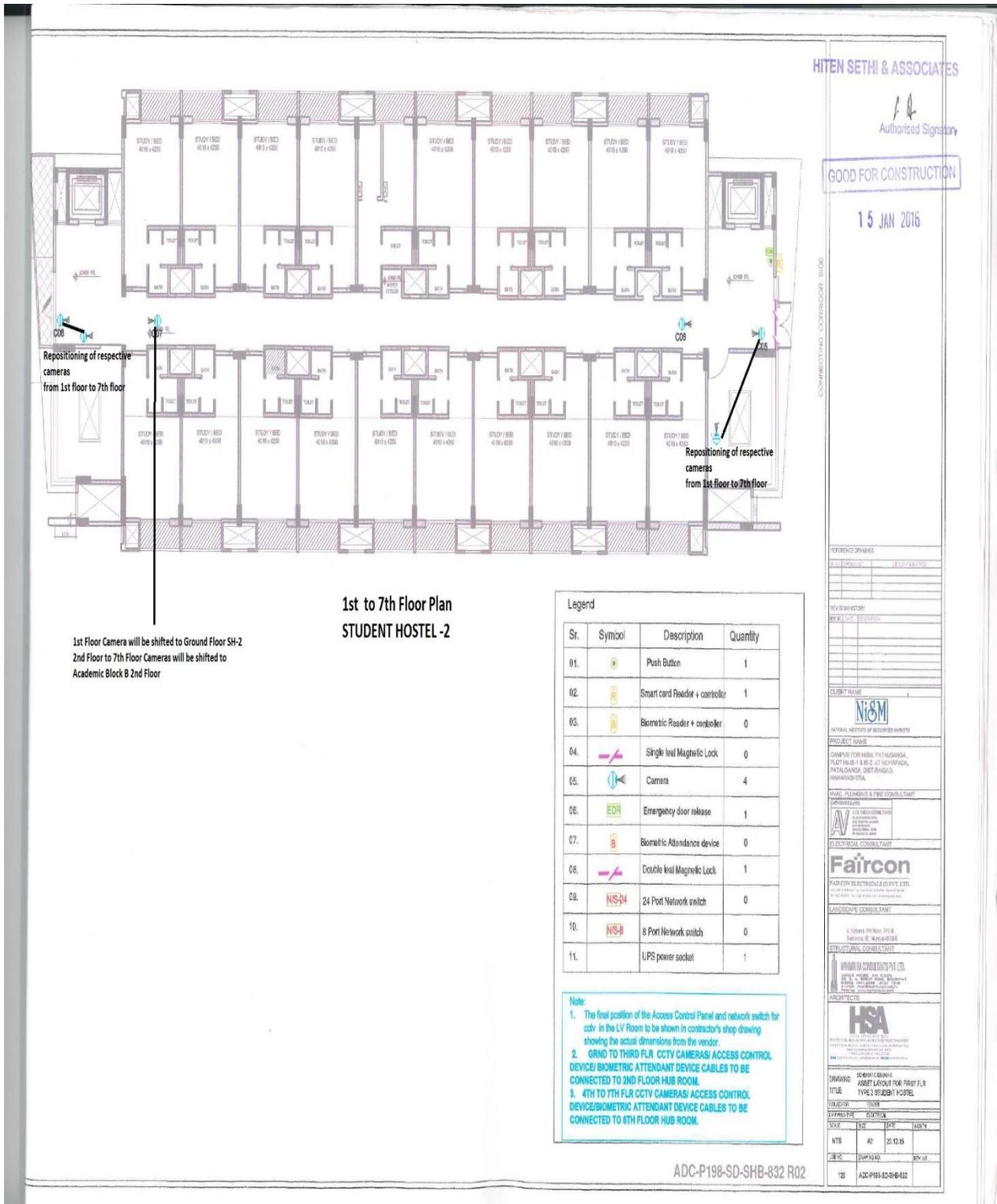


Fig: SH-2.2

**Request for proposal for Restructuring of CCTV Network at
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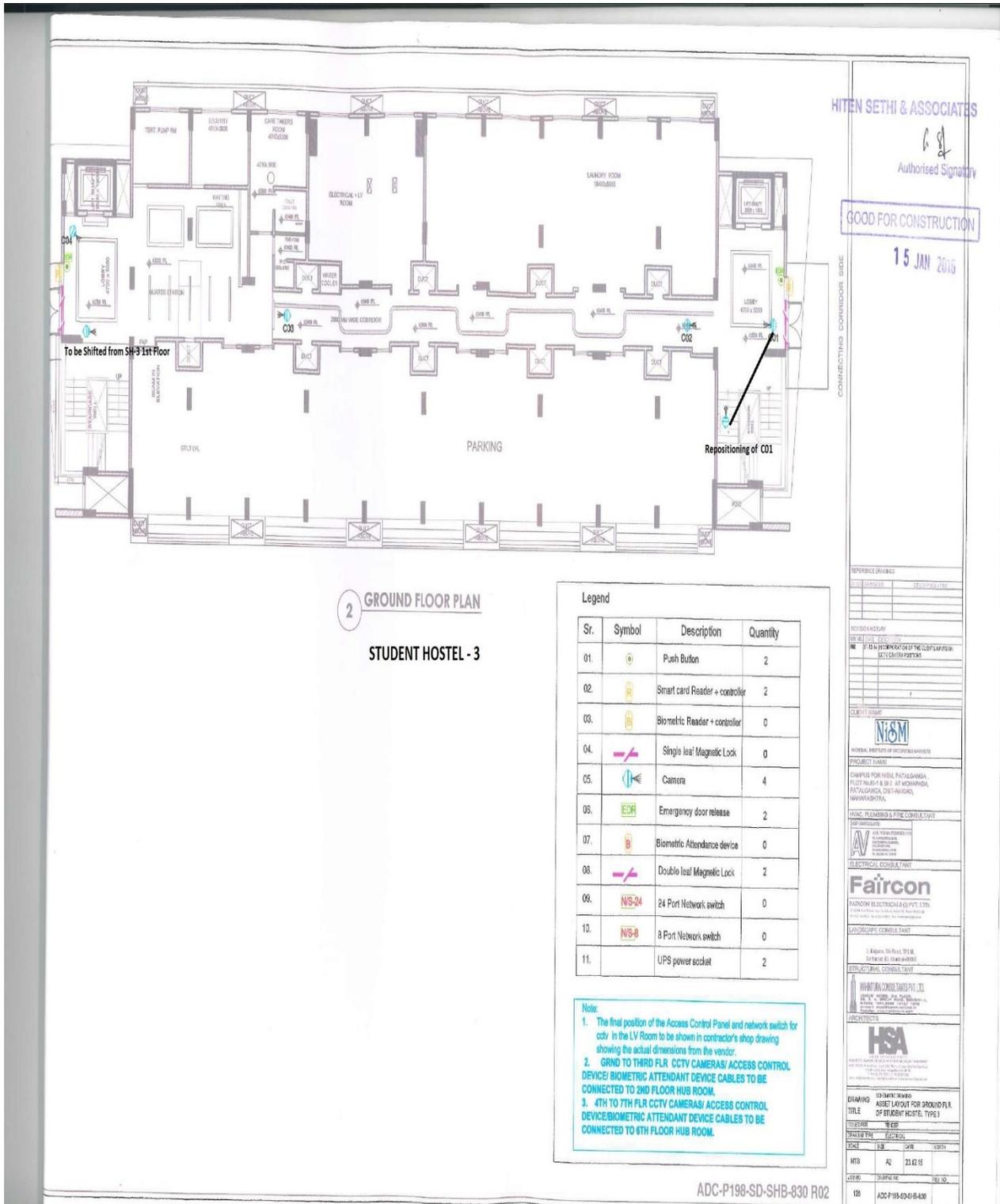


Fig: SH-3.1

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(Document Reference No: NISM/ICT/RFP/01/2019-20)**

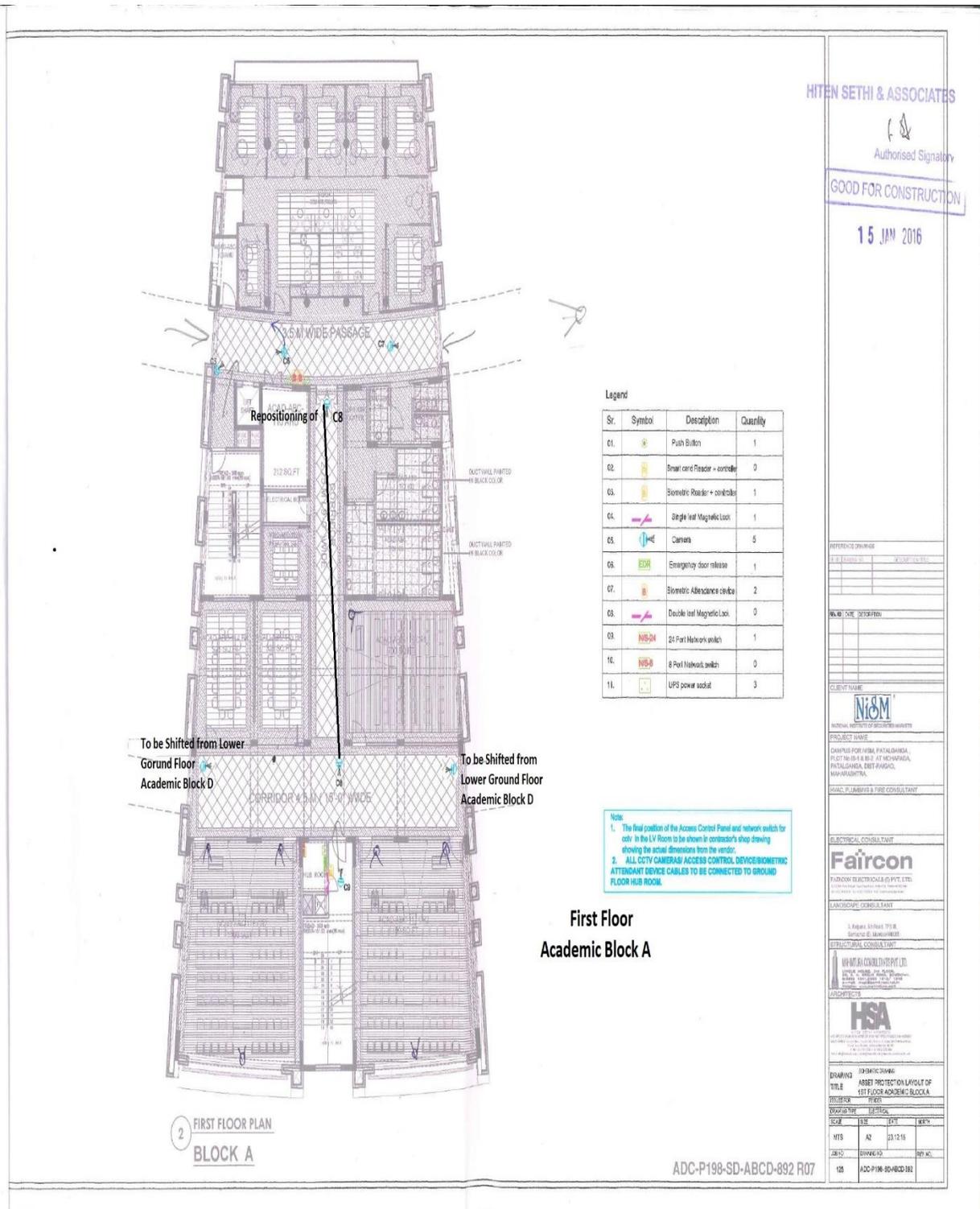
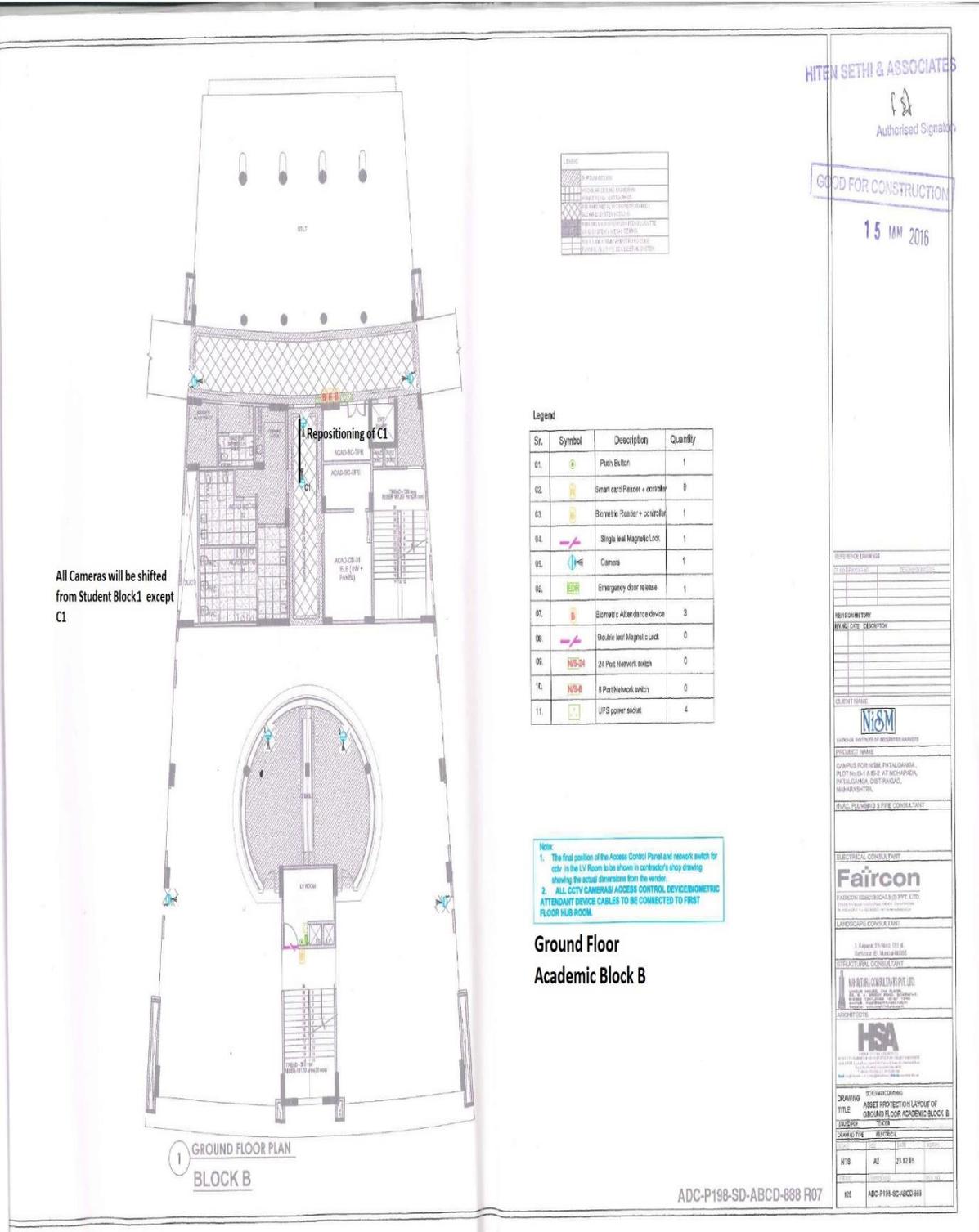


Fig: ACAD-A.2

**Request for proposal for Restructuring of CCTV Network at
NISM Campus, Patalganga
(Document Reference No: NISM/ICT/RFP/01/2019-20)**



HITEN SETHI & ASSOCIATES
f.s.
Authorised Signatory

GOOD FOR CONSTRUCTION

15 JAN 2016

REFERENCE DRAWING

REVISIONS

REVISIONS

CLIENT NAME

NISM
NATIONAL INSTITUTE OF MANAGEMENT

PROJECT NAME

CAMPUS FOR NISM PATALGANGA,
PLOT No. 82, A & B AT NICHARGUDA,
PATALGANGA DIST. RAJGIRI,
MAHARASHTRA.

SCALE: PLUMBING & FIRE CONSULTANT

ELECTRICAL CONSULTANT

Faircon
FAIRCON ELECTRICALS (P) PVT. LTD.
100/10, 10th Floor, Sector 17, Vashi, Mumbai-400 703.
M. 98200 98200

LANDSCAPE CONSULTANT

1. Rajendra, 17th Sector, 17th &
Sector 21, Vashi, Mumbai-400 703

MECHANICAL CONSULTANT

HSA
HSA ENGINEERING & CONSULTANCY PVT. LTD.
100/10, 10th Floor, Sector 17, Vashi, Mumbai-400 703.
M. 98200 98200

DRAWING TITLE

ASSET PROTECTION LAYOUT OF
GROUND FLOOR ACADEMIC BLOCK B

DATE

23.12.15

NO. 03 ADC-P198-SD-ABCD-888

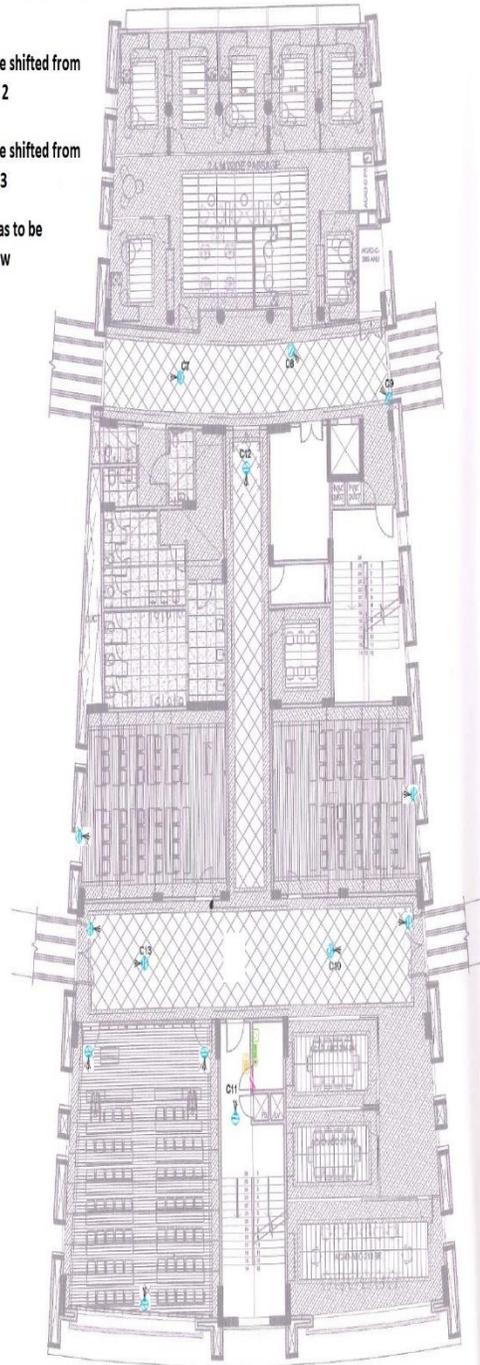
Fig: ACAD-B.1

**Request for proposal for Restructuring of CCTV Network at
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6 Cameras to be shifted from Student Hostel 2

2 Cameras to be shifted from Student Hostel 3

Rest of cameras to be installed as new



LEGEND	
[Symbol]	CONCRETE
[Symbol]	BRICK WALL (THICK WALL)
[Symbol]	BRICK WALL (THIN WALL)
[Symbol]	GLASS PARTITION
[Symbol]	WOODEN FLOORING
[Symbol]	WOODEN PARTITION
[Symbol]	WOODEN DOOR
[Symbol]	WOODEN WINDOW
[Symbol]	WOODEN BALCONY
[Symbol]	WOODEN STAIR

Legend

Sr.	Symbol	Description	Quantity
01.	[Symbol]	Push Button	1
02.	[Symbol]	Smart card Reader + controller	0
03.	[Symbol]	Biometric Reader + controller	1
04.	[Symbol]	Single Inlet Magnetic Lock	1
05.	[Symbol]	Camera	7
06.	[Symbol]	Emergency door release	1
07.	[Symbol]	Biometric Attendance device	0
08.	[Symbol]	Double Inlet Magnetic Lock	0
09.	[Symbol]	24 Port Network switch	0
10.	[Symbol]	8 Port Network switch	0
11.	[Symbol]	UPS power socket	1

Note:
1. The final position of the Access Control Panel and network switch for cctv in the LV Room to be shown in contractor's shop drawing showing the actual dimensions from the vendor.
2. ALL CCTV CAMERAS/ ACCESS CONTROL DEVICES/BIO-METRIC ATTENDANCE DEVICE CABLES TO BE CONNECTED TO FIRST FLOOR HUB ROOM.

Cameras not installed

3 SECOND FLOOR PLAN 'S'
BLOCK B

ADC-P198-SD-ABCD-897 R07

HITEN SETHI & ASSOCIATES

[Signature]
Authorised Signatory

GOOD FOR CONSTRUCTION

15 JAN 2016

REFERENCE DRAWING

Sr. No. / Rev. No. / Date / Description

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**Request for proposal for Restructuring of CCTV Network at
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Date: 17/04/2016

Fig: ACAD-D.1

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Fig: ACAD-D.3

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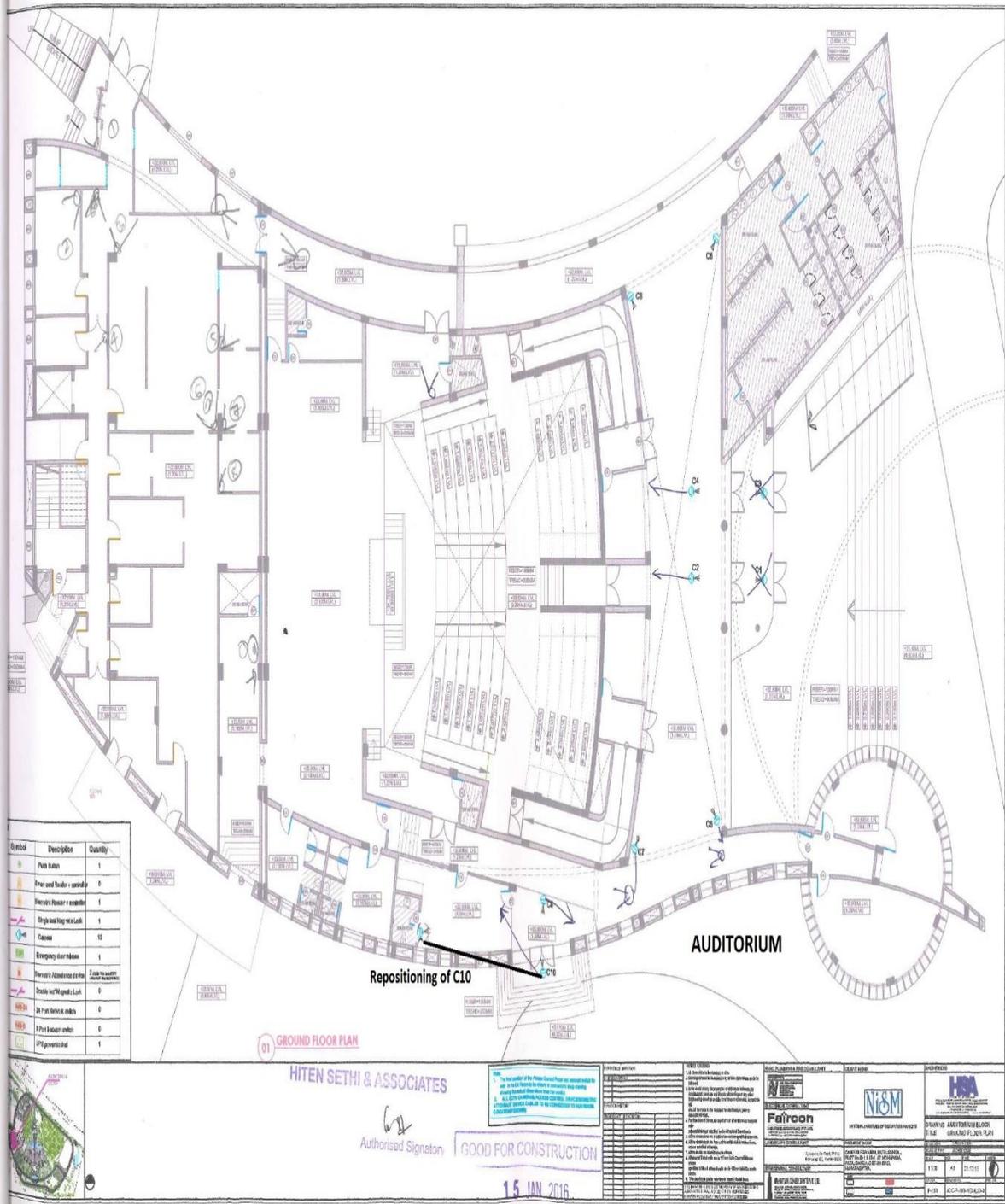


Fig: Audi.1

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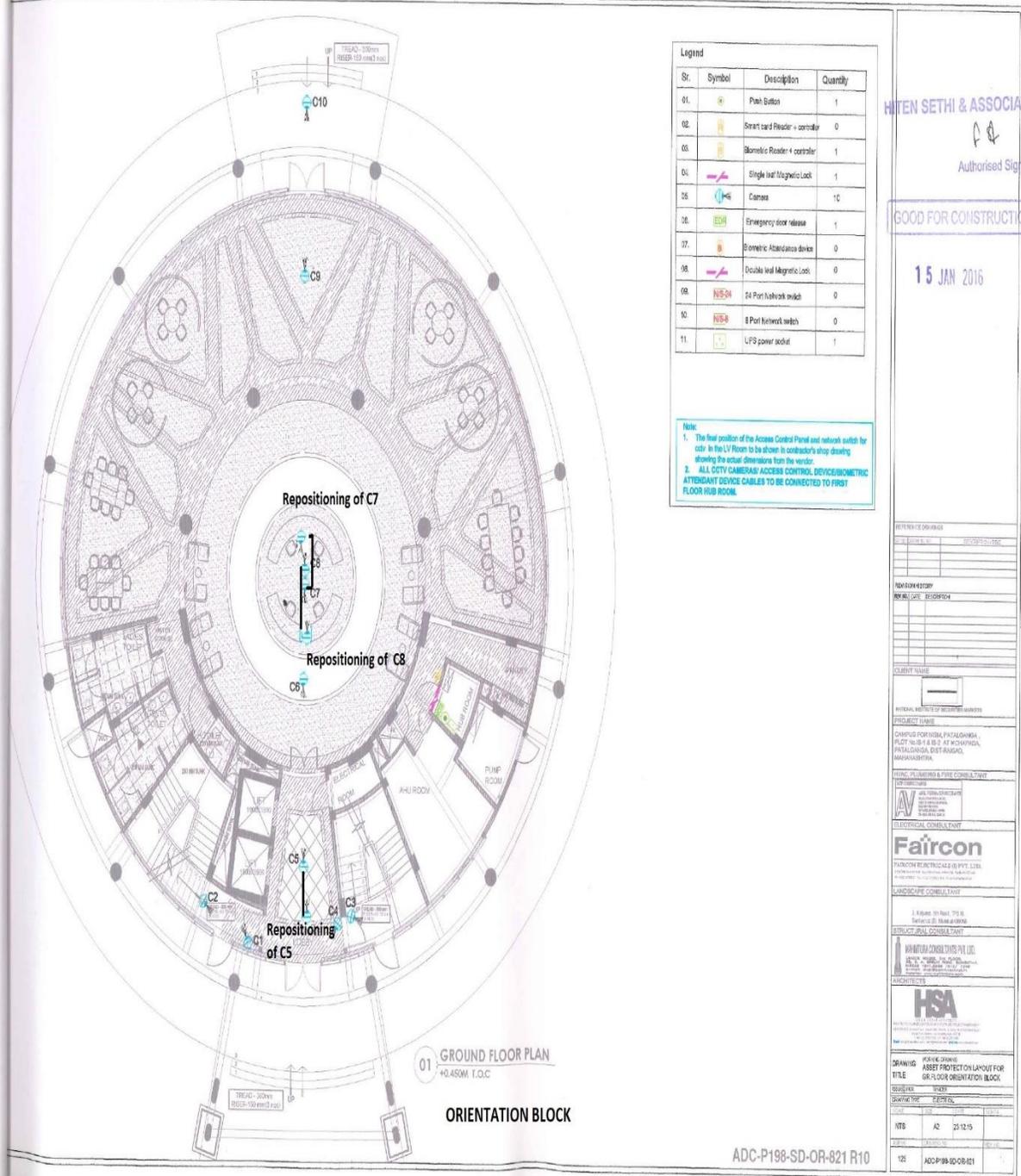


Fig: OB.1

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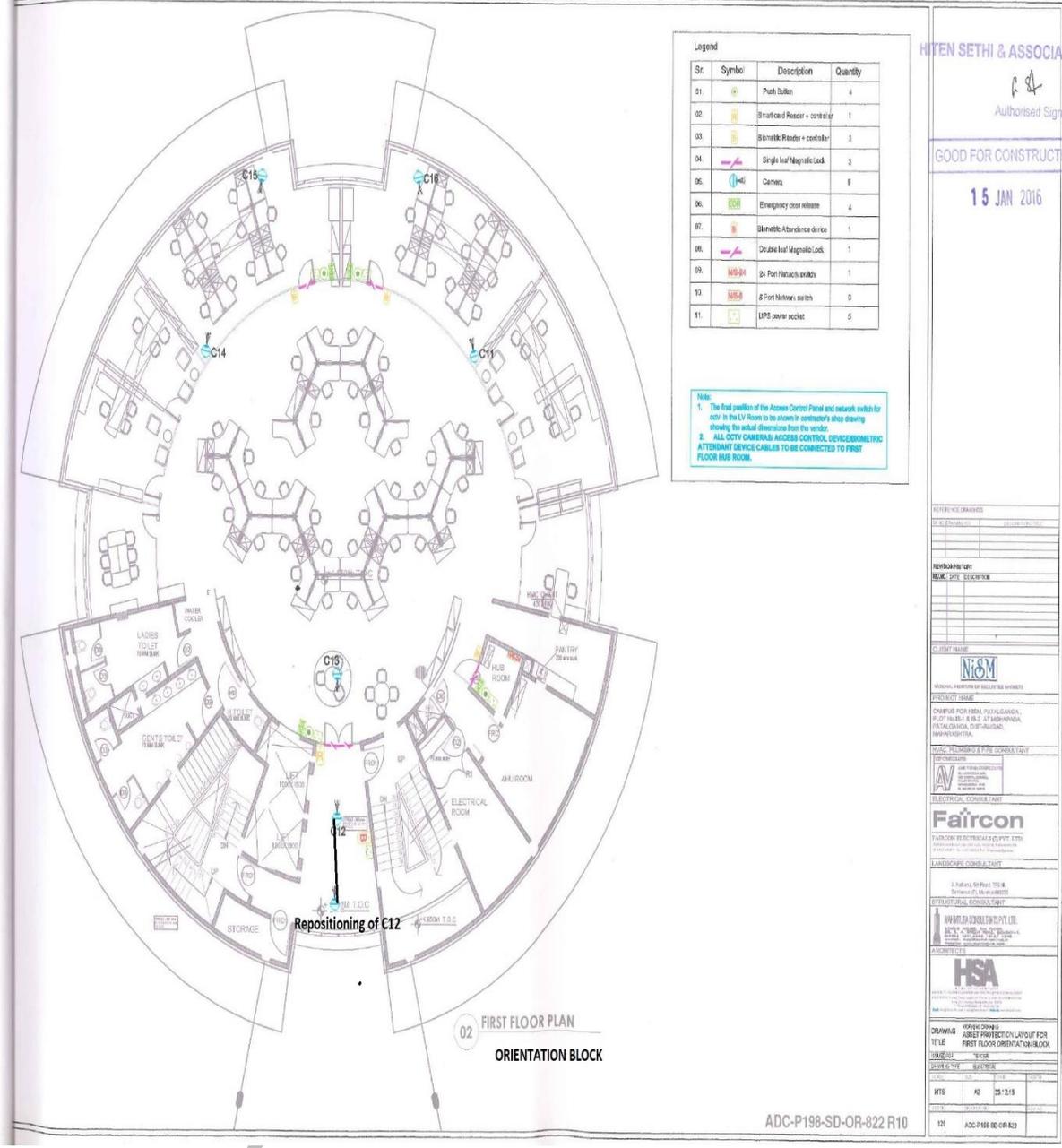


Fig: OB.2

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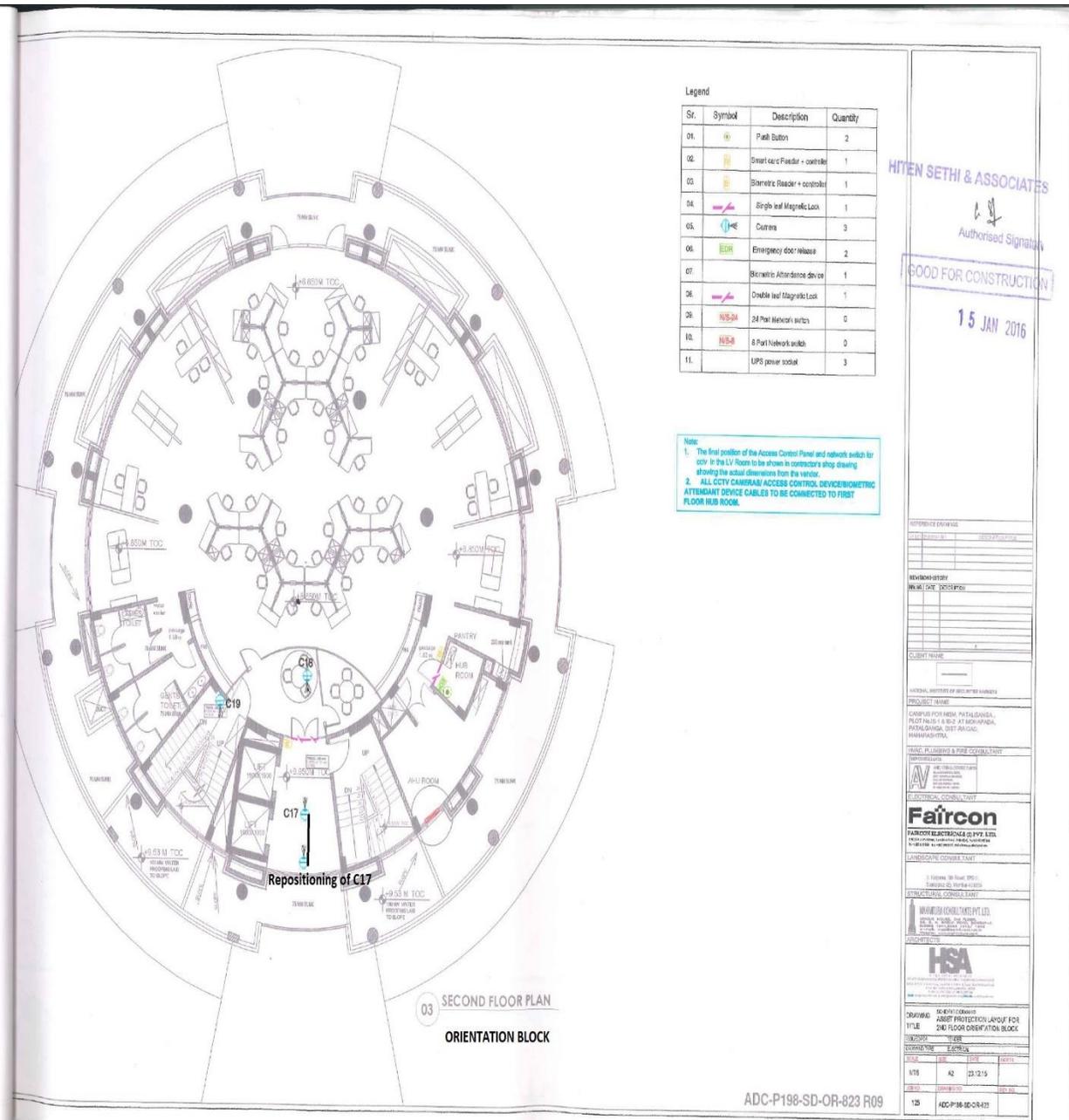


Fig: OB.3

Annexure H Bill of Quantities

H1. Estimation of Installation of Active Devices Building wise

#	Location	Number of Cameras
IP Based Fixed DOM Cameras with Ceiling Mount Bracket (kit)		
1	Second Floor, Academic Block B	2
2	Ground Floor, Academic Block D	5
3	First Floor, Academic Block D	2
4	First Floor, Library Block	10
5	Recreation Block	6
6	Sewage Treatment Plant (STP)	1
7	Utility Sitting Area	1
Total		27
Vandal Proof Network (IP) based Varifocal Dome Cameras with Ceiling Mount Bracket (kit)		
1	Second Floor, Academic Block B	4
Network (IP) based Lite Bullet Cameras with Wall Mount Bracket (kit)		
1	Rear Gate	4
2	AC Plant, Utility Block	1
3	Electrical Area, Utility Block	2
4	Pump House	1
5	Parking Area, Lower Ground, D Block	1
Total		9
Network (IP) based Heavy (PRO) Bullet Cameras with Pole Mount Bracket (kit)		
1	Near Security Front Gate	3
2	Near Security Back Gate	3
3	Near AC Plant,	3
4	STP	3
5	Near SEBI Data Center, Library	2
6	Near Front Side A Block	1
7	Near Front Side D Block	1
Total		16
Network (IP) based Heavy (PRO) Bullet Cameras with Wall Mount Bracket (kit)		
8	Back Side Corridor, Ground Floor, SH-2	1
9	Back Side Corridor, Ground Floor, MDP	1
10	Back Side Corridor, First Floor, SH-2	1
11	Back Side Corridor, First Floor, MDP	1
12	Ground Floor, Dining area corridor	1

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13	First Floor, Dining area corridor	1
14	Ground Floor, corridor between A Block and Dining	1
15	First Floor, corridor between A Block and Dining	1
16	Parking Area, Lower Ground, D Block	1
Total		9
Network (IP) based PTZ Camera with Roof Mount Bracket (kit) and 3 feet Mast		
1	Top of Utility Block	1
24 Port Rack Mounted POE Switch without SFP Port		
1	Academic Block B - First Floor	1
2	Academic Block D - First Floor	1
3	Library Ground Floor	1
Total		3
16 Port Rack Mounted POE Switch without SFP Port		
1	Security Front Gate	1
2	AC Plant, Utility Block	1
3	STP	1
Total		3
16 Port Rack Mounted POE Switch with SFP loaded Port		
1	Security Rear Gate	1
Total		1
Point to Point Outdoor Access Point		
1	Top of the Academic Block D	1
2	Top of the STP	1
Total		2

H2. Estimation- Passive Items building wise

#	Location	Number of Items
3 Meter Pole		
1	Near Security Front Gate	1
2	Near Security Back Gate	1
3	Near AC Plant, Utility Block	1
4	Near Library	1
5	Near STP	1
6	Near Academic Block A	1
7	Near Academic Block D	1
Total		7
6 Feet Pole for Outdoor Access Point (OAP)		
1	Top of the Academic Block D	1

2	Top of the STP	1
Total		2
Wall mounted Network Rack 6 U		
1	STP	1
2	AC Plant, Utility Block	1
3	Security Rear Gate	1
Total		3

H3. Armoured Cat-6 Cable Quantity estimation

#	Building	Quantity (in Meter Approx.)
1	Academic Block A	535
2	Academic Block B	335
3	Academic Block D	460
4	Orientation Block	55
5	MDP	705
6	Student Hostel 1	575
7	Student Hostel 2	695
8	Student Hostel 3	775
9	Auditorium	50
10	Library	450
11	Security Rear Gate	200
12	Security Front Gate	150
13	Recreation	240
14	STP	70
15	Utility Block	495
16	Dining	100
Total Cable Length (In Meter Approx.)		5900

H4. PVC Conduit (25mm) estimation

#	Building	Quantity (in Meter Approx.)
1	Academic Block A	30
2	Academic Block B	10
3	Academic Block D	20
4	MDP	10
5	Student Hostel 3	15
6	Library	10

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7	Security Rear Gate	15
8	STP	30
9	Utility Block	100
10	Dining	20
Total Cable Length (In Meter Approx.)		260

H5. DWC Pipe (50mm) estimation

#	Building	Quantity (in Meter Approx.)
1	Academic Block A	25
2	Academic Block D	5
3	Student Hostel 3	20
4	Security Rear Gate	5
5	Security Front Gate	5
6	Utility Block	140
Total Cable Length (In Meter Approx.)		200

ANNEXURE - I

Laying of Armoured CAT6 Cable

I.1 Laying of CAT6 Cable between CCTV Camera and Switch

#	To Location	From Location	No. of Cable per Camera	No. of Camera
MDP				
1	2 nd Floor Switch Room	Ground Floor	3	3
2	2 nd Floor Switch Room	First Floor	3	3
3	2 nd Floor Switch Room	Second Floor	2	2
4	2 nd Floor Switch Room	Third Floor	2	2
5	4 th Floor Switch Room	Fourth Floor	2	2
6	5 th Floor Switch Room	Fifth Floor	2	2
7	6 th Floor Switch Room	Sixth Floor	2	2
8	7 th Floor Switch Room	Seventh Floor	2	2
Student Hostel-1				
1	2 nd Floor Switch Room	Ground Floor	2	2
2	2 nd Floor Switch Room	First Floor	3	3
3	2 nd Floor Switch Room	Second Floor	2	2
4	2 nd Floor Switch Room	Third Floor	2	2
5	4 th Floor Switch Room	Fourth Floor	2	2
6	5 th Floor Switch Room	Fifth Floor	2	2
7	6 th Floor Switch Room	Sixth Floor	2	2
8	7 th Floor Switch Room	Seventh Floor	2	2
Student Hostel-2				
1	2 nd Floor Switch Room	Ground Floor	3	3
2	2 nd Floor Switch Room	First Floor	3	3
3	2 nd Floor Switch Room	Second Floor	2	2
4	2 nd Floor Switch Room	Third Floor	2	2
5	4 th Floor Switch Room	Fourth Floor	2	2
6	5 th Floor Switch Room	Fifth Floor	2	2
7	6 th Floor Switch Room	Sixth Floor	2	2
8	7 th Floor Switch Room	Seventh Floor	2	2
Student Hostel-3				
1	2 nd Floor Switch Room	Ground Floor	4	4
2	2 nd Floor Switch Room	First Floor	3	3
3	2 nd Floor Switch Room	Second Floor	2	2

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4	2 nd Floor Switch Room	Third Floor	2	2
5	4 th Floor Switch Room	Fourth Floor	2	2
6	5 th Floor Switch Room	Fifth Floor	2	2
7	6 th Floor Switch Room	Sixth Floor	2	2
8	7 th Floor Switch Room	Seventh Floor	2	2
Academic Block A				
1	1 st Floor Switch Room	Ground Floor	6	6
2	1 st Floor Switch Room	First Floor	3	3
3	1 st Floor Switch Room	Second Floor	1	1
Academic Block B				
1	1 st Floor Switch Room	Ground Floor	7	7
2	1 st Floor Switch Room	First Floor	3	3
3	1 st Floor Switch Room	Second Floor	14	14
Academic Block D				
1	1 st Floor Switch Room	Lower Ground Floor	2	2
2	1 st Floor Switch Room	Ground Floor	7	7
3	1 st Floor Switch Room	First Floor	3	3
Orientation Block				
1	1 st Floor Switch Room	Ground Floor	1	1
2	1 st Floor Switch Room	First Floor	1	1
3	1 st Floor Switch Room	Second Floor	1	1
Auditorium				
1	1 st Floor Switch Room	Ground Floor, VIP Entry	1	1
Library				
1	Ground Floor Switch Room	First Floor	10	10
Security Rear Gate				
1	Switch Rack	Rear Gate 1	3	3
2	Switch Rack	Rear Gate 2	1	1
3	Switch Rack	CCTV Pole	3	3
Security Front Gate				
1	Switch Rack	CCTV Pole	3	3
Utility Block				
1	Switch Room	Utility Sitting Area	1	1
2	Switch Room	Transformer Area	1	1
3	Switch Room	Electrical Area	1	1
STP				
1	Switch Rack	CCTV Pole	3	3
AC Chiller Plant				

Request for proposal for Restructuring of CCTV Network at
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1	Switch Rack	CCTV Pole	3	3
2	Switch Rack	PTZ Camera, AC Chiller Plant Roof	1	1

I.2 Laying of CAT6 Cable between Switch to Other Active Equipment

#	To Location	From Location	No. of Cable
Academic Block, D			
1	1 st Floor Switch Room	OAP, Roof, Academic Block, D	1
STP			
1	1 st Floor Switch Rack	OAP, Roof, STP	1
Utility Block			
1	Switch Room	Switch Rack, AC Chiller Plant	1

ANNEXURE - J Reference Images

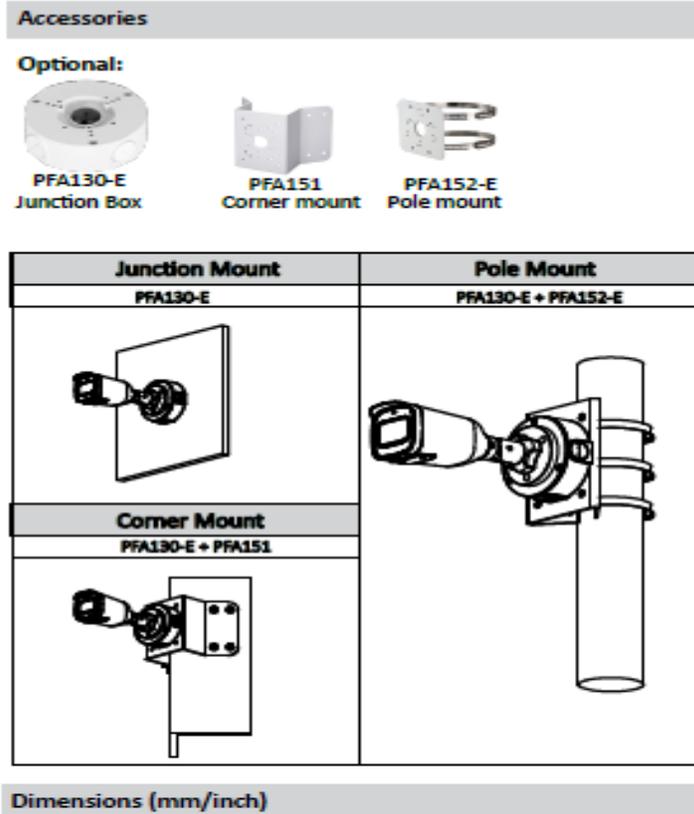
J.1 Ceiling Mounted Fix Dom and Varifocal Dom CCTV Cameras



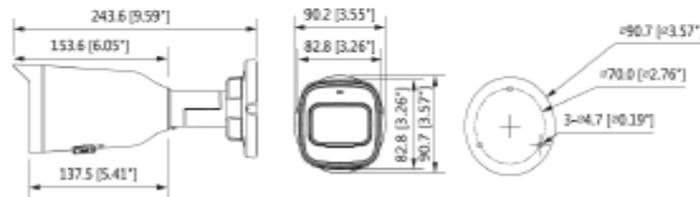
J.2 Wall Mounted Bullet CCTV Cameras



J.3 Installation of Wall (Junction) Mounted Lite Bullet CCTV Cameras on the Wall



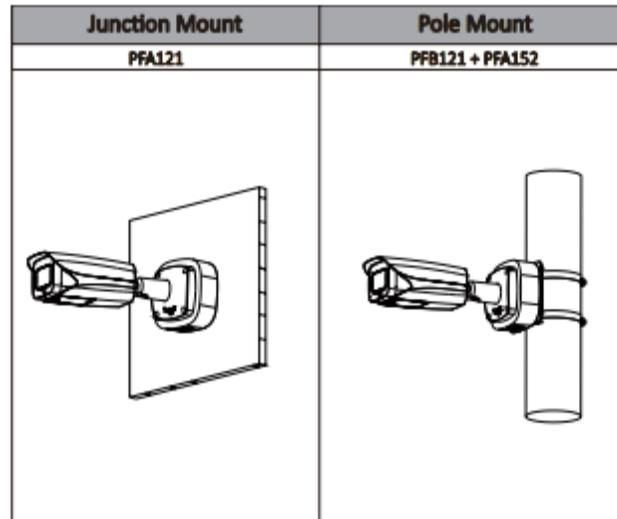
Dimensions (mm/inch)



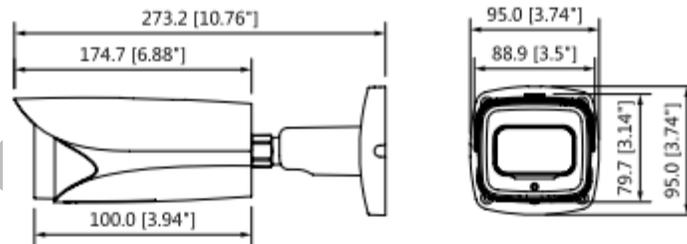
J.4 Pole Mounted Bullet CCTV Cameras



J.5 Installation of Heavy (PRO) Bullet CCTV Cameras On Wall (Junction) / Pole



Dimensions (mm/inch)



PFA121
Junction box

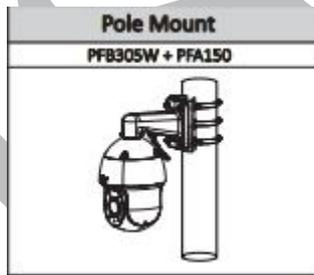


PFA152-E
Pole Mount

J.6 Roof Mounted PTZ CCTV Cameras



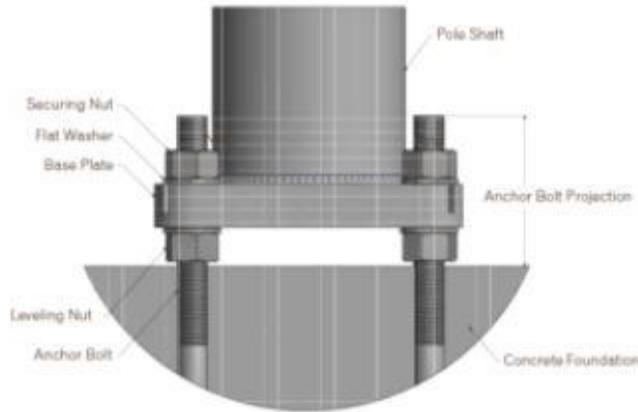
J.7 Installation of Cameras into Pole over roof



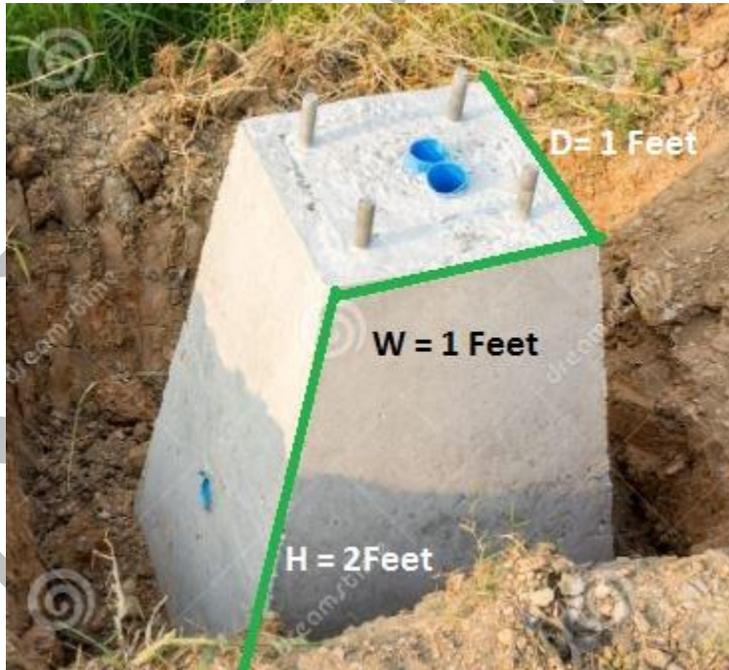
J8.1 Installation of Pole



J8.2 Installation of Pole



J8.3 Installation of Pole



J.6 Fill the hole by Gypsum / PoP after removal of CCTV Cameras



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ANNEXURE-K

DSS Server Configuration

- **Make & Model:** Dahua DSS 7016DR
- **Main Processor:** Intel Core i5 64-bit processor
- **Motherboard:** Embedded Board
- **RAM:** 8GB DDR3
- **Storage:** 64 TB
- **Operating System:** Embedded Linux
- **Network Port:** 4 RJ-45 Port
- **USB:** 4 Ports
- **HDMI:** 2 Ports
- **VGA:** 1 Port
- **Number of Supported Cameras:** 500 IP Cameras and 2000 channels