



Sree Padmanabha Swamy Temple

Mathilakam Office, Ulsavamadam Building, North Nada,
Fort (PO), Thiruvananthapuram-695023

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No. C3/MO/SPST/2024/664

Date: 04.05.2024

NOTICE INVITING TENDER

Sealed Tenders are invited for repairs of 14 No's of defective CCTV cameras and for providing Comprehensive Annual Maintenance Contract (CAMC) for 74 Nos of different types of CCTV Cameras detailed in the attached list and allied equipments for Sree Padmanabha Swamy Temple.

Eligibility criteria, Technical Specifications, Terms and Conditions are specified in the Document which will be supplied along with the tender forms. Tender forms can be had from the office of the temple up to 1:00 pm on 13.05.2024 on working hours on all working days. Interested Companies / Firms who are eligible as per the eligibility criteria can apply. Details are available in our website spst.in.

The envelope containing the tender should be super scribed as “**Tender for the repairs of cameras and for CAMC**” and should be addressed to the Executive Officer, Sree Padmanabha Swamy Temple, Fort P.O, Thiruvananthapuram. The last date and time for submission of Tender along with EMD of Rs.28,000 (as Demand Draft drawn in favour of Executive Officer) is 1:00 pm on 16.05.2024. All tenders received up to 3:00 pm will be opened at 3:30 pm on the same day. If the date of opening the tender happens to be a holiday due to unexpected circumstances, tender will be opened on the next working day at the same place at the same time.

EXECUTIVE OFFICER

Copy to: C3 Section (shall be upload in Temple website), Notice Board in Office, East Nada, West Nada, North Nada, South Nada and Thiruvambady Nada and Stock file.

1. Requirement:

Bids are invited under two bid system from the eligible vendors / distributors for repairs of 14 Nos defective cameras and for providing Comprehensive Annual Maintenance Contract (CAMC) for 74 Nos of different types of CCTV Cameras and allied equipments installed in the Sree Padmanabha Swamy Temple premises.

1. Interested parties shall submit their tender in 2 separate sealed covers super scribed as “TECHNICAL BID for repairs of cameras and CAMC ” and “PRICE BID for repairs of defective cameras and for providing Comprehensive Annual Maintenance Contract (CAMC)”.
- a) Cover-I :- **Duly sealed cover** super scribed as “Technical Bid for repairs of defective cameras and for providing Comprehensive Annual Maintenance Contract (CAMC)” **shall contain only technical bid** along with Basic Information, details of the company, covering letter for technical bid with all copies of certificates, work experience etc.
- b) Cover-II: - **Duly sealed cover** super scribed as “Commercial Bid repairs of defective cameras and for providing Comprehensive Annual Maintenance Contract (CAMC)” **shall contain only Price Bid in the Temple’s prescribed format.**
- c) Each tender should be accompanied by an Earnest Money Deposit (EMD) of Rs. 28,000/- by way of Demand Draft drawn in favour of the Executive Officer, Sree Padmanabha Swamy Temple, Fort P.O, Thiruvananthapuram. Late and incomplete tenders and tenders without EMD will not be accepted.
- d) Both the sealed covers and DD shall then be put in one single envelope and sealed and duly super scribed “**Application/Offer for repairs of cameras and CAMC**” **and also the complete address of the tenderer/firm.** This envelope should contain Technical and Price bids and DD of Rs.28,000 in favour of Executive Officer, Sree Padmanabha Swamy Temple as Earnest money and is addressed to The Executive Officer, Sree Padmanabha Swamy Temple.

2. Price Bid shall specify against each item in the list the amount chargeable for the repairs and for CAMC without subject to any conditions.
3. "Technical Bid" will be opened first for short listing of parties/ firms prior to opening of "Price Bid".
4. Price Bids of only those shortlisted tenderers/firms shall be opened who have qualified in the technical bid.
5. The rate quoted should be inclusive of all incidental expenses, tax etc.
6. Completed quotes in sealed envelopes should reach "The Executive Officer Sree Padmanabha Swamy Temple, Thiruvananthapuram on or before 3:00pm on 16.05.2024.
7. Rate quoted should be valid for a period of six months from date of order issued by the temple awarding the work.
8. Tenders will be opened at 03:30pm at the Office of The Executive Officer, Sree Padmanabha Swamy Temple, Trivandrum on 16.05.2024 in the presence of those person who have and are there at this time.
9. The bid which is received after due date & time is liable for rejection. Applications incomplete in any respect, without requisite EMD & which are not legible are liable for rejection.
10. Each page of the bid should be signed. The application shall be signed by the competent authority on behalf of the organization having necessary authorization / Power of Attorney to do so.
11. The Temple reserves the right to cancel one or all tenders without assigning any reason whatsoever.
12. All bidders shall study the above mentioned conditions carefully before submitting their tenders.

2. Scope of the work:

1. The work consists of repairs of the defective cameras and for providing Comprehensive Annual Maintenance Contract in accordance with the technical specifications, terms and conditions mentioned in tender documents.
2. The specification of the equipment supplied should be equivalent or higher than the specifications mentioned in the tender document and the vendor should specify the brand/model/make in their technical offer.
3. The prices quoted in the Commercial Bid should be inclusive of all materials, labour, tools and equipment freight cost of carriage, all taxes and duties, installation and commission, and necessary management for completion of the work.
4. The vendor shall quote the prices for providing complete solution. After placing the order, the Temple will not pay any extra amount which is not mentioned in the Price bid.
5. All products/ items should have certifications as specified in the technical specifications.
6. Intending tenderers can visit the site and make themselves thoroughly acquainted with the local site condition, nature and requirements of the works, facilities of transport condition, effective labour and materials, access and storage for materials and removal of debris and or wastes.
7. The vendor has to bear all the transportation charges and other charges as also observe all the required Government formalities and rules and shall make available the required documents to Temple if any in this regard..
8. The successful vendor will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site condition during the execution of work for men and material.
9. The Temple reserves the right to reject the lowest or any tender and also to discharge any or all of the tenders for each section or to split up and distribute any item of work to any specialist firm or firms, without assigning any reason.

10. The vendor should note that the tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting.
11. The applicant shall note that the rate quoted in the tender shall remain in force for a period of 60 (sixty) days from the date of opening of the tender.
12. The company should provide standby item in case the item is not repairable at temple and taken away from the Temple for more than 48 hours.
13. The vendor will be liable to pay penal charges on the following situation:
 - a. If an equipment is not functioning for more than three working days, then Temple office shall have the right to penalize the vendor @ Rs 200 per day for the first seven working days and thereafter at a higher rate which shall be charged from the bank guarantee
18. The vendor on execution of the agreement shall produce Bank Guarantee for a value of 5% of the contract value.

3. General Conditions:

1. The Successful Bidder will be engaged for repairs of 14 Nos defective cameras and for providing Comprehensive Annual Maintenance Contract (CAMC) for 74 Nos of different types of CCTV Cameras and allied equipments installed in the Sree Padmanabha Swamy Temple premises to Sree Padmanabha Temple.
2. There will be no escalation of rate after submission of the tender.
3. Payment Terms: The Payment will be effected after the completion of repair works and execution of Tri-Party Agreement for CAMC between the Deputy Commissioner of Police, Temple Security, Executive Officer and the Firm. No advance or part payment shall be given.
4. The Temple reserves the right for the following:
 - Reject any or all proposals received in response to the tender without giving any reason whatsoever
 - Reject the proposals received in response to the tender containing any deviation from the payment terms stipulated
 - To independently ascertain information from other institutions to which the company / firm has already executed the similar services for similar assignment.
 - Apply whatever evaluation criteria deemed appropriate for evaluation of Technical Bids.
 - To terminate the services if the assignment is not proceeding in accordance with the terms of contract or undue delay is taking place in execution of the assignment.

5. Permit and Licenses

Permissions from the competent authorities for transportation of the materials/equipment to execute the purchase/work orders are the responsibility of the vendor.

The software/computer programs used to execute the purchase/work orders should be licensed from the respective vendor/manufacture/supplier.

6. Taxes and Duties

The vendor must include in their tender prices quoted all duties, royalties, cess, GST or any other taxes or local charges if applicable. No extra claim on this account will in any case be entertained.

7. Earnest Money Deposit

The bidder will have to deposit an amount Rs.28,000/- in the Tender Notice in the form of Bank Draft drawn in favour of "The Executive Officer, Sree Padmanbha Swamy Temple" at the time of submission of tender as Earnest Money. No interest will be paid on the Earnest money. The Earnest money of the unsuccessful bidders will be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of the tender.

9. Liquidated Damages

If the Bidder fails to complete the works within the time for completion stated in the tender document or elsewhere or within any extended time under allowed by the Temple, the Bidder shall pay the Temple a sum at the rate of 1% (one per cent) of the Contract Value per week of delay subject to a limit of 10% (ten percent) of the Contract Value as "Liquidated damages" for the period during which the said works shall so remain incomplete and the Temple may deduct aforesaid sum towards such damages from any monies due to the Bidder.

10. Support of the manufacturers (OEMs) :

The bidder shall furnish MAF of the equipment manufacturers against the items used in the works, with a commitment to direct support for the maintenance, supply of the spares and up-gradations by the OEM.

4. Eligibility Criteria for the bidder:

1.	The bidder should have at least 10 years' experience in similar outdoor works and should have done works for a minimum of 50 cameras, copies of PO to be enclosed.
2.	MSME's bidder's will be given priority.
3.	The bidder should not have been black listed by any organisation and or Institutions, self-declaration to be submitted as per annexure 1
4.	The Vendor should have local office in Trivandrum city limits for a minimum of 3 preceding years, proof to be submitted.
5.	The vendor should have an annual turnover of 2 crores per annum for the last three financial years
6.	Bidders with ISO certification will have added advantage.
7.	The bidder should have sufficient exposure in installation and maintaining Fiber optic Network and Under Ground cables.
8.	The bidder should submit Tool kit list available with them to be used for such CAMC works.

Annexure-1

(To be submitted in Letter Head)

To

The Executive officer,
Sree Padmanabha Swami Temple,
Thiruvananthapuram-695023. Kerala.

Tender No:

Sir,

I have carefully gone through the Terms & Conditions contained in the Tender Document [No. -). I hereby declare that my company has not been debarred/black listed as on Bid calling date by any State Government, Central Government, Central & State Govt. Undertakings/enterprises/Organizations and by any other Quasi Government bodies/Organizations, World Bank and any other major Enterprise/Organizations in India for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices. Further, declaring that no cases pending against the firm/organization either in Government (State or Union) or as mentioned above for involvement in cases for supply of sub-standard goods/material or track record of supply of inferior quality or no enquiries on past supplies are being conducted or underway. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

Signature of the Bidder

Name:

Designation:

5. Format for submission of Eligibility with Technical bid:

Sl no	Eligibility condition	Compliance
1.	The bidder should have at least 10 years' experience in similar outdoor works and should have done works for a minimum of 50 cameras, copies of PO to be enclosed.	
2.	The bidder should give Bank Guarantee for a value of 5% on contract value	
3.	Proof of registration with GST, and recent copies of the payment remittance proof should be submitted.	
4.	The validity of the quote should be 90 days	
5.	The company should not be black listed by any PSU banks/Govt. organizations. Self declaration should be submitted by the authorized official of the company to this effect.	
6.	Duly signed and sealed copy of the Tender form	
7.	Agreement in Stamp paper of Rs 200 (To be furnished by the successful tenderer on receipt of supply order from the temple)	
8.	The Vendor should have local office in Trivandrum city limits for a minimum of 3 preceding years, proof to be submitted.	
9.	The vendor should have an annual turnover of 2 crores per annum for the last three financial years	
10.	Bidders with ISO certification will have added advantage.	
11.	The bidder should have sufficient exposure in installation and maintaining Fiber optic Network and Under Ground cables.	
12.	The bidder should submit Tool kit list available with them to be used for such CAMC works.	

PRICE BID

6. Technical Specifications:

1. Repairs of defective cameras:

Sl. No.	Camera Local Views	COMPLAINT	Uom	Qty	Rate	Amount
1	West Fort View	Bullet camera Repairing	Nos	1		
		Surge Protector Replacement	Nos	1		
2	west fort North View	Surge Protector Replacement	Nos	1		
3	Vettakalam View & Agro View	OFC Patchcode Complaint	Nos	1		
		Surge Protector Replacement - PTZ	Nos	2		
4	North View	Adaptor	Nos	1		
5	Ramachandran Road View	Bullet camera Repairing	Nos	1		
	Ganapathi Temple View	Surge Protector Replacement	Nos	1		
6	Ananthakadu left & Right	Adaptor complaint	Nos	1		
7	Vasudeva Vilasam View	Bullet camera Repairing	Nos	1		
		Surge Protector Replacement - PTZ	Nos	2		
8	East Blocker View	Adaptor	Nos	1		
9	East Bollard View	Surge Protector Replacement	Nos	1		
10	East clock Room PTZ	Surge Protector Replacement	Nos	1		
		Adaptor complaint	Nos	1		
		fiber cut	Nos	1		
11	CHITRALAYAM MUSEUM VIEW	Bullet camera Repairing	Nos	1		
		Surge Protector Replacement	Nos	1		
12	Bhajana pura palace View	Bullet camera Repairing	Nos	1		
		Surge Protector Replacement	Nos	1		
13	Thekkekara kanal view	Bullet camera Repairing	Nos	1		
		Surge Protector Replacement	Nos	1		
14	Mithrananthapuram pond	Moisture in camera	Nos	1		
Total (inclusive of all taxes and duties including loading and unloading charges etc):						

2. Comprehensive Annual Maintenance Contract (CAMC) – 74 Nos of Cameras and allied equipments :

1. AMC Type

Comprehensive

2. Components to be covered under AMC

Hardware
Networking System
Installation Accessories, Poles

3. Cost for Consumable Materials

Included

4. Types of Premises

Roads, Streets and Lanes

5. Control Unit Type

Control Room

6. Preventive Maintenance & Check Up

Quarterly

7. Data Backup and Recovery required

Not required

8. Monitoring

Monitors

Video wall

Ups & Batteries

9. Networking

OFC

Cat 6

Switches

Surge Protectors

Earthing

AMC Items				
SL NO	Description	Quantity	Unit	Amount
1	6 meter 4" GI Pipe, ISI, Class B fabricated pole with sheet base with required fixtures as per drawing	13	Numbers	
2	6 meter 3" GI Pipe, ISI, Class B fabricated pole with sheet base with required fixtures as per drawing	14	Numbers	
3	<p>BULLET CAMERA : 2 MP WDR Array Bullet Camera - 30Mtr. Fixed IR Full HD camera Image Sensor 1/2.9" 2MP Progressive scan CMOS Minimum Illumination Colour: 0.02 Lux (F1.4, AGC ON) 0 Lux with IR on Shutter Speed Auto/Manual, 1/6~1/100000 s White Balance Auto/Manual Lens 2.8~12mm Motorized Lens AGC Control Auto/Manual Video Compression H.265, H.264, MJPEG S/N Ratio >52dB Back Light Comp. Auto/ Optical WDR (Upto 120dB) Video Streaming Triple Resolution 2MP (1920 x 1080) Frame Rate Main Stream: 1080P (1920x1080): Max. 25fps, Sub Stream: 1080P (1920x1280): Max. 20fps ICR IR-cut filter with auto switch (ICR) ROI supports Audio Input impedance 35 k Ohm; amplitude 2 V [p-p] Audio Output impedance 600 Ohm; amplitude 2 V [p-p] Audio Compression G.711 Alarm IN 1 IN Alarm Out 1 Out Protocol L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SIP, 802.1x, ONVIF, API Smart Detection Intrusion, crossing line, Motion detection, Audio detection, Face detection, People counting IR IR Range of 30 Mtr., Smart IR Micro SD Micro SD, Upto 128 GB Operating Temperature -35°C ~ +60°C (-31°F ~ 140°F) Humidity <95% RH (non-condensing) Power Source 12VDC, or PoE (IEEE 802.3af) Power Consumption Max 9 W Weather proof Standard IP66 Dimension 253.4mm x 86mm x 71.7mm (9.98" x 3.4" x 2.8") Weight 0.58 kg</p>	60	Numbers	

4	<p>PTZ CAMERA: 2MP 20x Full HD Network IR PTZ Camera - 150 Mtr. ImageSensor1/3"2MPPS CMOS EffectivePixels1920(H) x 1080(V) S/N Ratio>52Db Minimum Illumination Colour: 0.03 lux(F1.5, AGC ON) 0 lux with IR FocalLength5.2~104mm White Balance Auto/Manual Focus Control Auto/Manual Iris Control Auto/Manual;F1.5~ F3.0AngleofView61.9°(wide)~ 3.5°(tele) Electronic ShutterAuto/Manual; shuttertime:1/6s~1/10000s AGC Control Auto/Manual Back Light Compensation Auto/DWDROpticalZoom20xDigitalZoomsupports Pan Travel360° endless, Pan Speed: 0.1°/s ~ 240°/s Tilt Travel-15° ~ 90°, Tilt Speed: 0.1° ~160°/sec Presets 256 Preset Speed Pan: 300°/s; Tilt: 240°/s Day/Night: IR Cut Filter IR-cut filter with auto switch (ICR) Video CompressionH.265, H.264,MJPEG VideoStreaming1080P(1920×1080):Max.30fps,720P(1280×720):Max.30fps,D1(720×576):Max.30 Fps Audio ComprerssionG.711a Audio Streaming Two way Talk Supported IVS Intrusion, crossing line, Motion detection, Audio detection, Face detection, People counting etworking10M/100M Base-TX Ethernet ProtocolsL2TP,IPv4, IGMP,ICMP,ARP,TCP,UDP, DHCP, PPPoE, RTP,RTSP,RTCP,DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP 802.1x, ONVIF, APIAlarm1 In/1 OutOperatingTemperature40°C~ +65°C(-40°F~ 149°F),Humidity=95%RH(non-condensing)WeatherproofStandardIP66 DimensionØ227x359.4mm(Ø8.9" x14.2")Weight5.28kgPower Source24 V AC, 24 V DC, PoE (PSE Required) PowerConsumption9~ 42WMemoryMicroSD,upto128GB OpticalZoom20x</p>	14	Numbers	
5	<p>Lan surge protector : Electrical Parameter Max.continuousoperatingvoltageUc5V,Nominaldischargecurrent8/20µsIn3kA Max.dischargecurrent 8/20µs I_{max} 5Ka Limiting voltage (10/700µs) Up Line-line 25VLine-ground 500V Adaptrtransmissionrate100MbpsInsertionloss0.5dB Protectionline1/2,3/6ResponsetimetA1nsInterfaceformRJ45Protection way2Protectionport1Mechanical characteristics (Dimension 83(L) ×25(W) ×25(H)mm Weight per unit 76g IP Code IP20Working conditions Temperature: -40 to 80 , Relative humidity:95 StandardsComplianceIEC61643-1,RoHS</p>	74	Numbers	
6	<p>Camera,JB,PoleearthingusingPipeasperPWDstandardand1Plateearthin gasperpwd standards</p>	38	Numbers	
7	<p>UtpcableCat6meetingstandards ofANSI/TSA-568-C.2category6-ISO11801ClassE</p>	3628	Meters	

8	<p>POESWITCH: 8PortPoeswitchwith2x1G fiber up link port with SFP module, PoE Mode End-span Relatively Operating Humidity5%-95%(Non-condensing) Switch Capacity20Gbps Color Black SurgeImmunity6KVUplinkPorts1x10/100/1000Base-TEthernetPorts&1x1000Base-XSFPPortPoEOutputSingle PoE Output≤30W(54V DC), Whole machine PoE output≤120W Power Consumption5W PoE Power Supply1/2(+),3/6(-)PoEStandard802.3af/at(PSE)PowerSourceDC48V~57VNet Weight(g)500g</p> <p>Dimension200mmx101.8mmx27mmDownlinkPorts8x10/100/1000Base-TEthernetPorts(PoE)</p> <p>ExchangeCapacitystorage&FowardingESDProtectionContactdischarge 6K,Airdischarge8KV,Per:IEC61000-4-2 Packet Forwarding Rate14Mpps Operating Temperature- 10°C~ 45°C</p> <p>MACAddressList4K</p>	33	Numbers	
9	<p>Pole mounted all weather fiber Power JB with necessary MCB, Power surge protectors & Power strips</p> <p>And connectors/terminators</p>	35	Numbers	
10	<p>Pole mounted Fiber all weather JB for Switch and with network components Sintex25x35</p>	28	Numbers	
11	<p>FIBER CABLE: 24 FUG SM fiber : Property</p> <p>MaximumIndividualFiberAttenuation1310/1550nm</p> <p>Point Discontinuitiesat 1310 /1550nm, Water Peak Attenuationat 1383nm,Attenuation Change vs.</p> <p>Wavelength1285to1310nm,AttenuationChangevs. Wavelength1525to1575nm Attenuation Change vs. Bending 100 wraps / 75 mm</p> <p>AttenuationChangevs.Bending1 wrap/32mm</p> <p>Zero Dispersion Wavelength, Maximum Dispersion at 1310 / 1550, Zero Dispersion Slope, Nominal ModeFieldDiameter1310 nm, Nominal Mode FieldDiameter1550nm</p> <p>ModeFieldDiameterTolerance,CabledFiberCutoffWavelength(lcc),GroupIndexofRefraction1310 nm, Group Index of Refraction1550nm, Polarization Mode Dispersion</p> <p>Specification,0.35/0.22dB/km,0.10dB,Lessthanat1310nm0.10dB/km,0.05dB/km,0.10dB,0.50dB,1300–1324nm</p> <p>3.2/18.0ps/nmxkm,0.092ps/nm2xkm,9.0–9.3µm</p> <p>Typically10.5µm,±0.5µm,< 1260nm,1.466,1.467</p> <p><0.5ps/Ökm, Mechanical Characteristics, Property</p> <p>ProofTestStress,FiberCurl,Specification,100kpsi(0.69GP)</p> <p>≥ 4meters</p>	2044	Meters	
12	<p>Lastmiledroptterminationfiber4/6F,SingleMode,unarmorued</p>	1900	Meters	
13	<p>IP55MeterboxwithFuse, Neutral link, DP switch, provision for fixing KSEB meter and output socket. Including depost and charges for E connection in the name of Police chief(Rs.4500/-provisioned)</p>	21	Numbers	
14	<p>2.5sq.mm,3coreCopperPowercableISI</p>	267	Meters	
15	<p>1.5sq.mm,3coreCopperPowercableISI</p>	778	Meters	
16	<p>HDPEPIPE:PE63-25mm (2100meter) & 32mm (8900meter) HDPE Pipe ISI with fitting accessories, Manufacture dasper IS-4984,ISO-4427,DIN8074,ASTMD3035andBS-6437 standardsin PE- 63/80/100 grades.</p>	4538	Meters	

17	Power distribution JB-UPSIN for Indoor/Control room ISIU sing. 4way, 12module, metal double door DB, with 4 pole 40 Ampisolator, ,ELCB, MCB, Electrical Surge protection and maintenance free earthing etc	2	Numbers	
18	Power distribution JB-UPS out for Indoor/ Control room ISI Using .4way,12 module, metal double door DB, with, MCCB, ELCB, MCB etc & earthing.	1	Numbers	
19	UPS : Online APC UPS 6KVA for Indoor/control room with 2hrs backup @ connected load of 5KVA:Output Output Power Capacity 5400 Watts/6000 VA Max Configurable Power(Watts)5400Watts/6000VA Nominal Output Voltage 230V Output Voltage Note Configurable for 220:230 or 240 nominal output voltage Output Voltage Distortion Less than 5% Other Output Voltages 220, 240 V Other Output Voltages Double Conversion Online Wave form Type Sine wave Output Connections(1) HardWire3-wire(HN+G) (Battery Backup) Bypass Built-in Static By pass Input Nominal Input Voltage 230V, Input Frequency40- 70Hz Input Connections Hard Wire3-wire, Input voltage range for main operations160-285 V. Communications & Management Available Smart Slot™ Interface Quantity Control panel Multi-function LCD status and control console Surge Protection and Filtering Surge energy rating 480 Joules Filtering Fulltime multi-pole noise filtering:0.3%IEEEsurge let-through: zero clamping response time : meets UL 1449,EnvironmentalOperating Environment0- 40°C Operating Relative Humidity0-95%OperatingElevation0-900metersStorageTemperature-15-65 °C Storage Relative Humidity 0-95% Storage Elevation 0-3000meters Audible noise at 1 meter from surface of unit 55.000dB	3	Numbers	
20	24U fully loaded LIU. 24 PORT Rack mount LIU Loaded with 1X24 F Splice Holder,12XSASM Duplex Coupler, 24XSASM Simplex Pigtail1.5mtrs	3	Numbers	
21	24 Port Managable Giga SFP switch, L3withredundancy supply • 24 or 48 Gigabit Ethernet ports with line-rate forwarding performance • 4 fixed 1 Gigabit Ethernet Small Form-Factor Pluggable (SFP) uplinks or 2 fixed 10 Gigabit Ethernet SFP+ uplinks•PoE+supportwithapowerbudgetofupto740WandPerpetualPoE •CiscoIOSLAN Basel or LAN Lite1 andCiscoIOSIPLite2•DevicemanagementwithwebUI,over-the-airaccessviaBluetooth, Command-LineInterface(CLI),SimpleNetworkManagementProtocol(SNMP),and RJ-45orUSB consoleaccess•NetworkmanagementwithPrime®,NetworkPlugandPlay,andDNATMCenter• StackingwithFlexStack-PlusandFlexStack-Extended•Layer3featureswithroutedaccess(Open ShortestPathFirst[OSPF]),staticrouting,andRoutingInformationProtocol(RIP)•Visibilitywith Domain Name System as an Authoritative Source (DNS-AS) and Full (Flexible) Net Flow• Security with 802.1X,SerialPortAnalyzer (SPAN) and Bridge Protocol Data Unit(BPDU)Guard	2	Numbers	

22	<p>Server with HDD raid TWO SOCKE TRACK Lenovox3650M5High-End"IntelXeonE5(DecaCore) E5-2630v4"2.2Ghz25MB2133MHz16GB X1Open Bay 2.5"HotSwapSAS/ SATAMULTI BURNERIntegratedRAID01(M5210)3yearsOnsite + 24x7,16GB TruDDR4 Memory(2Rx4,1.2V) PC4-19200CL172400MHzLPRDIMM600GB10K12GbpsSAS2.5"G3HSHDD, Systemx550W HighEfficiencyPlatinumACPowerSupplyaddon,ServeRAIDM5200Series1 GBCache/RAID5 Upgrade for IBM Systems (Oakley)*</p>	1	Numbers	
23	<p>Licenced Video Management Software for 120 cammax with NVR, HDD for 30days storage Channel Licence 32Processor Dual-core embedded processor Operating Systems Embedded Linux Video Comperssion H.256 Resolution 4K upto 12MP Bandwidth 320Mbps Processors Dual-core embedded processor Two-way Talk 1channel, RCA Video Resolution3840x2160,1920x1080,1280x1024,1280x720, 024x768Alarm I/O16 input and 4outputHDD8SATA(with4TBx8HDD)Each SATA Supports 8TB RaidRAID0,1,5,6,10InterfacePorts3USBPort,1eSATAPort,1RS232,1RS485Ethernet2RJ- 4510M/100M/1000Mself-adaptiveEthernetInterfacesProtocolsIPV4,HTTP,TCP/IP,UPNP,RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, IP Server, P2P, ONVIF Video Output 2 HDMI, 1 VGA, 1 BNC Audio I/O 1 by 1 SupportsN+1Hotspare</p>	1	Numbers	
24	<p>Desktop WorkStation -6th GenIntelCorei3-6100, 4GBDDR4RAM,Onboard Graphics,500GB HDD, Win10Pro,Slim SuperMultiDVD,Wifi,Cardreader,WiredUSBKeyboard&Mouse,20"LED</p>	4	Numbers	
25	<p>Network Rack: 42U Fully loaded equipment rack, 42U Rack Frame/600x1000/Steel/NRS1 NRS1-36- RF-6001000 CastersSetof4/TP2CT-TP21 Levellers CRA0002 1 Glass Door/600/36U/NRS1 NRS1-GD-36-600 1MetalDoor/600/36U/NRS1NRS1-MD-36-6001 Side Panels/1000/36U/Vented/NRS1NRS1SP-36-1000-V2 Shelf/1000 S-1000, Shelf/Key Board/19"Rty/1000 S-KB-19-R-1000 1, Fan Module/4Fan/Tower Mount/360CFM FM-4F-TM-3601,1Ph, 230V, 16A,Zeroustandard Vertical, 1Ph, 230V,16A, Zero U standardVertical,rackmountpowerdistributionunitwith,10XIndianRoundPin5A,InletPlugtype 16AIndianRoundPin,16AMCB-PDURating3.6KVA,PDU-V-1-IND-A10-X3-Y4-Z0,Mounting Hardware-CR(Packof20)</p>	1	Numbers	

26	VIDEOWALL:32"FullHDLEDVideowalldisplay,500Cd/m2,HDMIX2, DVI-DX1, VGAX1, VideoIN X1,USBX1,RS232X1,RJ45LANX1,AudioINX1,DVI-DOutX1,AudioOutx1,3.5mmbezelto bezel,IPSLEDDisplay,DVI-DLoopout-Daisychain,USBMediaplayer,Inputfailover/failback,24/7 operation,Portrait/Landscapeinstallation,PC/DVIPowermanagement,24/7operation"OnaMatrixof 2x2totalingto4panels3x3Videowall,total9panelswithcontrollersoftwarewithwallbrackets	1	Numbers	
27	InstalaltionaccessoriessuchasPassivatedbracketsforcamera,JB,otherequipments,nuts,bolts, connectors, glands, lugs etc	1	Numbers	
28	Polemountedlightiningarrestersetconsistingof1.5mtsCCSroadwithsaftyFinaltip,copperclad Steel conductors, Maitenance free earthing and CAD welding for below ground Joint	26	Numbers	
29	Heat shrunk tube of Various Size as required at overhead cable entry points	201	Meters	
Total (inclusive of all taxes and duties including loading and unloading charges etc):				

Place:

Signature of the bidder :

Date:

Name of the bidder :

Company Name and Address :

