

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

**Tender for Supply, installation, testing and commissioning of IP Based
CCTV System & Accessories**

Bids to be submitted online

**Tender No.: VSSC/PURCHASE UNIT I (MAIN PURCHASE)/VS202300338901 dated
08-09-2023**

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT I (MAIN PURCHASE)/VS202300338901**

Tender Date : **08-09-2023**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT I (MAIN PURCHASE)**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC)**

Supply, installation, testing and commissioning of IP Based CCTV System & Accessories

Please go through the terms & conditions and submit your offer in pdf format also.

A.1 Tender Schedule

Bid Submission Start Date : **08-09-2023 09:57**

Bid Clarification Due Date : **12-09-2023 10:00**

Bid Submission Due Date : **05-10-2023 14:00**

Bid Opening Date : **05-10-2023 14:05**

B. Tender Attachments

NA

Instructions To Vendors

1. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. 1. As per the Rule 144(xi) of General Financial Rule, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the competent authority ie., Department for Promotion of Industry and Internal Trade (DPIIT).

2. 2. Hence, Vendors or Agents of a Vendor (Indian or others) from a country sharing border with India shall submit copy of valid registration made with Department for Promotion of Industry and Internal Trade (DPIIT), Government of India along with the tender mandatorily, without which the offer will be treated as invalid.

3. 3. Model Certificate for Tenders : "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered". Please submit this declaration duly signed and stamped by your Authorized signatory in your Company/OEM's Letter head.

4. 4. Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

5. 5. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

2. PPP Make in India(Non- Divisible Items-Class I & II Local Suppliers Only)

1. A committee (with an external expert from a practicing cost accountant or practicing chartered accountant, if required) constituted for independent verification shall verify the self-declarations & auditor's / accountant's certificates on random basis, as per the requirements.

2. a) The subject item falls under Non-divisible category. b) The offers sought only from Class-I & Class-II local suppliers

3. Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: i. Equal to or more than 50%: Class-I local supplier. ii. More than 20% but less than 50%: Class-II local supplier. iii. Less than or equal to 20%: Non-local supplier.
4. False declarations will be in breach of code of the integrity for which a bidder or its successor's will not be eligible/debarred for purchase preference from further tenders / pending tenders for two years along with other actions as may be applicable.
5. In case of a complaint received from any local supplier indicating a need for review / verification of Local content of successful vendor / awarded vendor, for accepting a complaint from such complainant (w.r.t the false declaration given by the successful vendor on the local content), a complaint fee of Rs.2Lakhs or 1% of the locally manufactured items being procured (subject to a maximum Rs. 5Lakhs), whichever was higher, to be paid by demand draft by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.
6. In cases the quoted price is in excess of Rs.1000 Lakhs (including duties, taxes and freight & Insurance) the 'Class-I & II local supplier shall provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in case of suppliers other than companies) giving the percentage of local content.
7. In line with Public Procurement (Preference to Make in India), Order 2017 & its amendments issued by Govt. of India from time to time with a view to support the Indian industries, ISRO has implemented "Purchase Preference Policy". The "Purchase Preference" is applicable for the "Class-I Local Supplier" for the goods/ services/ works covered in this tender, subject to the following terms & conditions:-
8. 'L1' means the lowest technically accepted tender / bid / quotation (i.e. lowest landed cost including duties, taxes and freight & Insurance).
9. 'Local content' means the amount of value added in India (i.e. indigenous items/services added in the offered products/ services/ works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent.
10. 'Margin of purchase preference' means the maximum extent to which the price quoted by the "Class-I local supplier" above the L1 (landed cost).
11. Purchase Preference Policy:- Goods/Works which are not divisible (ie., required quantity is 1 or as a package) and Services:
- a)If L1 is from a 'Class-I local supplier, the contract will be awarded to L1 bidder.

b) If L1 is not from a 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference (i.e. 20%) and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price (inclusive of duties, taxes and freight & insurance).

c) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on, and order/contract shall be awarded accordingly. In case where none of the 'Class-I local supplier' within the margin of purchase preference agree to match the L1 price, then the order/contract shall be awarded to the original L1 Bidder.

12. The 'Class-I & II local supplier' should provide a "Self Certification" along with technical offer indicating that the item offered meets the minimum local content [as per Sl. No.(3)] as called for in the tender and provide the percentage of local content along with details of the location(s) at which the local value addition is made. In case of two bid tenders, it is mandatory to indicate compliance to MLC(minimum Local Content) in technical bid zone.

13. The ink-signed certificate shall be provided on vendors letter head along with the offer (in case of online tender, copy of ink-signed certificate shall be uploaded along with your offer under concerned tab. Original in Hard copy shall be produced on request). In case of non-submission of certificate, the purchase preference shall not apply.

14. The margin of Purchase Preference shall be up to 20%.

15. The Public Procurement (Preference to Make in India), Order 2017 issued by Govt. of India indicates that if there are any general or specific restrictive clauses to restrict participation of Indian companies in those countries procurement tenders, reciprocity clause need to be invoked as per the order. Hence, if ISRO or Govt. of India come across that Indian suppliers of an item are not allowed to participate and / or compete in procurement by your government, the bid submitted by you will be not be considered and excluded from eligibility for procurement. Please note this point.

16. Works means all works as per Rule 130 of GFR- 2017, and will also include 'turnkey works'. Works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts.

3. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER (IG)

1. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of

nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

(d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

2. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer. (d) Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

3. ACCEPTANCE OF STORES:

(a) The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b) It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c) If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d) If the whole or any part of the stores supplied are rejected in accordance with Clause No. (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

4. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

5. a) Your offer should be valid for 90 days from the date of opening of the tender.

b) Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

6. DESPATCH: The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

7. d) The term "Purchase Order" shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

8. GUARANTEE & REPLACEMENT:

(a) The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b) For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c) If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d) Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e) The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f) To fulfill guarantee conditions outlined in (a) to (e) above, the Contractor shall, at the option of the

Purchaser, furnish a Bank Guarantee (as prescribed by the Purchaser)

9. **PACKING FORWARDING & INSURANCE:** The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

10. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.

11. **PRICES:** Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

12. REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals.

13. Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes/duties.

14. **SECURITY DEPOSIT:** Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, "Security" and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause regarding Delivery. (b) hereof and/or to recover from the Contractor, damages arising from such cancellation.

15. TERMS & CONDITIONS OF TENDER

16. **TEST CERTIFICATE:** Wherever required, test certificates should be sent along with the despatch

documents.

17. The authority of the person signing the tender, if called for, should be produced.

18. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

19. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

20. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

21. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

22. The term Purchaser shall mean the President of India or his successors or assigns.

23. The term "Stores" shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

C. Bid Templates

C.1 Technical Bid - Supply, installation, testing and commissioning of IP Based CCTV System & Accessories

1. Network switch - 8-port 100/1G UTP L2 PoE Switch with 2x1G SFP Uplinks - Spares

Item specifications for Network switch

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	Layer 2 Manageable switch	Yes / No / Explain		
2	No of Ports	Minimum 8 PoE based 100/1G Ethernet Ports with 2 Gig SFP uplinks	Yes / No / Explain		
3	Switching capacity	Non-blocking switching backplane of min 20 Gbps and a throughput capacity of min 14 Mpps.9K Jumbo Frames	Yes / No / Explain		
4	Power supply	230 V/ AC 50Hz	Yes / No / Explain		
5	Power Budget	120W or higher	Yes / No / Explain		
6	Security	ACL, DHCP (server, relay, client), Private VLAN, Authentication (MAC, Web and IEEE 802.3x), LLDP-MED, SSLv2 and SSLv3	Yes / No / Explain		

7	L2 Features	a. SNMPv1,v2 & v3/RMON/BOOTP/Telnet/Web b. Network management protocols c. Port trunking d. Spanning tree, Priority tags e. VLAN Tagging f. Flow controls g. MAC Based Network Access control all the license for protocols & features should be perpetual & enabled from day 1	Yes / No / Explain		
8	Management	CLI, GUI, Telnet,SSH	Yes / No / Explain		
9	Certifications	BIS certification	Yes / No / Explain		
10	Accessories	Rack mounting hardware including connecting cables with Indian Standard plug tops. For ease of integration, all switches should be of same OEM	Yes / No / Explain		
11	Temperature	0°C to +60°C	Yes / No / Explain		

2. Installation and Commissioning by interfacing with existing video management system

3. UTP Patch Cords - Cat6 UTP Patch Cord 1 meter

Item specifications for UTP Patch Cords

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Connector type	RJ-45 Cat 6 or higher	Yes / No / Explain		
2	Capacity	100/1000Base T	Yes / No / Explain		
3	Standard	TIA Standard	Yes / No / Explain		
4	Material	LSZH Type	Yes / No / Explain		

5	Temperature	0 deg to 60 deg	Yes / No / Explain		
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4. CAMERA - Outdoor Network Bullet camera - Spares

Item specifications for CAMERA

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Image Sensor	CCD/CMOS	Yes / No / Explain		
2	Lens type	Motorized Focus Zoom lens	Yes / No / Explain		
3	Varifocal	3 - 12mm or better	Yes / No / Explain		
4	Resolution	4MP or higher	Yes / No / Explain		
5	Frame rate	30fps	Yes / No / Explain		
6	IR Range	30m or better	Yes / No / Explain		
7	Minimum Illumination	0.05 lux color/0 lux with IR LED on.	Yes / No / Explain		
8	Web interface	Camera should have web interface to configure and control	Yes / No / Explain		
9	Network Interface	10/100 RJ45	Yes / No / Explain		
10	Video Compression	H.265 or better	Yes / No / Explain		
11	Video streaming	Multi-stream with variable/ configurable frame rate & bit rate for preview and recording H.265 or better	Yes / No / Explain		
12	Privacy masks	4 or more	Yes / No / Explain		
13	Signal to Noise ratio	>= 50dB or better	Yes / No / Explain		
14	Security	Password protection, User access logs.	Yes / No / Explain		

15	Supported protocols	IPv4/v6, HTTP, FTP, SMTP, UPnP, SNMP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, HTTPS, NTP,, TLS, SSH, QoS, etc	Yes / No / Explain		
16	Users	4 or more	Yes / No / Explain		
17	Power	PoE 802.3af/at Standard	Yes / No / Explain		
18	Mounting	Ceiling / Wall-mount	Yes / No / Explain		
19	Casing and protection	IK 10 rated Vandal resistant and IP 66	Yes / No / Explain		
20	Certifications	BIS certification	Yes / No / Explain		
21	Operating Temperature	0°C to + 50°C	Yes / No / Explain		
22	Accessories	Mounting accessories and connector kits, User Manual, installation and management tools	Yes / No / Explain		
23	Compatible standard and protocol	ONVIF profile S & G support	Yes / No / Explain		
24	Local storage	Populated with SD/SDHC/SDXC 128GB	Yes / No / Explain		

5. PATCH CORD - Fiber Patch Cords LC-LC 2m

Item specifications for PATCH CORD

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Connector type	LC LC SMF Duplex Fiber	Yes / No / Explain		
2	Type	LSZH 9/125um	Yes / No / Explain		
3	Color	Yellow	Yes / No / Explain		
4	Wavelength	1300nm - 1550nm	Yes / No / Explain		

5	Attenuation	0.25dB/km at 1550nm 0.35dB/km at 1310nm	Yes / No / Explain		
6	Temperature	0 deg to 60 deg	Yes / No / Explain		

6. Network switch - 8-port 100/1G UTP L2 PoE Switch with 2x1G SFP Uplinks

Item specifications for Network switch

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	Layer 2 Manageable switch	Yes / No / Explain		
2	No of Ports	Minimum 8 PoE based 100/1G Ethernet Ports with 2 Gig SFP uplinks	Yes / No / Explain		
3	Switching capacity	Non-blocking switching backplane of min 20 Gbps and a throughput capacity of min 14 Mpps.9K Jumbo Frames	Yes / No / Explain		
4	Power supply	230 V/ AC 50Hz	Yes / No / Explain		
5	Power Budget	120W or higher	Yes / No / Explain		
6	Security	ACL, DHCP (server, relay, client), Private VLAN, Authentication (MAC, Web and IEEE 802.3x), LLDP-MED, SSLv2 and SSLv3	Yes / No / Explain		

7	L2 Features	a. SNMPv1,v2 & v3/RMON/BOOTP/Telnet/Web b. Network management protocols c. Port trunking d. Spanning tree, Priority tags e. VLAN Tagging f. Flow controls g. MAC Based Network Access control all the license for protocols & features should be perpetual & enabled from day 1	Yes / No / Explain		
8	Management	CLI, GUI, Telnet,SSH	Yes / No / Explain		
9	Certifications	BIS certification	Yes / No / Explain		
10	Accessories	Rack mounting hardware including connecting cables with Indian Standard plug tops. For ease of integration, all switches should be of same OEM	Yes / No / Explain		
11	Temperature	0°C to +60°C	Yes / No / Explain		

7. Data Line Surge Protectors - Cat 6 UTP Surge protector

Item specifications for Data Line Surge Protectors

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Type	CAT6, industrial grade PoE Compatible	Yes / No / Explain		
2	peak surge current	6KA	Yes / No / Explain		
3	Maximum rated load current	1A	Yes / No / Explain		
4	Voltage protection level	20V	Yes / No / Explain		
5	Connector Type	Shielded RJ-45 Jacks	Yes / No / Explain		

6	Operating Temperature	0°C to +60°C	Yes / No / Explain		
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8. UTP cable - Cat6 Outdoor UTP cable of 305m

Item specifications for UTP cable

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	type	Category 6 Outdoor cable & LSZH 1000Base T Transmission	Yes / No / Explain		
2	Standard	TIA	Yes / No / Explain		
3	Color	Grey preferred	Yes / No / Explain		
4	Conductor	24AWG	Yes / No / Explain		
5	Temperature	0 deg to 60 deg	Yes / No / Explain		
6	Laying	Should be laid through wall with suitable PVC casing and cappings	Yes / No / Explain		

9. RACKS - 9U Network Rack with accessories

Item specifications for RACKS

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Compliance	Standard for compliance Conforming to DIN41494 and current industry practices	Yes / No / Explain		
2	Cooling Option	Cooling fans	Yes / No / Explain		
3	Dimension	19", 9Ux600x500 mm	Yes / No / Explain		
4	Cable Manager	1U, 19"-1 No	Yes / No / Explain		
5	ROD Loops	4Nos	Yes / No / Explain		

6	PDU	Octagonal Socket 6 x 5/15 Amp with 16 Amp MCB - 1 No	Yes / No / Explain		
7	Accessories	Device Mounting kit for 5 Devices,Rack mounting kit	Yes / No / Explain		
8	Installation	Wall mount installation with necessary wall mounting kit	Yes / No / Explain		

10. TRANSCEIVER -Single mode 1G SFP LC LX Transceiver -Spares

Item specifications for TRANSCEIVER

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Connector type	LC	Yes / No / Explain		
2	Standards	Support 802.3z, SFP	Yes / No / Explain		
3	data rate	Continuous Speed 1000Base-LX	Yes / No / Explain		
4	Fiber Type	SMF	Yes / No / Explain		
5	Wavelength	1310 nm	Yes / No / Explain		
6	Transmission Distance	~10KM	Yes / No / Explain		
7	Operating Temperature	0°C to + 60°C	Yes / No / Explain		
8	Compatibility	Should be compatible with all devices with leading switch manufacturers like cisco,juniper,allied telesis etc.	Yes / No / Explain		

11. Patch Panel - 16 Port UTP loaded Patch Panel

Item specifications for Patch Panel

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Connector type	RJ-45 Cat 6 or higher	Yes / No / Explain		

2	Capacity	16 -Port Loaded	Yes / No / Explain		
3	Identification	ID Plate PVC transparent color with paper	Yes / No / Explain		
4	Material	Phosphor Bronze with Nickel Plated	Yes / No / Explain		
5	Panel	RAL 9005 standard	Yes / No / Explain		

12. CAMERA - Outdoor Network Bullet camera

Item specifications for CAMERA

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Image Sensor	CCD/CMOS	Yes / No / Explain		
2	Lens type	Motorized Focus Zoom lens	Yes / No / Explain		
3	Varifocal	3 - 12mm or better	Yes / No / Explain		
4	Resolution	4MP or higher	Yes / No / Explain		
5	Frame rate	30fps	Yes / No / Explain		
6	IR Range	30m or better	Yes / No / Explain		
7	Minimum Illumination	0.05 lux color/0 lux with IR LED on.	Yes / No / Explain		
8	Web interface	Camera should have web interface to configure and control	Yes / No / Explain		
9	Network Interface	10/100 RJ45	Yes / No / Explain		
10	Video Compression	H.265 or better	Yes / No / Explain		
11	Video streaming	Multi-stream with variable/ configurable frame rate & bit rate for preview and recording H.265 or better	Yes / No / Explain		

12	Privacy masks	4 or more	Yes / No / Explain		
13	Signal to Noise ratio	>= 50dB or better	Yes / No / Explain		
14	Security	Password protection, User access logs.	Yes / No / Explain		
15	Supported protocols	IPv4/v6, HTTP, FTP, SMTP, UPnP, SNMP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, HTTPS, NTP,, TLS, SSH, QoS, etc	Yes / No / Explain		
16	Users	4 or more	Yes / No / Explain		
17	Power	PoE 802.3af/at Standard	Yes / No / Explain		
18	Mounting	Ceiling / Wall-mount	Yes / No / Explain		
19	Casing and protection	IK 10 rated Vandal resistant and IP 66	Yes / No / Explain		
20	Certifications	BIS certification	Yes / No / Explain		
21	Operating Temperature	0°C to + 50°C	Yes / No / Explain		
22	Accessories	Mounting accessories and connector kits, User Manual, installation and management tools	Yes / No / Explain		
23	Compatible standard and protocol	ONVIF profile S & G support	Yes / No / Explain		
24	Local storage	Populated with SD/SDHC/SDXC 128GB	Yes / No / Explain		

13. TRANSCEIVER - Single mode 1G SFP LC LX Transceiver

Item specifications for TRANSCEIVER

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Connector type	LC	Yes / No / Explain		
2	Standards	Support 802.3z, SFP	Yes / No / Explain		

3	data rate	Continuous Speed 1000Base-LX	Yes / No / Explain		
4	Fiber Type	SMF	Yes / No / Explain		
5	Wavelength	1310 nm	Yes / No / Explain		
6	Transmission Distance	~10KM	Yes / No / Explain		
7	Operating Temperature	0°C to + 60°C	Yes / No / Explain		
8	Compatibility	Should be compatible with all devices with leading switch manufacturers like cisco,juniper,allied telesis etc.	Yes / No / Explain		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Warranty	3 years Onsite warranty	Yes / No / Explain		
2	Integration	All the cameras supplied by vendor should be integrated with the existing video management system. License for integration of cameras in the VMS will be provided by the department.	Yes / No / Explain		
3	Delivery	Within 45 days from the date of PO including commissioning of the system	Yes / No / Explain		
4	Installation	1).Network Configuration , mounting of cameras ,UTP cabling & integration of cameras with VMS are in the scope of tender. 2).Fixing of network racks , network switch configuration, connectivity between network switches are in department scope.	Yes / No / Explain		

5	Breakdown calls	Vendor has to attend any number of calls during the warranty period with in 24 hours from the time of intimation	Yes / No / Explain		
6	Periodic maintenance	Vendor has to conduct quarterly periodic maintenance and submit the report to the contact person identified in the department as and when required.	Yes / No / Explain		
7	Payment	Payment will be processed within 30 days after installation & commissioing of the system.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Data sheet of quoted products

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Taxes and other costs, if any:	Yes / No / Explain	
2	Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
3	Delivery Terms: FOR-VSSC	Yes / No / Explain	
4	Delivery Period:	Yes / No / Explain	
5	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	
6	Warranty:	Yes / No / Explain	
7	Performance Bank Guarantee (PBG) Bank Guarantee @ 3% of Order Value valid till the completion of warranty period plus 2 months claim period to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of warranty obligations, PBG will be forfeited).	Yes / No / Explain	

8	Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt and acceptance of item at our site. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER).	Yes / No / Explain	
9	Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) More than 20% but less than 50% : Class-II local supplier. c) Less than or equal to 20% : Non-local supplier. Mention your category.	Yes / No / Explain	
10	Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.	Yes / No / Explain	
11	The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer.	Yes / No / Explain	
12	PO Placement Address (with Name and Contact Details of sales person concerned).	Yes / No / Explain	
13	Any Other Terms	Yes / No / Explain	
14	Offer Validity	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Network switch - 8-port 100/1G UTP L2 PoE Switch with 2x1G SFP Uplinks - Spares	2.00 Nos.		-		
2	Installation and Commissioning by interfacing with existing video management system	1.00 Lot		-		
3	UTP Patch Cords - Cat6 UTP Patch Cord 1 meter	84.00 Nos.		-		
4	CAMERA - Outdoor Network Bullet camera - Spares	4.00 Nos.		-		
5	PATCH CORD - Fiber Patch Cords LC-LC 2m	28.00 Nos.		-		
6	Network switch - 8-port 100/1G UTP L2 PoE Switch with 2x1G SFP Uplinks	14.00 Nos.		-		
7	Data Line Surge Protectors - Cat 6 UTP Surge protector	42.00 Nos.		-		
8	UTP cable - Cat6 Outdoor UTP cable of 305m	6.00 Rolls		-		
9	RACKS - 9U Network Rack with accessories	14.00 Nos.		-		

10	TRANSCEIVER -Single mode 1G SFP LC LX Transceiver - Spares	4.00 Nos.		-		
11	Patch Panel - 16 Port UTP loaded Patch Panel	14.00 Nos.		-		
12	CAMERA - Outdoor Network Bullet camera	42.00 Nos.		-		
13	TRANSCEIVER - Single mode 1G SFP LC LX Transceiver	28.00 Nos.		-		

Common charges (Applicable for all items)

Freight charge	
P&F Charges	