



V. M. No. 1706 /2018

28 August 2018

**NOTICE INVITING TENDER**

**Subject: Supply and installation of Closed Circuit Television (CCTV) Cameras at the Victoria Memorial Hall, Kolkata.**

The Victoria Memorial Hall (VMH), Kolkata (herein after referred to as VMH) invites quotation from authorised dealers/contractors, reputed, experienced and financially sound companies/firms ("The Vendor") for supply, installation, commissioning of Closed Circuit Television (CCTV) Camera System and other accessories at the VMH. The Cameras will be installed at three gates of VMH Campus.

2. The representatives of interested vendors should visit the site with prior appointment and submit their proposals/ rate quotations along with complete layout plan.

3. A brief terms & conditions, scope of work, technical specification and proforma for submission of quotations are enclosed. The vendor shall sign on every page of the document and submit their quotation, complete in all respect in the Tender Box placed in the New Administrative Block, VMH. The tender documents can be downloaded from the website of VMH [www.victoriameorial-cal.org](http://www.victoriameorial-cal.org)

4. The right of acceptance of tender(s) will rest with the Competent Authority of VMH. The VMH authority reserves the right to reject all the tender(s) received without assigning any reasons thereof.

5. Important dates are as below:

Last date of submission of Quotation : 2:00 PM on 12.09.2018  
Date of opening of Quotation : 3:00 PM on 12.09.2018.

The Technical Bids (Annexure I) will first be evaluated and result will be displayed in the VMH official website within 19.09.2018. Only vendors who qualified in the Technical Bids will be considered for further evaluation of Financial Bids (Annexure II).

Administrative Officer

Copy to:-

- 1) Accounts Officer, VMH
- 2) Security Officer, VMH
- 3) Office Superintendent, VMH
- 4) Shri Dipankar Samanta to upload the NIQ in the VMH website

## **GENERAL POINTS**

### **1.0 GENERAL**

1.1 The CCTV system shall be used to monitor and record the data of the visitors coming from entry Gate of The Victoria Memorial Hall (VMH), Kolkata. The vendor shall study the specifications and satisfy himself thoroughly and shall take full responsibility of the smooth, reliable and safe working. The representative of the vendor should visit the VMH prior to placing its bids for satisfying himself for supply of requisite items essential for smooth functioning of the system. Site can be inspected between 10 AM to 5 PM on working days till 11.09.2018.

1.2 All items of instrument shall be completed in all respects and any instrument not covered in the specification but essential for proper installation, operation and maintenance of the instrument shall be included by the vendor in his offer and the reasons for such inclusion shall be clearly stated.

### **2.0 SCOPE OF WORK**

2.1 The scope of work includes supply, installation and commissioning of CCTV System in accordance with the design & specifications given in "Annexure I Technical Bid A. TECHNICAL SPECIFICATIONS OF THE SECURITY SURVEILLANCE SYSTEM". In addition, the vendor will also undertake the maintenance of the complete system.

2.2 Supply of necessary spares.

2.3 Packaging, forwarding, transport, insurance, loading, unloading, precaution against damage during transit etc.

2.4 Performance Guarantee.

2.5 Test Certificate: Vendor shall provide all necessary test certificates.

### **3.0 SAFETY**

3.1 All equipment items shall be completed with approved safety devices, wherever a potential hazard to personnel exists, and with provision for safe access to personnel to and around the instrument for operational and maintenance functions.

### **4.0 TIME FOR COMPLETION**

4.1 The vendor shall complete supply, installation and commissioning of the instrument within 40 days of placing the Purchase Order.

### **5.0 TEST AND INSPECTION**

5.1 Inspection of the equipment will be done at the VMH.

5.2 The vendor shall demonstrate all the features of the equipment mentioned in the technical specification.

5.3 The vendor is solely responsible for installation, commissioning and making the complete system operational at VMH's site.

## **6.0 OPERATION CONDITIONS**

6.1 All equipment shall be designed for smooth, efficient and trouble free operation in tropical humid climate of 45° C ambient and a humidity of 90% to 150%.

6.2 In cases where the offer deviates from the specification, the vendor shall indicate clearly in his offer the specification proposed by him along with details thereof and the reasons for the deviation. Each exception to the specification or other parts of the tender document shall be listed separately by the vendor. If exceptions are not clearly listed they will not be considered by the VMH later.

## **7.0 DOCUMENTS**

7.1 The vendor shall supply the hard and soft copy of Operation and Maintenance manual in duplicate. All necessary literature giving complete technical details shall be provided. He should also provide the test certificates given by manufacturer.

7.2 The vendor shall provide the original DVD/CD of all the software used for operating the system.

## **8.0 INSTALLATION & COMMISSIONING**

8.1 It is to be noted again that supply, installation and commissioning of the system with all accessories, auxiliaries, and any item not covered in the specification but essential for proper installation, operation and maintenance of the CCTV System shall be included and executed by the vendor.

8.2 The supply will not be deemed complete until the commissioning trial of the whole system is carried out by the vendor at VMH successfully.

## **9.0 PERFORMANCE GUARANTEE (P. G.)**

9.1 All necessary tests shall be carried out at VMH by the vendor to demonstrate whether performance of the instrument conforms to the relevant standards and specifications and meets the functional requirement indicated in the specification.

9.2 Earnest Money Deposit (EMD), 2% of the quoted value in Demand Draft on any Commercial Bank drawn in favour of "Victoria Memorial Hall" should be submitted with the tender / quotation. The successful bidder will have to deposit Performance Security of 5% of the value of contract in the same manner as in case of deposit of EMD to obtain the purchase order in this regard. EMD is returnable to unsuccessful bidder before 30<sup>th</sup> day after the award of the contract. Performance Security will be released after sixty days beyond the date of completion of all contractual obligations of the supplier including warranty obligations

## **10.0 WARRANTY**

10.1 The warranty period for the equipment will commence from the date of commissioning of the entire system and not from the date of delivery or installation.

10.2 The vendor shall provide guarantee for the entire system for a period not less than 2 years from the date of commissioning or for the duration of OEM warranty period whichever is longer.

10.3 If the equipment installed at one location is subsequently shifted to another location, the warranty services shall continue to be provided at new location without any additional financial implications. Undertaking that during warranty period, if any defect in the supplied equipment is noticed by the Purchaser, the supplier or his representative shall rectify the defect or replace the defective item free of cost at the Purchaser's site at the earliest possible, latest within a period of 30 days of notification.

10.4 The vendor shall be responsible for routine and breakdown maintenance of the equipment during warranty period.

10.5 It is desired that the successful bidder will enter into an Annual Maintenance Contract (AMC) for a period of 3 years, commencing after the expiry of the initial service warranty, for maintaining the installed system.

### **11.0 RATES**

11.1 Rates should be inclusive of all taxes & charges.

### **12.0 PAYMENT TERMS**

12.1 The payment will be released only after receipt, satisfactory installation/commissioning of the equipment in question and in good condition in the VMH.

### **13.0 CAPABILITY AND EXPERIENCE**

13.1 The vendor shall have executed at least two (2) similar kind of work within last 3 years. The vendor shall submit along with the offer the reference list of the similar work. Offers received without the reference list may be rejected.

### **14.0 TRAINING**

14.1 Vendor shall provide necessary onsite training at VMH about the working of CCTV System and the relevant software.

### **15.0 CLARIFICATIONS**

15.1 For any clarification and appointment for site visit, the vendor may contact the Security Officer, VMH, in Tel. No. 9830018326

## **Eligibility Criteria for Tenderer:-**

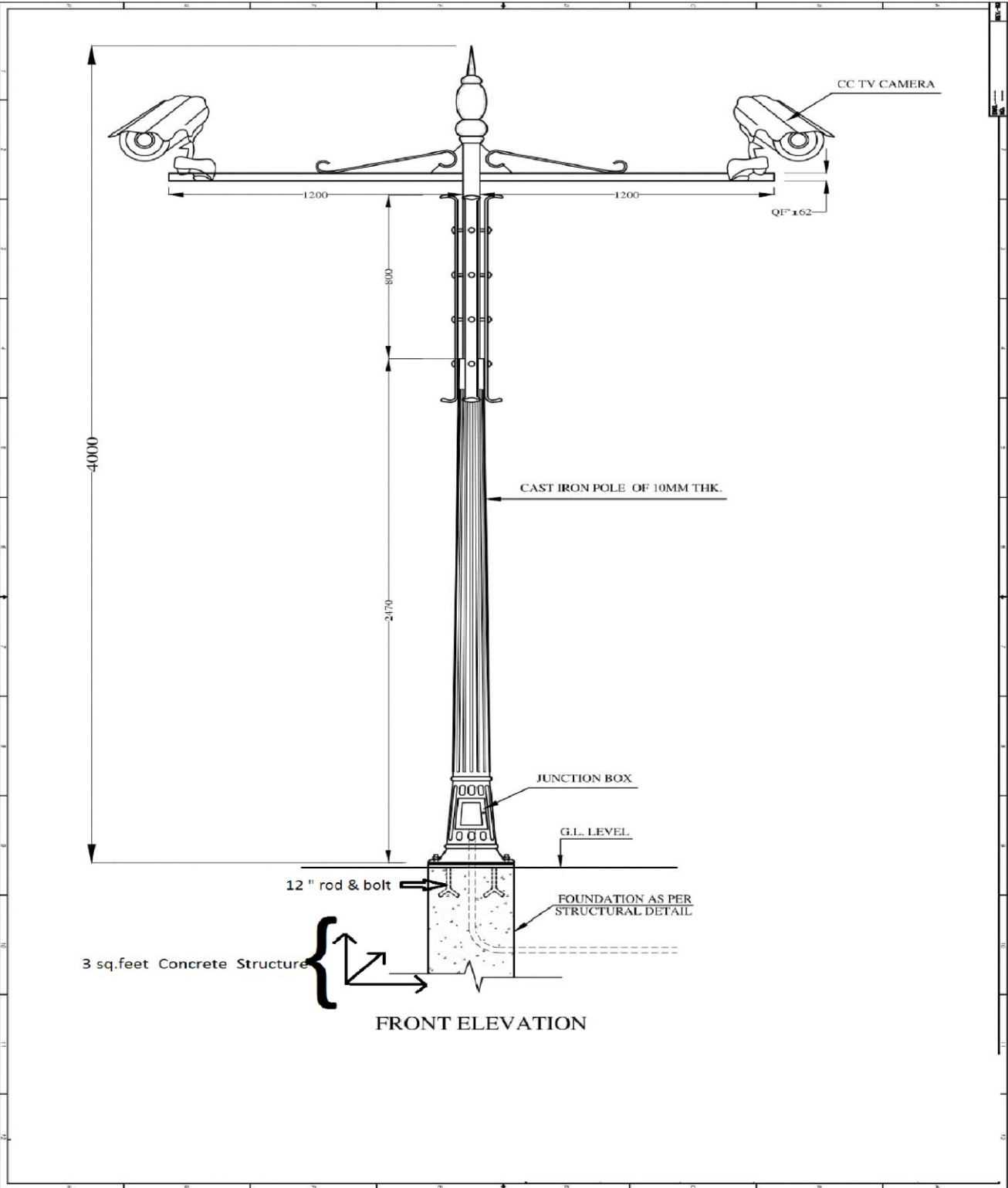
- 1) **Adequate support service facility:** The bidder and manufacturer OEM should have adequate service support centre in Kolkata for any emergency breakdown/fault offering facility within 24 working hours and should be agreeable to provide AMC facility after the warranty period. Further, bidder should have enough infrastructure as well as qualified personnel to maintain the highly sophisticated equipment as mentioned. ISO certificate (if any) should be enclosed with the tender documents.
- 2) **MAF:** The name and complete address of the OEM in India who must authorize the bidder, & Bidder to provide the authority letter along with other relative documents submitted. The appointed authorized service provider should be holding a valid certificate from the manufacturer to this effect. The bidder should have experience with Electronic Security System. The system integrator (SI) along with OEM authorization and Inspection Report should be submitted by the Bidders. Inspection should be done by **OEM**, and OEM Inspection report for **Camera, Fiber Optic Cable, Monitor and Cast Iron Pole** should be submitted by bidder.
- 3) Bidder must be ISO certified.
- 4) OEM and Bidder both should have **registered office in Kolkata** and enough team for support within **24hrs**. The bidder must be **registered / incorporated under Indian Companies Act, 1956 or other relevant act/ Rules** and should have a base in Kolkata and West Bengal and operated for **3 financial Years** or more.
- 5) The bidder shall provide address and phone number of their registered office in Kolkata along with Trade license. The bidder must possess a valid **PAN** issued by **Income Tax Authority in India**, and having GST registration. Photo copies of the relevant documents are to be furnished.
- 6) The bidder should have professional competence / ability to provide dedicated team of professionals for timely execution and maintenance.
- 7) The bidder should not have been **debarred or blacklisted by any Central Government Department / Organization, public Sector undertaking and State Government**.
- 8) Bidder should complete the entire tender including **Camera, Fiber Optic Cable, Monitor and Cast Iron Pole**. Only **One bidder** will be allowed to complete the entire project work.

### CCTV Cast Iron Pole Specification

1. Pole under Grade 30.
2. Material should be pure Cast Iron.
3. Berger paint E-poxy ( 1 coat Primer, 1 coat MIO, 1 coat finished, Paint should be Green Colour )
4. Total Pole height 4 meters, side arm 2ft, top diameter 40 mm, base diameter 75 mm and cast iron pole 10 mm thickness.
5. The pole to be installed on 3 sq ft. concrete ground base with rod & 12 inch Bolt on the concrete

SL.No	Product Description	Qty
1.	<b>Cast Iron Pole Material – Cast Iron Height – 4 Meter Color - Green</b>	2
	Foundation with Erection & Commissioning charges	2

# Product Design



Letter for Submission of tender

Dated \_\_\_\_\_, 2018

To,  
The Administrative Officer  
Victoria Memorial Hall  
1, Queen's Way  
Kolkata – 700 071

Ref: Supply and Installation of Closed Circuit Television System (CCTV) at three gates of Victoria Memorial Hall Campus.

Dear Sir,

Having examined the tender document relating to the Supply and Installation of Closed Circuit Television System (CCTV), we hereby submit our offer for the supply of the proposed items in accordance with terms and conditions and confirm our acceptance to execute the order within the time period specified in the tender document, at the rates quoted by us in the accompanying Technical & Financial Bid.

We further confirm that –

- i. We have successfully executed orders of similar nature and we have sufficient experience and financial strength in handling orders of this value.
- ii. We have sufficient qualified manpower and necessary materials and after sales support to execute the order efficiently in the specified time schedule.
- iii. The quoted rates shall be valid for not less than 90 days from the date of opening of quotation.
- iv. We further confirm that all chapters of the tender documents have been read, understood and signed and there is no deviation/discrepancy.

Signature of the Bidder  
With stamp and date



Annexure I

Technical Bid

Technical Specifications of the Device/ Equipment of CCTV Camera

<b>Camera, NVR and LED Monitor Specification</b>					
<b>SL No.</b>	<b>Supply, Installation, Testing &amp; Commissioning of IP Network TDN Low-Light IR Bullet Camera,</b>	<b>MAKE</b>	<b>COD E</b>	<b>Quantity</b>	<b>Compliance (YES / NO)</b>
<b>1</b>	1/2.7" CMOS, 2 MP @ 25fps or better, Triple stream, Min. Illumination required 0.01 lux @ F1.4 (color), 120dB True WDR, Min. Pixels 1920 × 1080, Triple stream, 2.7-12 mm motorized focus & zoom lens, BLC, HLC, 3 DNR, Privacy Mask, 4 IR LEDs Smart IR with upto 60m IR distance, Dual channel Audio G.711a/G.711u/AAC, 128GB SD card support, Alarm: 2 In/ 1out, PoE, H.264 High Profile and MJPEG, PoE Class 3 and 12V DC, IP 67, IK 10 vandal proof, Having Operating temp range : - 40°C to 60° C. <b>Certifications:</b> ONVIF Profile S & Profile G compliant, UL, CSA 60950-22, CE (EN 50130-4 & EN 55022) , FCC Part 15 & RoHS compliant.			<b>12</b>	

<b>SL No.</b>	<b>SITC of 4 megapixel true day/night smart infrared indoor/outdoor IP dome camera</b>	<b>MAKE</b>	<b>CODE</b>	<b>Quantity</b>	
<b>2</b>	VF lens & digital zoom of 16x with true WDR (120 DB) for video surveillance, including design, supply, having certification mandatory Canadian ICES-003 ,			<b>2</b>	
	Underwriters Laboratories Inc. (UL)A.				
	The IP dome camera shall be equipped with a <b>1/3" 4 MP progressive scan CMOS imager to capture 1280×960 (25/30 fps)/Full HD 720p (25/30 fps) or 2304×1296 (20 fps)/Full HD 1080p (25/30 fps) images; 2.7-13.5 mm vf lens and MFZ 1.4 &amp; on board SD card slot up to 128 GB; as a true day/night solution,</b>				
	The camera shall use Smart IR technology and provide up to <b>148 ft (45 m) of IR illumination.</b>				
	The camera shall accept <b>PoE (802.3af) or 12 V DC power input.</b>				
	<b>OEM must have minimum ten (10) years experience in manufacturing and maintaining video surveillance systems.</b>				
	Manufacturer shall provide toll-free technical assistance and support available 24/7.				

<b>SL No.</b>	<b>16 channels NVR</b>	<b>MAKE</b>	<b>CODE</b>	<b>Quantity</b>	
<b>3</b>	SITC of 16-channel 4K embedded network video recorder, including certification Underwriters Laboratories Inc. (UL). ITU-T Video Coding Experts Group (VCEG) ,			<b>1</b>	
	Open Network Video Interface Forum ( <b>ONVIF</b> ),				

Real Time Streaming Protocol (RTSP).				
High decoding capability for Ultra <b>4K HD</b> viewing and recording ,				
view 16 channels simultaneously with synchronized real-time playback on your monitor (depending on your model) up to <b>12 MP (4K)</b> resolution live view, preview, and playback up to <b>16 channels at 1080p, H.265/H.264 decoding.</b>				
Internal storage supports <b>4 HDDs expandable up to 32 TB (8 TB each).</b>				
Store video clips and snapshots to external network storage servers, such as an FTP site.				
Store video clips and snapshots to a <b>USB memory device Monitor</b> from anywhere using the mobile apps for both Apple® and Android™ devices (smartphones, tablet computers, and laptops).				
Password-protected access to the NVR's video and network setup <b>Emissions: FCC Part 15B; EN 55032: 2012 + AC: 2013, EN 61000-3-2: 2014, EN 61000-3-3: 2013. Immunity: EU - EN 50130-4: 2011 + A1: 2014, EN 55024: 2010 + A1: 2015.</b>				
<b>Certification must be UL Listed to UL/CSA 60950-1; EU - EN 60950-1. RoHS: EN 50581: 2012.</b>				

## Annexure I

Specification	Compliance (YES / NO)
<b>6 Port Rack Mount LIU</b>	
6-Port, 19" Rack Mount LIU Fully Loaded with Single Mode SC Adapters	
Aluminium/Steel base material with powder coating for light mounting	
Snap-in locker design, easy to change the adapter panels	
Front mounted cable saddles for jumper management	
It should have facility for managing splices & terminations	
It should have rubber fiber slotted bracket built-in	
It should be capable of storing upto 3mtr of 900micron tight buffered fiber per adapter	
It should have snap-in locker design for easy to change adapter panels for various connector patching	
It should have removable rubber grommet allowing for pre-terminated fibre trunk installation, cable protection & minimizing dust build-up.	
It should have atleast 4 rubber cable plugs for cable entries.	
It should have removable front & top covers for better access to interior of LIU	
It should be supplied with cable ties, mounting ear screws and spiral wrap tubes	
All the passive components including rack should be from same make	
OEM should be ISO9001 and ISO14001 certified for design, development for LAN & WAN products.	
<b>Fiber Optic Pigtail</b>	
Corning Optical Fiber single mode complying to OS1, G652D	
SC type Single Mode Connector	
Low insertion & return loss, clean & scratch free faces	
1Mtr length	
Insertion Loss: Typical: $\leq 0.2\text{dB}$ , Max. $0.3\text{dB}$	
Connector Ferrule: Ceramic	
Repeatability: atleast 1000 times mating cycles	
Working Temp : -10 deg C.to + 60 deg. C	
All the passive components including rack should be from same make	
OEM should be ISO9001 and ISO14001 certified for design, development for LAN & WAN products.	
<b>Fiber Optic Patch Cord</b>	
All optical fiber patch leads shall comprise of Single mode 9/125 $\mu\text{m}$ fiber with SC & LC fiber connectors terminated at each end. The optical fiber patch leads shall comply with the following specifications:	
Optical Fiber – Corning Single Mode	
High Precision ceramic ferrule with good concentricity	
Low insertion loss & return loss, clean and scratch free end faces	
Duplex	
Color-coded Yellow for SM	
Insertion Loss - $<0.3\text{ db}$ & Return Loss: $\geq 50\text{ dB}$	
Cable: 9/125, SM OS1 grade.	
Repeatability : 1000 times mating cycles	
Working Temp: -10 Deg C to +60 Deg C	
Length : 2Mtr	
All the passive components including rack should be from same make	
OEM should be ISO9001 and ISO14001 certified for design, development for LAN & WAN products.	
<b>Cat6 UTP Cable</b>	

Category 6 Unshielded Twisted Pair 4 pair 100Ω cable shall be compliant with ANSI/TIA-568-C.2 category 6 & ISO 11801 Class E. Performance verified upto 600MHz. UL Listed & ETL Verified.	
Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.	
All Category 6 cables shall meet or exceed the following characteristics:	
Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half shall not be accepted.	
Conductor Solid bare Copper	
Conductor Diameter: 23 AWG	
Insulation :High Density Polyethylene	
Jacket: FR-PVC	
Outer Diameter 6.1 mm nominal	
Insertion Loss: 32.8dB/100mtr @ 250MHz	
Box of 305Mtr, each meter printed with sequential length counter	
<b>Electrical Properties:</b>	
Characteristic Impedence: $100 \pm 6 \Omega$	
Conductor Resistance: $\leq 9.38\Omega /100m$	
Insulation Resistance: 100M $\Omega$	
Mutual Capacitance: $< 5.6nF/100m$	
Delay Skew: $< 45nS$	
NVP (%): 69%	
Dielectric Strength: 1KV DC OR 0.75KV AC for 1min	
All the passive components including rack should be from same make	
OEM should have valid ISO 9001 & ISO 14001 for design & development for wired & wireless networking products.	

## Annexure II

### Financial Bid

Sl.No	Device/Equipment	Particulars	Make	Warranty (In month)	Qty. In No.	Unit	Rate (Per Unit) Inclusive of all taxes & charges	Amount
1	IP Network Bullet Camera	2 MP V-F Bullet Camera			12	No		
2	IP Network Dome Camera	4 MP V-F Dome Camera			2	No		
3	Network Video Recorder	16 CH NVR			1	No		
4	HDD	6 TB Surveillance			4	No		
5	Monitor	32" Display			1	No		
6	Optical Fiber Cable	6 Core Single Mode			465	mtr		
7	Loaded LIU with Adoptor & Pitgil	6 Port			9	No		
8	SM SFP Module				7	No		
9	LC - LC / SC - LC Fiber Patch cord SM				9	No		
10	HDPE Pipe	For Fiber Cable Pulling			450	mtr		
11	Cat-6 Cable	UTP Cable			980	mtr		
12	Soft soil Digging	Digging upto 3			192	mtr		
13	Cost for concrete cutting / Boring & Refilling Cutting/Boring upto 4 inches Standard 1005 mtr	Cutting / Boring 4 inches			1005	mtr		
14	Cost of Cable pulling through HDPE Pipe				485	mtr		
15	Cost of placing of HDPE pipe in the Excavated trenches				485	mtr		
16	Cat-6 cable laying with 25mm ISI Conduit				980	mtr		
17	6 Core termination/Fiber Core Splicing				24	No		
18	Fixing of 4 Port Box in the Wall / LIU fixing & dressing				4	No		
19	9U Wall Mount Rack				4	No		

	with Accessories							
20	Rack Fixing & Dressing				4			
21	8 Port POE Switch with SFP port				1	No		
22	24 Port Poe Switch with SFP Port				1	No		
23	Installation				14	No		
24	Camera Fixing Accessories				14	No		
25	Cantilever for existing polepole				9	No		
26	Cast Iron Pole (Instalation and Commisioning)				2	No		
27	Extra Work				1	Slo t		
					<b>Total (in figures)</b>			

**Total in words:-**

**Note:** 1. The Financial Bid shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.

2. The total quoted price should include all travel cost, shipping charges and other administrative cost, if any, that may be incurred by the vendor as part of this project.

Signature of the Bidder

Name

With stamp and date