

Bid Document
for
Installation of Robust CCTV Surveillance System
at
DoT HQ, Sanchar Bhawan



Government of India
Ministry of Communications
Department of Telecommunications
Sanchar Bhawan, 20, Ashok Road
New Delhi – 110001

(Visit us at <http://www.dot.gov.in>)


Price: Rs. 500/- only

Date of publishing: **06/04/2021**

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Section –I (Notice Inviting Tender)

 <p style="text-align: center;">सत्यमेव जयते</p>	DEPARTMENT OF TELECOMMUNICATIONS SANCHAR BHAWAN, 20, ASHOK ROAD NEW DELHI - 110001 NOTICE INVITING TENDER (For publishing in the Website)	
Office of Issue	Department of Telecommunications IT Cell, Sanchar Bhawan New Delhi-110001	
Tender No.	1-8/2016-17Misc.IT-I	
Tender Forms Available at Website	http://eprocure.gov.in/eprocure/app	
Date and Time of Issue/Publishing	06-04-2021	09:00 Hours
Document Download/Sale Start Date & Time	06-04-2021	09:00 Hours
Pre Bid Meeting	13-04-2021	11:00Hours Conference Room, 13th Floor Sanchar Bhawan Delhi-110001
Bid Submission Start Date & Time	16-04-2021	15:00 Hours
Bids Submission Last Date & Time	28-04-2021	15:30 Hours
Date and Time of opening of Technical bid	29-04-2021	15:30 Hours
Place of opening of Technical bid	Sanchar Bhawan, 20-Ashoka Road, New Delhi - 110001	
Date of opening of Financial bid	Shall be intimated later	

- 1.1 On behalf of The President of India, e-Tenders through e-procurement portal (CPPP) are invited for installation of CCTV Surveillance system in DoT HQ, Sanchar Bhawan from Central Public Sector Undertakings (CPSUs) having experience in System Integration for CCTV Surveillance Systems such as Electronics Corporation of India Limited (ECIL), Bharat Electronics Limited (BEL), ITI Limited, Telecommunications Consultant India Limited (TCIL), Central Electronics Limited (CEL) and Broadcast Engineering Consultants India Limited (BECIL). Approximate quantities of Items likely to be required for project are as per Annexure-A. Prices quoted should be F.O.R. Destination, inclusive of all levies & taxes and packing & forwarding charges etc.
- 1.2 Bidders shall have to deposit Earnest Money Deposit (EMD) (Bid security)/ Performance Bank Guaranty (PBG) from any scheduled bank at Delhi in favour of "Pay & Accounts Officer, Department of Telecom HQ, New Delhi-110001".
- 1.3 Bid Document is available on CPP Portal Website <http://eprocure.gov.in/eprocure/app>. An account payee Demand Draft/ Bankers' cheque of Rs. 500/- from any Scheduled Bank payable at Delhi should be enclosed in favour of "Pay & Accounts Officer, Department of Telecom HQ, New Delhi-110001" as Tender fee. The bid received without tender fee will not be accepted.

Annexure "A"

SN	Description Technical Specifications as per Annexure "I"	Quantity (In unit if otherwise stated)
A	CCTV Systems	
1	CCTV Camera: - Fixed (Dome Type Camera)	109
2	CCTV Camera: - (Box Type Fixed Camera)	30
3	Server for NVMS (for Primary, Secondary and Management)	3
4	Video Management Client Desktop	11
5	Rack Mountable Video Management Storage	1
6	Video Management software (License 139 camera) (for primary and secondary (failover) server) (139*2=278)	278
7	Windows software for desktop	11
8	Windows Server License	3
9	License for secondary (failover) server	1
10	Module for management server	1
11	Antivirus for Desktop	11
B	Active Networking Components	
1	Layers 3 Switch (Core Switch)	2
2	PoE Switch (8 Port)	32
3	SFP Module	70
C	Passive Networking Components	
1	UTP Cable CAT 6A	3000 Meters
2	UTP Cable CAT 6 Information Outlet (Single)	140
3	UTP Cable CAT 6 Patch Cord 3 Feet	150
4	UTP Cable CAT 6 Patch Cord 7 Feet	40
5	Wire Manager	10
6	Optical Fiber Patch Cord, SM, SC to LC-3 Meter	150
7	Fiber Optic Outdoor Armoured 12 core (SM)	4500 Meters
8	LIU, 24 Fiber, Rack mount (LC)/(SM)	6
9	LIU, 12 Fiber, Rack mount (SC)/(SM)	32
10	SC Pigtails (SM)	250
11	19" Wall mount, 19U Indoor Rack	1
12	19" Floor Standing, 36U Rack	1
13	24 Port Jack Panel (UTP CAT 6)	11
14	27 U Rack for secondary (fail-over) server	1
15	27 U Rack for Management server	1
16	Supply of Channel 15x15	1000 Meters
17	Supply of Channel 45x25	1000 Meters

SN	Description Technical Specifications as per Annexure "I"	Quantity (In unit if otherwise stated)
18	Supply of Channel 30x25	1000 Meters
19	Supply of Channel 45x45	1000 Meters
20	Conduit Pipe 40mm	3000 Meters
21	Supply of 2" HDPE Pipe	500 Meters
22	18 MM Reinforced Flexible Pipe	500 Meters
23	25 MM Reinforced Flexible Pipe	500 Meters
24	50 MM Reinforced Flexible Pipe	200 Meters
25	Junction Box (9U Rack)	32
26	Power cable 2.5mm	4500 Meters
27	6A Single Pole MCB	7
D		
	Control Room	
1	LED 42" Display	11
2	Online UPS 5 KVA	5
3	Modular Control room including AC, Sitting system etc.	Lot
E		
	Installation, Commissioning and CAMC	
1	Installation, Testing & Commissioning of IP CCTV surveillance system and LAN system and other electric misc. works. (All Active and Passive COMPONENT)	Lot
2	Comprehensive onsite support charges for CCTV surveillance system and LAN system	5 Years

Section 2 - Letter to the Prospective Bidders

Government of India
Ministry of Communication
Department of Telecommunications
(Information Technology Cell)

.....
File No.: 1-8/2016-17/Misc.IT-I

Dated: 06-04-2021

To,

As per list attached,

Subject: Invitation for Technical and Commercial Proposal (Two Bid System) for Installation of CCTV Surveillance system in the Department of Telecommunication, Sanchar Bhawan, New Delhi.

Sir,

With reference to above subject, the instant proposal pertains to Supply, Installation, Testing, Commissioning and Training and Comprehensive Annual Maintenance contract for Security and Surveillance in Department of Telecommunication, Sanchar Bhawan, New Delhi.

2. It has been decided with the approval of the competent authority to install CCTV and Surveillance System in the Sanchar Bhawan. Accordingly, Department of Telecommunication has decided to invite techno commercial proposal from CPSUs i.e. Broadcast Engineering Consultants India Limited (BECIL), Electronics Corporation of India Limited (ECIL), Bharat Electronics Limited (BEL), ITI Limited, Telecommunications Consultant India Limited (TCIL) and Central Electronics Limited (CEL) in accordance with OM No D32016/3/2015/(SSO(Pt) dated 20th April 2015 issued by Ministry of Home Affairs. The NoC room of the size of approx. 20 feet x 15 feet is proposed on the mezzanine/ ground floor.

3. The technical specifications for various components for supply, installation, testing and commissioning (SITC) work of CCTV Surveillance System are based on the specifications given by MHA as per their OM No. D32018/3/2015/SSO(Pt.) dated 20-04-2015 and further upgraded, based on the current industry standards and requirements of DoT. The specifications are mentioned in Annexure "I" in the tender document. These are minimum technical specifications. The products with proven higher specifications and at competitive price are allowed.

4. The details of components for installation of CCTV surveillance system for which minimum technical specifications have been mentioned in Annexure "I" are given below: -

- (i) IP based Fixed Box Camera
- (ii) IP based Fixed Dome Camera

- (iii) Network Video Management Software (NVMS)
- (iv) Control Room IT Infrastructure: -
 - a. Server – Network Video Management Server
 - b. Storage – Video Management Storage
 - c. Desktop – Video Management Client Access Desktop
 - d. Online UPS for Cameras and server with minimum 30-minute back up
 - e. Display – LED Display of 42” – Nos dependent on cameras etc.
- (v) Active Network Components
 - a. Layer 3 Switch (Core Switch)
 - b. PoE Switch
 - c. Firewall and Security
 - d. Passive Network Components etc.

5. In this regard, a joint survey has been carried out by some Government Agencies to analyse the exact quantity of different components of CCTV System to be installed at Department of Telecommunication HQ, Sanchar Bhawan, New Delhi.

Further, the aforesaid CPSUs were asked to provide financial estimates based on the Bill of Quantity (BoQ) for Supply, Installation, testing and commissioning (SITC) of the proposed work of IP Based CCTV and Surveillance System. It is also advised to visit Department of Telecommunication (Sanchar Bhawan) for:

- a) Site Survey before bidding
- b) To see the site conditions before quoting the price.
- c) To design the solution as per site requirement.
- d) To understand the site condition.

6. Scope of Works: The Scope of work has been covered in the attached BoQ and specifications as per Annexure “P”. However, the Successful Bidder shall be responsible to complete the works in all respects and in doing so, provide/ supply all facilities not covered above, but nevertheless required for the satisfactory performance of complete system. Details Scope of job includes survey of all the locations, delivering the Bill of Quantities (BOQ) to locations, Joint Material inspection at site with Location in Charge/ His representative, Installation/ Commissioning, imparting Training to location staff & Handing over the site to the Location in Charge.

7. The bidder is required to quote for the complete work, though Department of Telecommunication reserve the right to award the work in full or in part or even cancel the tender.

8. Since this is a turnkey project and the bidder quoting for only one part or partially of the project shall not be considered.

9. Quotation should be submitted in Two Bid Packet duly sealed. Online bids under two duly sealed envelope/ cover system comprising of (1) The Technical bid and (2) Financial bid should be submitted online on CPP Portal Website <http://eprocure.gov.in/eprocure/app>. The

bidders must carefully follow the instructions to submit the bids online through the Central Public Procurement Portal for e-Procurement at <http://eprocure.gov.in/eprocure/app>.

10. The Technical and Financial bids should be quoted separately and marked as “Technical bid” and “Financial bid” as applicable.

11. Technical bid should contain technical details and attached relevant supporting documents only such as technical specifications, technical compliance, data sheets, Un-Priced BoQ. No financial/prices to be quoted in technical bid.

12. Financial Bid: Prices and all taxes to be quoted in the sheet of the financial bid.

13. Quotations shall be liable to be rejected if there is/ are any deviation(s) from the specifications.

14. Any deviations whether technical or commercial stated anywhere in the Quotation shall not be considered and may render the bid non-responsible and liable to be rejected.

15. Quotation should be valid till 180 days from the due date.

16. Warranty: One year from the date of Complete System Handover to the Department of Telecommunication. The Comprehensive Annual Maintenance is also required for the five years for complete material installed. The warranty and Comprehensive Annual Maintenance should begin after successful operation of CCTV surveillance system for a period of minimum one month under the supervision of the staff of DoT trained by vendor.

17. Basis of price: The offer should clearly indicate units and rates. Prices should be submitted on F.O.R. SITE.

18. The approved vendor has to quote considering the location of the cameras and other accessories necessary for successful design, supply, installation testing commissioning of CCTV Surveillance System in Department of Telecommunication, Sanchar Bhawan, New Delhi. The accessories shall include but not limited to the indicated here. The accessories are indicative and it is intended to install the system in successful manner. Attached Annexure for Bill of material is an indicative list of items that may be used for successful installation.

19. Termination for Default: Department of Telecommunication may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Bidder, terminate the Contract in whole or in part: If the Bidder fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser; or If the Bidder fails to perform any other obligation(s) under the Contract. If the Bidder, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract. For the purpose of this clause: “Corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution or a contract to the detriment of the borrower and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the borrower of the benefits of free and open competition. In the event

the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or services similar to those undelivered, and the Bidder shall be liable to the Purchaser for any excess costs for such similar Goods or services. However, the Bidder shall continue the performance of the Contract to the extent not terminated. The contractor/bidder shall not display the photographs & content of the work and also will not take advantage through publicity of the work without written permission of Department of Telecommunication. Noncompliance to this may result in the blacklisted of firm.

20. Force Majeure: In no event shall either Party have any liability for failure to comply with this Agreement, if such failure results directly from the occurrence of any contingency beyond the reasonable control of the Party, including, without limitation, strike or other labour disturbance, riot, major power failure, war, natural calamities including but not limited to floods, earthquakes, fire, volcanic eruptions, epidemics, National Emergency, interference by any government or governmental agency, embargo, seizure, or enactment or abolition of any law, statute, ordinance, rule, or regulation (each a " Force Majeure Event"). In the event that either Party is unable to perform any of its obligations under this Agreement because of a Force Majeure Event, the Party who has been so affected shall as soon as may be, after coming to know of the Force Majeure Event, inform the other Party and shall take reasonable steps to resume performance as soon as may be after the cessation of the Force Majeure Event. If the period of non-performance due to a Force Majeure Event exceeds thirty (30) days, the Party whose ability to perform has been so affected may, by giving written notice, terminate this Agreement.

21. Bidders shall have to deposit EMD/ bid security/ Performance Bank Guaranty (PBG) in the form of Demand Draft on any scheduled bank at Delhi in favour of "Pay & Accounts Officer, Department of Telecom HQ, New Delhi-110001". Bid Document is available on CPP Portal Website <http://eprocure.gov.in/eprocure/app>. An account payee Demand Draft/ Bankers' cheque of Rs. 500/- from any Scheduled Bank payable at Delhi should be enclosed in favour of "Pay & Accounts Officer, Department of Telecom HQ, New Delhi-110001" as Tender fee amount.

(Nandkishor Bijaraniyan)
Assistant Director General (IT-III),
DoT HQ, New Delhi
Ph. No. 2303-6011

Section 3: Check List

3.1 **Technical Bid:** Following documents are required to be submitted mandatorily in the Technical Bid. In case of failure to submit the documents as mentioned here, the bid would be summarily rejected. Bidders are advised to read the instructions carefully in relevant section before submitting the documents. If the submitted documents are found to be at deviation from the documents asked for in the Tender Document than the bid will be summarily rejected without any correspondence with the bidder.

3.2 Bidders are advised to prepare the bid and mark the page numbers in the bid and mentioned the same in the check list below.

SN	Technical Bid Documents	Submitted (Yes/ No)	Page Numbers	Remarks
1	Cost of Tender Document or Exemption Certificate along with Self Certification (As per Clause 21 of Section 2).			
2	Bid Security or Exemption Certificate along with Self Certification (As per Clause 3 of Section 4 and Annexure B).			
3	Technical Bid Performa (Annexure B).			
4	Tender Acceptance Letter (Annexure F).			
5	Tender Document signed and stamped on each page as a mark of acceptance.			
6	Letter for Authorization for attending Bid opening (Annexure G).			
7	Experience Certificate as per Clause 2.15 of Section 4.			
8	Undertaking from Bidder as per Clause 2.13 of Section 4.			
9	Un Priced BoQ duly filled in (Annexure C).			
10	Clause by clause Compliance to the technical specification for each parameter of specifications mentioned in Annexure-I.			
11	Undertaking from Bidder that there is no deviation from the specification mentioned in Annexure I (Deviation(s) if any may be clearly mentioned in the Undertaking).			
12	Data Sheets for offered Solution.			
13	Manufacturer Authorization Certificate (MAF) from OEM's for: -			
i.	CCTV Camera			

ii.	Network Video Management Software (NVMS)			
iii.	Network Switch			
iv.	Server			
v.	Workstation			
vi.	UPS			
vii.	Optical Fiber Cable			
14	Make in India Certificate from offered OEM in Un Priced BoQ for following Products: -			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
iii.	Network Switch			
iv.	Server			
v.	Workstation/ Desktop Computers			
vi.	UPS			
vii.	Optical Fiber Cable			
15	Undertaking from Offered OEM's having its service and support center in India for:			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
iii.	Network Switch			
iv.	Server			
v.	Workstation/ Desktop Computers			
vi.	UPS			
16	CCTV Cameras, Server, Workstation shall have quality system compliance and shall be STQC/ TEC/ BIS etc certified as applicable to the equipment. All supportive documents should be attached with the technical bid.			
i.	CCTV Camera			
ii.	Server			
iii.	Workstation/ Desktop Computers			
17	"No Malicious Code Certificate" from offered OEM for CCTV Camera and Network Video Management Software (NVMS).			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			

18	Undertaking from Offered OEM of CCTV Cameras and Network Video Management Software (NVMS) that these products are ONVIF compatible. ONVIF is an open industry forum that provides and promotes standardized interfaces for effective Interoperability of IP-based physical security products.			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
19	Declaration from CCTV OEM that MAC address of proposed CCTV Cameras are registered in the name of OEM supplying the cameras.			
20	Signed declaration on letterhead from offered OEM for CCTV Camera and NVMS that offered camera models & NVMS software are integral and support the configurations of the system.			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
21	Items of which specifications are not mentioned in tender document should be of ISI/Industrial standards marked or according to applicable Governments Norms.			
22	Any other document (s) as required in the bid elsewhere. (Please mentions details)			

3.3 Financial Bid: The Financial Bid is to be submitted as per Annexure D

Section 4 : General Terms & Conditions Of Contract

- 1.0 **Bid Submission Documents:** - Technical bid contains the documents, which would enable the bidder to qualify the technical stage of bid such as Pre-Qualification documents, Technical Compliance, Data Sheets, Un Priced BOQ etc. **No Financial/ prices to be quoted in technical bid. If financial price is quoted in Technical Bid than the bid would be summarily rejected as non-responsive.**

Bidders are advised to read the instructions carefully in relevant section before submitting the documents. If the submitted documents are found to be at deviation from the documents asked for in the Tender Document than the bid will be summarily rejected without any correspondence with the bidder.

- 1.1 Cost of Tender Document or Exemption Certificate along with Self Certification (As per Clause 21 of Section 2).
- 1.2 Bid Security or Exemption Certificate along with Self Certification (As per Clause 3 of Section 4 and Annexure B).
- 1.3 Technical Bid Performa (Annexure B).
- 1.4 Tender Acceptance Letter (Annexure F).
- 1.5 Tender Document signed and stamped on each page as a mark of acceptance.
- 1.6 Letter for Authorization for attending Bid opening (Annexure G).
- 1.7 Experience Certificate as per Clause 2.15 of Section 4.
- 1.8 Undertaking from Bidder as per Clause 2.13 of Section 4.
- 1.9 Un Priced BoQ duly filled in (Annexure C).
- 1.10 Clause by clause Compliance to the technical specification for each parameter of specifications mentioned in Annexure-I.
- 1.11 Undertaking from Bidder that there is no deviation from the specification mentioned in Annexure I (Deviation(s) if any may be clearly mentioned in the Undertaking).
- 1.12 Data Sheets for offered Solution.
- 1.13 Manufacturer Authorization Certificate (MAF) from OEM's for: -
 - i. CCTV Camera
 - ii. Network Video Management Software (NVMS)
 - iii. Network Switch
 - iv. Server
 - v. Workstation
 - vi. UPS
 - vii. Optical Fiber Cable

Bidders are advised to mention only one OEM in the Unpriced BoQ against each Product. However, if the Bidder is offering a product from more than one OEM than he has to submit MAF from each OEM offered by Bidder. Otherwise, the bid would be considered as non-responsive and will be Summarily rejected.

1.14 Make in India Certificate from offered OEM in Un Priced BoQ for following Products: -

- (i) CCTV Camera
- (ii) Network Video Management Software (NVMS)
- (iii) Network Switch
- (iv) Server
- (v) Workstation
- (vi) UPS
- (vii) Optical Fiber Cable

Bidders are advised to mention only one OEM in the Unpriced BoQ against each Product. However, if the Bidder is offering a product from more than one OEM than he has to submit Make in India Undertaking from each OEM offered by Bidder. Otherwise, the bid would be considered as non-responsive and will be Summarily rejected.

1.15 Undertaking from Offered OEM's having its service and support center in India for: -

- (i) CCTV Camera
- (ii) Network Video Management Software (NVMS)
- (iii) Network Switch
- (iv) Server
- (v) Workstation
- (vi) UPS

1.16 CCTV Cameras, Server, Workstation shall have quality system compliance and shall be STQC/ TEC/ BIS etc certified as applicable to the equipment. All supportive documents should be attached with the technical bid.

1.17 "No Malicious Code Certificate" from offered OEM for CCTV Camera and Network Video Management Software (NVMS).

1.18 Undertaking from Offered OEM of CCTV Cameras and Network Video Management Software (NVMS) that these products are ONVIF compatible. ONVIF is an open industry forum that provides and promotes standardized interfaces for effective Interoperability of IP-based physical security products.

1.19 Declaration from CCTV OEM that MAC address of proposed CCTV Cameras is registered in the name of OEM supplying the cameras.

1.20 Signed declaration on letterhead from offered OEM for CCTV Camera and NVMS that offered camera models & NVMS software are integrable and support the configurations of the system.

1.21 Items of which specifications are not mentioned in tender document should be of ISI/Industrial standards marked or according to applicable Governments Norms.

2.0 Prequalification Documents: -

2.1. Signed and Stamped on each page of Tender Document as an acceptance.

- 2.2. The tender is in two parts (TECHNICAL AND FINANCIAL) for installation of CCTV Surveillance System in Ministry of Communications, Sanchar Bhavan by Central Public Sector Undertakings (CPSUs) only who have adequate experience for installation and day to day maintenance of CCTV Cameras.
- 2.3. Manufacture Authorization Letter required to be submitted confirming that bidder is authorized to quote the products of OEM & product should comply with the requirement of this Ministry as per specifications given in the tender document.
- 2.4. An Undertaking from camera and Network Video Management Software (NVMS) OEM's having it's service and support center in India.
- 2.5. Offered cameras and NVMS software repair/troubleshooting shall be supported from OEM's India, the letter stating the same from OEM's with service center address shall be submitted.
- 2.6. Signed declaration on letterhead from the bidder of the offered surveillance camera & NVMS shall be submitted confirming that offered camera models & NVMS software are integrable and support the configurations of the system.
- 2.7. Cameras shall have quality system compliance and shall be STQC/TEC/BIS etc. certified as applicable to the equipment. All supportive documents should be attached with the technical bid.
- 2.8. NVMS (Centralized Software) should have capability of being scalable and can add up to 300 Cameras (For Viewing and recording). An undertaking by Bidder in this regards is to be submitted.
- 2.9. Data Sheets of each item in respect of which rates are quoted should also be attached.
- 2.10. Technical Compliance sheet should also be attached from bidders' end giving undertaking that the items to be provided by them comply with the specifications provided in the tender.
- 2.11. Bidder should clearly mention if there is any deviation from the specification or else no deviation certificate may be enclosed.
- 2.12. The Bidder should not have been debarred/black-listed by any Central/State Government Agency. An undertaking by bidder in this regards to be submitted.
- 2.13. Bidder has to submit the "No Malicious Code Under taking Letter" for the CCTV cameras and VMS.
- 2.14. Since this is a turnkey project hence L-1 will be decided on the basis of overall lowest rates received by any PSU in Financial Bid.
- 2.15. The PSUs should have completed at least three CCTV projects in office complexes having minimum value of Rs. 1.50 Crore during the last three financial years.

Or

Should have completed at least one CCTV project in office complexes having minimum value of Rs. 1.00 Crore during the last two financial years.

Copies of experience certificate of equivalent document in support of satisfactory completion of CCTV installation from clients shall be provided. The experience certificate should be signed by an authorized signatory.

- 2.16. Items of which specifications are not mentioned in tender document should be of ISI/Industrial standards marked or according to applicable Governments Norms.
- 2.17. The offered CCTV cameras and Video Management Software (VMS) should be ONVIF compatible. ONVIF is an open industry forum that provides and promotes standardized interfaces for effective interoperability of IP-based physical security products. Undertaking in this regard is to be submitted by the bidders.
- 2.18. EMD as desired in the tender.
- 2.19. Details of Quoted OEMs in the Financial Bid products have to be furnished by the bidder.
- 2.20. This is a two-envelope bid. At first stage, technical bid shall be opened and evaluated. In second stage Financial Bids shall be opened of those who qualify at Technical stage. Since this is a turnkey project hence L-1 will be decided on the basis of overall lowest rates received by any PSU in Financial Bid.

3.0 Earnest Money Deposit: -

There shall not be any Earnest Money deposit, however to safeguard against a bidder's withdrawing or altering its bid during the bid validity period, it is clarified that if bidder withdraws or modifies its bids during the validity of the bid than he will be barred from participation in the bids with DoT for a period of three years. An undertaking for the same will be given by Bidders as per annexure B.

4.0 Technical Clarification: -

Bidder desiring any technical clarification may contact ADG(IT-III)/ Director (IT-III), Room No. 804/ 1207, Department of Telecommunication, Sanchar Bhawan, New Delhi 110001 between 10:00 Hours to 17:00 Hours on any working day up to ten days before the bid closing date. However, the tender submission and tender closing dates will remain same.

5.0 Delivery Schedule: -

- 5.1 Bidder will ensure that the entire work (SITC work) should be completed within the stipulated period of time i.e. within 90 days of award of work order (based on the site readiness).
- 5.2 If the firm is failed to complete the project within three months from the date of award of contract, a penalty shall be imposed as per following manner:-
 - i. For 1 to 10 days of delay LD should be @ 1% of value of the contract

- ii. For 11 to 20 days of delay LD should be @ 2% of value of the contract
- iii. For 21 to 30 days of delay LD should be @ 3% of value of the contract
- iv. For 31 to 45 days of delay LD should be @ 5% of value of the contract.
- v. Beyond 45 days of delay Security deposit will be forfeited and department would be free to award remaining work to other agency at the cost of vendor.

6.0 Training: -

- i. The scope of work envisages that the Bidder shall undertake to train the staff nominated by Department in different aspects of equipment, functioning, testing, operation & administration free of any charge from DoT HQ.
- ii. The PSU shall at every stage of installation; testing and commissioning provide all facilities for adequate training to the staff nominated by the Department in Ministry of Communication, Sanchar Bhawan who may be deputed to work on the project.
- iii. The system Administration and Maintenance Training program, at the user's location, will be structured so as to train 10 (Ten) officers/officials nominated by department.
- iv. The training programs should be of at least two days and at least 6 hours per day.
- v. Bidder will provide complete details on the training programs to be offered including:
 - (a) Material to be covered.
 - (b) Number of hours of training per operator of technician for each specific course
 - (c) Supporting documentation to be provided.
- vi. Commissioning of project would not be linked with the Training

7.0 Terms of payments: -

- i. Payment of 60% of the tender price will be released on delivery of material, on pro rata basis after receipt acknowledgement/ note of goods received by end user.
- ii. Payment of 20% of the tender price be released on Installation and Commissioning of entire system.
- iii. Payment of balance 20% of the tender price will be subjected to adjustment of any over payment and completion of work in all respect i.e. Commissioning, testing, handing over and successful operation for a period of one month by staff of DoT trained by vendor. Any shortcoming found during this period will be removed by vendor at his own expenses.

- iv. The payment will be made on quarterly basis every year after satisfactory completion of the jobs for subsequent years for Comprehensive Annual Maintenance Contract (CAMC).
- v. After commissioning of the system, bidder would inform buyer in writing for taking over and training. It shall be the responsibility of buyer to take over the system and depute officers for training within one month. In buyer fails to do so within stipulated time than system would be considered to have been made-over for the purpose of releasing the payments as per Para 7.0 (iii) above.

8.0 Performance Security (PBG): -

Performance Security PBG (3% of the contract value) should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the Bidder including warranty obligations. The same will be released only after expiration of the validity. The bank guarantee is to be given as per the format given at Annexure J.

9.0 Terms & Conditions: -

- i. PSU will ensure that the entire work should be completed within the stipulated period of time i.e. within 90 days of award of work order.
- ii. PSU will bear the responsibility to bring the items and installation the same in the office.
- iii. The Bidder may be asked demonstration/ Proof of Concept (POC) of the Quoted Camera, NVMS and other equipment's during evaluation of the technical bid in case required at NO COST NO COMMITMENT BASIS.
- iv. Department of Telecommunications reserves the right to reject any quotation completely or partially without assigning any reason.
- v. Department of Telecommunications also reserves the right to cancel the contract before installation, if the items of the PSU are not found satisfactory.
- vi. The payment charged by the bidder for maintenance (comprehensive onsite support charges for CCTV Surveillance system and LAN system for 5 years) will be released quarterly on pro-rata basis in every year and any deficiency found in the service, up to 5% penalty on the cost of yearly maintenance charges should be imposed to the Contractor.
- vii. Quotation should be valid till 180 days from the due date.
- viii. Force Majeure: In no event shall either Party have any liability for failure to comply with this Agreement, if such failure results directly from the occurrence of any contingency beyond the reasonable control of the Party, including, without limitation, strike or other labor disturbance, riot, major power failure, war, natural calamities including but not limited to floods, earthquakes, fire,

volcanic eruptions, epidemics, National Emergency, interference by any government or governmental agency, embargo, seizure, or enactment or abolition of any law, statute, ordinance, rule, or regulation (each a " Force Majeure Event"). In the event that either Party is unable to perform any of its obligations under this Agreement because of a Force Majeure Event, the Party who has been so affected shall as soon as may be, after coming to know of the Force Majeure Event, inform the other Party and shall take reasonable steps to resume performance as soon as may be after the cessation of the Force Majeure Event. If the period of non-performance due to a Force Majeure Event exceeds thirty (30) days, the Party whose ability to perform has been so affected may, by giving written notice, terminate this Agreement.

- ix. Extension: - The Comprehensive Annual Maintenance Contract (CAMC) may be extended in favor of firm by the competent authority of this Ministry on the request of firm, on the same rates, terms & conditions as in the present contract on the basis of satisfactory service for further one year.
- x. Items mentioned in [A], [B], [C] & [D] of Annexure-C of tender document are approximate quantity. CCTV System and other items mentioned in [A], [B] & [D] may be increased or decreased up to 25%. Items mentioned in [C] may be increased and decreased up to 50%. The payment will be made as per actual basis.
- xi. Quotations shall be liable to be rejected if there is/are any deviation(s) from the Specifications.
- xii. Any deviations whether technical or commercial stated anywhere in the Quotation shall not be considered and may render the bid non-responsive and liable to be rejected.
- xiii. It is obligatory for the PSU to keep one dome & one box camera in spare at any time on site during whole period of contract to replace any faulty camera, immediately, if any.
- xiv. The contractual firm will provide Comprehensive Annual Maintenance Contract for CCTV surveillance system and LAN system up to five years.
- xv. Utmost care shall be taken for uploading Bill of Quantity & Price Bid and any change/ modification of the price schedule shall render it unfit for bidding.
- xvi. Bidders shall submit their bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the last date and time for bid submission as per Server System Clock. The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the last moment.
- xvii. The bidder has to ensure that the products and services being offered meet the

latest guidelines issued by Government of India under Make in India policy. The latest guidelines under Make in India Policy for public procurements are as per DPIIT OM No. P-45021/2/2017-PP(BE-II) dated 4th Jun, 2020 and 16th Sep, 2020, MEITY Notification No. W-43/4/2019-IPHW-MeitY dated 7th Sp, 2020) and Department of Telecommunications Gazette Notification no. 18-10/2017-IP dated 29.08.2018. The make in India compliance shall be ensured line item wise for all major components as mentioned in the bid.

10. ARBITRATION: -

- i. In the event of any question, dispute or difference arising under this agreement or in connection there-with (except as to matter the decision of which is specifically provided under this agreement), the same shall be referred to sole arbitration of the Chairman, Telecom Commission (DoT) or in case his designation is changed or his office is abolished then in such case to the sole arbitration of the officer for the time being entrusted whether in addition to his own duties or otherwise than the functions of the Chairman, Telecom Commission (DoT) or by whatever designation such officers may be called (hereinafter referred to as the said officer) and if the Chairman, Telecom Commission (DoT), or the said officer is unable or unwilling to act as such to the sole arbitration or some other person appointed by the Chairman, Telecom Commission (DoT), or the said officer. The agreement to appoint an arbitrator will be in accordance with the Arbitration and Conciliation Act, 1996. There will be no objection to any such appointment on the ground that the arbitrator is DOT Employee or that he has to deal with the matter to which the agreement relates or that in the course of his duties as DOT Employee he has expressed views on all or any of the matter under dispute. The award of the arbitrator shall be final and binding on the parties. In the event of such arbitrator to whom the matter is originally referred, being transferred or vacating his office or being unable to act for any reasons whatsoever such Chairman, Telecom Commission (DoT) or the said officer shall appoint another person to act as arbitrator in accordance with terms of the agreement and the person so appointed shall be entitled to proceed from the stage at which it was left out by his predecessors.
- ii. The arbitrator may from time to time with the consent of parties enlarge the time for making and publishing the award. Subject to aforesaid Indian Arbitration and Conciliation Act 1996 and the Rules made there under, any modification thereof for the time being in force shall be deemed to apply to the arbitration proceeding under this clause.
- iii. The venue of the arbitration proceeding shall be the Office of the Chairman, Telecom Commission (DoT) at New Delhi or such other Places as the arbitrator may decide.

11.0 Other Terms of the Tender are: -

(i) Scope of Maintenance:

- a. The contractor shall be responsible for maintenance of all equipment's mentioned in Schedule with a view to provide uninterrupted service of the CCTV System including necessary preventive maintenance, attending to major and minor breakdowns post failure repairs and modifications if any, required for the CCTV system of Ministry of Communication.
- b. The CCTV system installed in Sanchar Bhawan will be monitored round the clock by Control Room staff arranged by DoT. The contractor shall depute only competent and efficient staff for routine preventive maintenance as well as to attend the breakdowns (as and when required/ call basis) to ensure the trouble-free working of CCTV system during warranty and CAMC period.
- c. The Comprehensive Annual Maintenance Contract (CAMC) shall also include the trouble shooting of any network issues arising in the CCTV network.
- d. The service personnel deputed by the contractor shall be well qualified and having enough knowledge in the field of Wireless networking and CCTV System.
- e. Contractor shall provide ID Cards to their engineers and staff authorized to attend the maintenance work so as to facilitate verification by representative of CISF. Communication handed over to the contractor's personnel at site/ office by CCTV control room in-charge shall deem to have reached their office.
- f. The representative of the contractor shall report (as and when required/ call basis) to in-charge of CCTV control room to carry out all necessary inspections/ tests of the system. Rectification of any defects during inspection shall be endorsed in the maintenance register available with In-Charge of CCTV Control Room.
- g. At the end of each major break down repair, contractor's Engineer should prepare a service report and submit the same to the In-Charge Control Room.
- h. All the tools and testing instruments required for checking testing and attending to routine maintenance and breakdowns shall be arranged by the contractor.
- i. The preventive Maintenance shall be carried out once in a month. The contractor shall undertake preventive maintenance of CCTV System in the last week of every month. In addition to the preventive maintenance the contractor shall attend break down calls whenever emergency arises and there will be no limit for such calls.
- j. The components of the equipment will be the whole responsibility of contractor for procurement and replacement as and when required during the period of

AMC.

- k. The contractor's staff will carry the routine spares required for preventive maintenance to ensure minimum down time without any additional cost. In addition to those spares contractor will also arrange other spares if required without any additional charges.
- l. Breakdown call shall be attended with a time frame after getting the message by phone or fax /email. If the repair is major contractor shall provide a standby equipment at contractor cost.
- m. In case of major repairs necessitating removal of the equipment to the contractor's service center, the system or its parts shall be reinstalled at the owner premises after repairing the set-in working condition. Provision of standby camera comes under the scope of contract.
- n. Trained and supervisory control staff shall be permitted to minor urgent changes if required for which suitable log will be maintained by control room staff.
- o. A log book will be maintained in the CCTV room in which day to day failures and problems notices shall be entered and informed to the contractor indicating date and time. The contractor's Engineer/representative has to fill up the log book as per schedule maintenance check-up giving the details as well as corrective measures taken by the contractor's engineers with date and time.
- p. All remedial maintenance of the equipments and its preventive maintenance required periodically shall be provided by the contractor. Such maintenance comes under the scope of contractor. Supply of and fitment of all parts including consumable will need replacement from time to time with understanding that replaced part immediately will become govt. property and the part removed will become contractor's property with condition that the contractor shall use new and unused except those parts which can be reused after required servicing.
- q. The contractors shall ensure that the full configuration of the equipment is in proper working condition, after repair and maintenance.
- r. All minor repairs/services should be made only at Department's premises. As far as possible no equipment will be sent to the contractor's premises for any repair. If at all, it is found necessary to take the equipment to the contractor's premises, the configuration of the equipment in details must be got noted before it is sent out. The items will be taken out only with proper documentation such as materials gate passes and with proper acknowledgements. All endeavors will be made by the contractor to return such items taken out for servicing within a reasonable period of one week Stand by equipment similar to the equipment under service to be provided before taking it out on material gate pass, till the

original component is replaced AT NO EXTRA COST. The contractor is required to record all such issues, returns / replacements of equipment promptly.

- s. In any case where the equipment could not be rectified/ replaced by the firm within the reasonable time, Ministry of Communication reserves the right to get the equipment repaired / replaced through another agency at the risk and cost of the contractor. The contractor will have to bear expenses incurred by the Department on this account. This action will be taken if the equipment is neither rectified/ replaced nor any stand-by is provided even after the reasonable time.
- t. Taking shelter under flimsy reasons such as damage could have been caused by rat bite, power outage, rough handling on the part of the user and similar such reasons, and failing to provide maintenance / replacement support will not be acceptable.
- u. Complete hardware and software support to be extended by the contractor.
- v. Carrying any software changes if required without additional charges with the consent of In-Charge Control Room, Ministry of Communication.
- w. Payment terms:
 - i. Proof of having paid the employers contribution to EPFO/ESIC/Minimum wage proof at NCT of Delhi in respect of skilled manpower posted in DoT for AMC for the quarter for which the bill is submitted for payment. Payment for any quarter shall be made only after receiving the above proof.
 - ii. The Contractor shall have the registration with EPFO and ESIC. The EPF and ESI contribution on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of employer paid by the contractor shall be reimbursed by the Engineer-in-charge to the contractor on actual basis.'
- x. The Contractor shall ensure that the equipment is in good working condition and is with full configuration while handing over at the end of the contract period. In case of odd hour's failures and emergencies even on holidays and Sunday normal service is to be rendered by the contractor. In case the firm fails to rectify the fault in allowable time (i.e. within one 24 Hours) the penalty would be imposed as per following manner: -
 - (i) For 1 to 3 days, system down time, penalty should be @ Rs.2000 per day
 - (ii) For 4 to 7 days, system down time, penalty should be @ Rs.5000 per day
 - (iii) Beyond 7 days, system down time, penalty should be @ Rs.15000 per day

However, it may be noted that over and above the penalty, during the downtime all the responsibilities will lie on the contractor for any security issues happened due to system down.

(ii) Preventive Maintenance: -

- a. Regular preventive maintenance visits shall be made by the firm ONCE IN A MONTH to ensure up keep of the system. Any fault brought to the firm's notice either during such routine calls or otherwise informed by Control Room officials, shall be arranged to be responded with in two hours.
- b. The preventive maintenance of the system should be carried out in the presence of the Control room technical staff. The preventive maintenance of the CCTV System includes cleaning all the equipments, checking the individual I complete performance of equipments of the CCTV System.
- c. The contractor shall ensure the proper working of recording of the video obtained from the CCTV cameras and necessary backup has to be taken in the form of DVD/CD in the regular interval as instructed by Control Room In charge. The provision of DVD/CD shall be in the scope of work of tender.
- d. The service engineer of the contractor attending to the maintenance shall monitor the environment in which the hardware is working and forewarn the control room in charge of any factor detrimental to the satisfactory performance of the hardware.
- e. A schedule for preventive maintenance shall be drawn by the contractor and submitted to the control room in charge well in advance. It will be in such a manner that all the equipment falling within the preview of the contract is covered in a systematic manner.
- f. A separate log book shall be maintained for recording preventive maintenance.

12.0 SITE OF WORK: -

The intending tenderer is advised to study the tender documents, concerned specifications and other instructions carefully. The tenderer shall inspect the proposed site of work and acquaint himself themselves with the site conditions, working hours and all relevant items connected with execution of work. The submission of tender shall be deemed to have been done after careful study and examination of the tender papers with full understanding of the implications thereof.

13.0 MAINTENANCE OF SERVICE REGISTER: -

The contractor shall upkeep the service/ maintenance record for all the units and Peripherals with the following details.

- a. Location of the Unit.
- b. Name of Equipment.
- c. Date of Periodical Maintenance attended.
- d. Due date for next Periodical Maintenance.
- e. Nature of Defective Noticed.
- f. Details of Defect Attended with date.
- g. Name of Service Engineer.
- h. Name of the In-Charge of Ministry of Communication with signature and office seal.

14.0 INSPECTION: -

The contractor shall offer the units for inspection after periodical Maintenance / Service Repair to an authorized representative of and also get a report signed by the concerned Control Room in charge with office seal before submission of bill for quarterly payment from Ministry of Communication (DoT).

15.0 Spare Parts: -

- (i) The L-1 firm to whom the tender will be awarded have to ensure that the spare parts are made available to the buyer on demand on payment basis up to a period of at least eight years from the date of completion of the installation work. Payment to firm for replacing the spare part will be made as per the actual basis at the time of requirement.
- (ii) The Bidder will undertake that supplies of necessary maintenance equipment and spare parts will be made available for all the equipment and the complete System for a period of 5(Five) years on continuing basis.

16.0 Site Preparation: -

- i. The site for installation of the system shall be provided by the Purchaser (DoT) as per the requirement for installation of the system.
- ii. The tentative site plan for installation of Cameras may differ as per actual requirement at the time of installation of the CCTV system.
- iii. The complete installation of the System at the Purchaser's site shall be the responsibility of the PSUs.
- iv. Earthing arrangements for all the equipment shall be the responsibility of the Bidder and to be carried out as per standard procedures.
- v. Responsibility of Completion & Software Optimization: Any fitting or items which may not be specially mentioned in the specifications but which are necessary are to be provided by the PSU without any extra charge for completeness of the work under this Tender.

- 17.0 The firm will ensure that all the work of supply, installation, erection and commissioning of CCTV in Ministry of Communications, Sanchar Bhawan is completed in the prescribed time and in no case the contractor firm may do any activity which may disturb senior officers to work/hamper the official duties of the employees of various Departments in Ministry of Communication, Sanchar Bhawan.
- 18.0 The Department shall have no liability, financial or otherwise, for any harm/ damage/ injury caused to the manpower/machinery deployed by the firm in the course of performing work of this Department. Neither the firm nor its workers shall have any claim on this Department for compensation or financial assistance on this account.
- 19.0 PSU's personnel shall not divulge or disclose to any person any details of office, operation process, technical know-how, security arrangements, administrative and organizational matters as all of these are confidential in nature. It is binding for the PSU not to disclose the networking module of above work and any other information related to this work to any individual/group/firm which may cause harm to the security of Ministry of Communications, Sanchar Bhawan.
- 20.0 PSU shall replace immediately any of its personnel, if they are unacceptable to the User Department/Ministries because of security risk, incompetence, conflict of interests and breach of confidentiality or improper conduct upon receiving a written notice from any of the User Department in Ministry of Communication, Sanchar Bhawan.
- 21.0 PSU shall ensure proper conduct of its personnel in office premises, and enforce prohibition of consumption of alcoholic drinks/drugs, chewing of Paan/ Gutka, smoking, using speakers for listening to music and loitering without any work.
- 22.0 The damage caused, if any, to Government property through the acts of the firm and/or by its workers shall be made good by the agency and decision of the Department in this regard shall be final/binding.
- 23.0 The performance security shall be valid till all contractual obligations are fulfilled by the firm and will be released after two months of the above contract period. The same shall stand forfeited in case of cancellation of the contract for any breach of contract or for any deficiency in the performance noticed during the currency of the contract.

Annexure-B

Technical Bid Performa

Sl. No.	Description	Details to be given by the Bidder
1.	PSU's Name and Full Postal Address	
2.	Name of the representative of the PSU and his Telephone/Mobile No.	
3.	Date of PSU's Registration with details (Copy of registration to be enclosed).	
4.	Sales Tax Number/ GSTIN (whichever is applicable)	
5.	PAN Number	
6.	Service Tax Number/ GSTIN (whichever is applicable)	
7.	Present/past experience in the field (Satisfactory performance certificate from other Departments is to be enclosed)	

Note: All the prequalification documents mentioned in the Para 2 of Terms and Conditions of the contract should also be attached with the technical bid.

It is confirmed that we have fully understood the scope of work and all other requirements for Supply, installation, erection and commissioning of CCTV in Ministry of Communications, Ashoka Road, New Delhi as per the given details in the Tender. We hereby agree to the General as well as Special Terms and Conditions of the Contract as detailed in the tender document. We undertake that the documents enclosed herewith are genuine and no material/facts have been concealed or suppressed. We also undertake that the submitted bid shall not be withdrawn or modified during the validity of the bid and we understand that in case if we withdraw or modify the bid than we shall be barred from participations in future bids with DoT for a period of next 3 years.” We are not debarred / blacklisted by any Government organization in the field of supply, installation, erection and commissioning of CCTV. We also understand that the contract is liable to be cancelled if found to be obtained through fraudulent means or by concealment of information/facts.

This offer is made to be valid for acceptance by your Department within 90 days from the date of opening of the technical bid.

(Signature of authorized representative of the firm)

Stamp/ Seal of the firm

Annexure-C

Un-Priced BOQ

Sl .No.	Description	Qty (In unit)	Quoted OEMs
A	CCTV Systems		
1	CCTV Camera :- Fixed (Dome Type Camera)	109	
2	CCTV Camera :- (Box Type Fixed Camera)	30	
3	Server for NVMS (for Primary, Secondary and Management)	3	
4	Video Management Client Desktop	11	
5	Rack Mountable Video Management Storage	1	
6	Video Management software (License 139 camera) (for primary and secondary (failover) server) (139*2=278)	278	
7	Windows software for desktop	11	
8	Windows Server License	3	
9	License for secondary (failover) server	1	
10	Module for management server	1	
11	Antivirus for Desktop	11	
Total of (A)			
B	Active Networking Components		
1	Layers 3 Switch (Core Switch)	2	
2	PoE Switch (8 Port)	32	
3	SFP Module	70	
Total of (B)			
C	Passive Networking Components		
1.	UTP Cable CAT 6A	3000	
2.	UTP Cable CAT 6 Information Outlet (Single)	140	
3.	UTP Cable CAT 6 Patch Cord 3 Feet	150	
4.	UTP Cable CAT 6 Patch Cord 7 Feet	40	
5.	Wire Manager	10	
6.	Optical Fiber Patch Cord, SM, SC to LC-3 Meter	150	
7.	Fiber Optic Outdoor Armored 12 core (SM)	4500	

8.	LIU, 24 Fiber, Rack mount (LC)/(SM)	6	
9.	LIU, 12 Fiber, Rack mount (SC)/(SM)	32	
10.	SC Pigtails (SM)	250	
11.	19" Wall mount, 19U Indoor Rack	1	
12.	19" Floor Standing, 36U Rack	1	
13.	24 Port Jack Panel (UTP CAT 6)	11	
14.	27 U Rack for secondary (fail-over) server	1	
15.	27 U Rack for Management server	1	
16.	Supply of Channel 15x15	1000	
17.	Supply of Channel 45x25	1000	
18.	Supply of Channel 30x25	1000	
19.	Supply of Channel 45x45	1000	
20.	Conduit Pipe 40mm	3000	
21.	Supply of 2" HDPE Pipe	500	
22.	18 MM Reinforced Flexible Pipe	500	
23.	25 MM Reinforced Flexible Pipe	500	
24.	50 MM Reinforced Flexible Pipe	200	
25.	Junction Box (9U Rack)	32	
26.	Power cable 2.5mm	4500	
27.	6A Single Pole MCB	7	
Total of (C)			
D	Control Room		
1	LED 42" Display	11	
2	Online UPS 5 KVA	5	
3	Modular Control room including AC, Sitting system etc.	Lot	
Total of (D)			
E	Installation, Commissioning and CAMC	Qty.	Unit
1	Installation, Testing & Commissioning of IP CCTV surveillance system and LAN system and other electric misc. works. (All Active and Passive Components)	Lot	Lot
2	Comprehensive onsite support charges for CCTV surveillance system and LAN system	5	year
Total of (E)			

Note: Items mentioned in [A], [B], [C] & [D] are approximate quantity. CCTV System and other items mentioned in [A], [B] & [D] may be increased or decreased up to 25%. Items

mentioned in [C] may be increased and decreased up to 50%. The payment will be made as per actual basis.

Annexure-D
Financial Bid

Sl. No.	Description	Quantity	Unit Price	Total Price	Rate of GST	Amt. of GST	Any other Tax	Total Price (with all Taxes)
1	2	3	4	5	6	7	8	9
A								
1	CCTV Camera :- Fixed (Dome Type Camera)	109						
2	CCTV Camera :- (Box Type Fixed Camera)	30						
3	Server for NVMS (for Primary, Secondary and Management)	3						
4	Video Management Client Desktop	11						
5	Rack Mountable Video Management Storage	1						
6	Video Management software (License 139 camera) (for primary and secondary (failover) server) (139*2=278)	278						
7	Windows software for desktop	11						
8	Windows Server License	3						
9	License for secondary (failover) server	1						
10	Module for management server	1						
11	Antivirus for Desktop	11						

B								
1	Layers 3 Switch (Core Switch)	2						
2	PoE Switch (8 Port)	32						
3	SFP Module	70						
C								
1.	UTP Cable CAT 6A	3000						
2.	UTP Cable CAT 6 Information Outlet (Single)	140						
3.	UTP Cable CAT 6 Patch Cord 3 Feet	150						
4.	UTP Cable CAT 6 Patch Cord 7 Feet	40						
5.	Wire Manager	10						
6.	Optical Fiber Patch Cord, SM, SC to LC-3 Meter	150						
7.	Fiber Optic Outdoor Armored 12 core (SM)	4500						
8.	LIU, 24 Fiber, Rack mount (LC)/(SM)	6						
9.	LIU, 12 Fiber, Rack mount (SC)/(SM)	32						
10.	SC Pigtails (SM)	250						
11.	19" Wall mount, 19U Indoor Rack	1						
12.	19" Floor Standing, 36U Rack	1						
13.	24 Port Jack Panel (UTP CAT 6)	11						
14.	27 U Rack for secondary (fail-over) server	1						
15.	27 U Rack for Management server	1						

16.	Supply of Channel 15x15	100 0						
17.	Supply of Channel 45x25	100 0						
18.	Supply of Channel 30x25	100 0						
19.	Supply of Channel 45x45	100 0						
20.	Conduit Pipe 40mm	300 0						
21.	Supply of 2" HDPE Pipe	500						
22.	18 MM Reinforced Flexible Pipe	500						
23.	25 MM Reinforced Flexible Pipe	500						
24.	50 MM Reinforced Flexible Pipe	200						
25.	Junction Box (9U Rack)	32						
26.	Power cable 2.5mm	450 0						
27.	6A Single Pole MCB	7						
D								
1.	LED 42" Display	11						
2.	Online UPS 5 KVA	5						
3.	Modular Control room including AC, Sitting system etc.	Lot						
E	Installation, Testing & Commissioning of IP CCTV surveillance system and LAN system and other electric misc. works. (All Active and Passive Components)	Lot						
X	Total Amount of above items (A+B+C+D+E) (in Rs)							

F								
1	Comprehensive onsite support charges for CCTV surveillance system and LAN system	5						
Y	Total Amount of above items (E) (In Rs)							
Total Amount of above items (X+Y) (In Rs)								

Total price of Tender in words Rupees

Annexure – “E”

Pre-Contract Integrity Pact

General

This pre-bid pre contract Agreement (hereinafter called the integrity pact is made on _____day of the month of _____2021, between, on one hand, the president of India acting through Secretary, Department of Telecommunications , Government of India (hereinafter called the “BUYER” which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the first part and M/s _____represented by Shri _____, chief executive officer (hereinafter called the “BIDDER/SELLER” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the second part.

WHEREAS the BUYER proposes to procure (Name of the Store /Equipment /item and the BIDDER /SELLER is willing to offer /has offered the store and

WHEREAS the BIDDER is a private company /public company /Government /undertaking /partnership/ registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a ministry / Department of the Government of India /PSU performing its functions on behalf of the president of India.

Now, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence /prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to: -

Enabling the BUYER to obtain the desired said store/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling the BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereby agree to enter into this integrity pact and agree as follows: -

1.Commitments of the BUYER

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept directly or accept, directly or through intermediaries, any bribe, consideration, gift, reward favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation contracting or implementation process related to the contract.

1.2 The BUYER will, during the pre- contract stage treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to

any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitment as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official (s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

3. COMMITMENT OF BIDDERS

The BIDDERS commit itself to all take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following: -

3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation contracting and implementation of the contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material benefit or other advantage commission fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the contract forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or for bearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.

3.3 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

3.4 BIDDERS shall disclose the payment to be made by them to agents/brokerage or any other intermediary, in connection with this bid/contract.

3.5 The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized Government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has such any amount been paid promised or intended to be paid to any such Individual, firm or company in respect of any such intercession, facilitation or recommendation.

3.6 The BIDDER, either while presenting the bid or during pre- contract negotiations or before signing the contract shall disclose any payment he has made, is committed to or intends to make to officials of the BUYER or their family members agents, brokers or any other intermediaries in connection with the contract details or/and the services agreed upon for such payments.

3.7 The bidder will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to other, any information provided by the BUYER as part of the business deal, relationship regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the action mentioned above.

3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officer of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.

The term 'relative' for this purpose would be as defined in section 6 of the company's act 1956.

4. Previous transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any public sector enterprise in India or any government Department in India that justify BIDDER'S exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender propose or the contract, if already awarded. Can be terminated for such reason.

5. Earnest money (security deposit)

5.1 While submitting commercial bid, the BIDDER shall give an undertaking to safeguard the BUYER against withdrawal of bid by the BIDDER during the validity of bid.

5.2 The Earnest money/ Security deposit shall be valid up to a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.

5.3 In case of the successful BIDDER a clause would also be incorporated in the article pertaining to performance bond in the purchase contract that the provisions of sanction for violation shall be applicable for, forfeiture of performance bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanctions for violations

6.1 Any breach of the aforesaid provisions by the BIDDER or any one Employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required: -

(i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceeding with the other BIDDER(s) would continue.

(ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit /Performance bond (after the contract is signed shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

(iv) To recover all sum already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing prime lending rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encase the advance bank guarantee and performance bond/ warranty bond, if furnished by the BIDDER in order to recover the payments, already made by the BIDDER, along with interest.

(vi) To cancel all or any other contracts with the BIDDER, the BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/ rescission and the BUYER shall be entitled to deduct the amount so payable from the money (s) due to the BIDDER.

(vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the Buyer.

(viii) To recover all sum paid in violation of this pact by bidder (s) to any middleman or agent or broker with a view to securing the contract.

(ix) In case where irrevocable letters of credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) Forfeiture of performance bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at Para 6.1(i) to (x) of this pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in chapter IX of the Indian penal code, 1860 or prevention of corruption.

6.3 The decision of the BUYER to the effect that breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent monitor (s) appointed for the purpose of this pact.

7. Fall Clause:

The BIDDER undertakes that it has not supplied not supplying similar product /system or subsystem at a price lower than that offered in the present bid in respect of any other minister/Department of the government of India or PSU and if it is found at any stage that similar product/system or sub system was supplied by the BIDDER to any other minister/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the different in the cost would be refund by the BIDDER to the BUYER, if the contract has already been concluded.

8. Independent Monitors

8.1 The BUYER has appointed Independent Monitors (here either referred to as Monitors) for this pact in consultation with the central vigilance commission. Names and Addresses of the Monitors are given as under: -

- i. Name: - Shri Arvind Kumar Arora, Address: - B-333, Chittaranjan Park, New Delhi - 110019
- ii. Name: - Shri Pradeep Kumar Gupta, Address: - T-17, Green Park Extension, New Delhi- 110016 Chittaranjan Park, New Delhi - 110019

8.2 The task of the Monitors shall be to review Independent and objectively,

Whether and to what extent the parties comply with the obligations under this pact.

8.3 The Monitors shall not be subject to instruction by the representatives of the parties and perform their functions neutrally and independently.

8.4 Both the parties accept that the Monitors have the access all the documents relating to the project/procurement, including minutes of meeting.

8.5 As soon as the monitor notice, or has reason to believe, a violation of this pact, he will so inform the Authority designated by the BUYER.

8.6 The BIDDER (s) accepts that the Monitor has the right to access without restriction to all project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the monitor, upon his request and demonstration of a valid interest,

unrestricted and unconditional access to his project documentation. The same is applicable to sub Bidders. The monitor shall be under contractual obligation to treat the information and documents of the BIDDER/subBidder(s) with confidentiality.

8.7 The BIDDER will provide to the Monitor sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the parties the parties will offer to the monitor the option to participate in such meetings.

8.8 The monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/ within 8 to 10weeks from the date of reference or intimation to him by the BUYER/ BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provision of this pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and place of jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

11. Other Legal Actions

The actions stipulated in this Integrity pact are without prejudice to any other legal action that may follow in accordance with provisions of the extent law in force relating to any civil or criminal proceedings.

12. Validity

The validity of this Integrity Pact shall be from date of this signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/SELLER, including warranty period, whichever is later, In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid, the reminder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at _____ on _____

BUYER
Name of the Officer

BIDDER
CHIEF EXECUTIVE OFFICER/ Designation
Deptt. /MINISTRY/PSU

Witness

1. _____

2. _____

Witness

1. _____

2. _____

Provisions of these clause would need to be amended/ deleted in line with the policy of the BUYER in regard to involvement of India agents of foreign Bidders.

Annexure –F
Tender Acceptance Letter

(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

_____ as

per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. In case any provisions of this tender are found violated, then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal

Annexure– G
Letter Of Authorisation For Attending Bid Opening

Subject: Authorization for attending bid opening on ----- (date) in the tender no. -----
----- of DoT.

Shri/ Ms. ofis hereby
authorised to attend the bid opening for the tender mentioned above on behalf of
.....(Bidder) in order of preference given below.

Specimen Signature of person
authorized to attend the bid
opening

Signatures of bidder

Or Officer authorized to sign the bid
documents on behalf of the bidder.

Note: 1. Only one representative will be permitted to attend bid opening.

2. Permission for entry to the hall where bids are opened may be refused in case authorization
letter as above is not produced before the bid opening committee.

Annexure “H

Location Wise Distribution of Cameras

SN	Floor	Location / Floor	Dome Camera	Box Camera
1	Basement Area	Near Lift 1/2	1	
2	Basement Area	Lift Lobby	1	
3	Basement Area	Temple Area	1	
4	Basement Area	Near A/C Plant	1	
5	Basement Area	Goods Lift (Lift No 7)	1	
6	Ground Floor	Area	1	
7	Ground Floor	Reception	1	
8	Ground Floor	Library	1	
9	Magazine Floor	Distribution Area - Library	1	
10	Magazine Floor	LAN NOC	1	
11	1	Lift 5/6 Open Area -	1	
12	1	Goods Lift Lobby Area -	1	
13	1	Stair Case Near Men’s Washroom	1	
14	1	Main Central Lobby		2
15	1	Lift 1-4 Open Area	1	
16	1	Small Area Near Lift 1-4	1	
17	1	Stair Case Near Women Washroom	1	
18	1	Important Rooms/Office	7	
19	2	Lift 5/6 Open Area -	1	
20	2	Goods Lift Lobby Area -	1	
21	2	Stair Case Near Men’s Washroom	1	
22	2	Main Central Lobby		2
23	2	Lift 1-4 Open Area	1	
24	2	Small Area Near Lift 1-4	1	
25	2	Stair Case Near Women Washroom	1	
26	2	Important Rooms/Office	3	
27	3	Lift 5/6 Open Area -	1	
28	3	Goods Lift Lobby Area -	1	

29	3	Stair Case Near Men's Washroom	1	
30	3	Main Central Lobby		2
31	3	Lift 1-4 Open Area	1	
32	3	Small Area Near Lift 1-4	1	
33	3	Stair Case Near Women Washroom	1	
34	3	Important Rooms/Office	3	
35	4	Lift 5/6 Open Area -	1	
36	4	Goods Lift Lobby Area -	1	
37	4	Stair Case Near Men's Washroom	1	
38	4	Main Central Lobby		2
39	4	Lift 1-4 Open Area	1	
40	4	Small Area Near Lift 1-4	1	
41	4	Stair Case Near Women Washroom	1	
42	5	Lift 5/6 Open Area -	1	
43	5	Goods Lift Lobby Area -	1	
44	5	Stair Case Near Men's Washroom	1	
45	5	Main Central Lobby		2
46	5	Lift 1-4 Open Area	1	
47	5	Small Area Near Lift 1-4	1	
48	5	Stair Case Near Women Washroom	1	
49	6	Lift 5/6 Open Area -	1	
50	6	Goods Lift Lobby Area -	1	
51	6	Stair Case Near Men's Washroom	1	
52	6	Main Central Lobby		2
53	6	Lift 1-4 Open Area	1	
54	6	Small Area Near Lift 1-4	1	
55	6	Stair Case Near Women Washroom	1	
56	7	Lift 5/6 Open Area -	1	
57	7	Goods Lift Lobby Area -	1	
58	7	Stair Case Near Men's Washroom	1	
59	7	Main Central Lobby		2
60	7	Lift 1-4 Open Area	1	
61	7	Small Area Near Lift 1-4	1	
62	7	Stair Case Near Women Washroom	1	
63	8	Lift 5/6 Open Area -	1	
64	8	Goods Lift Lobby Area -	1	
65	8	Stair Case Near Men's Washroom	1	
66	8	Canteen Area	1	2
67	8	Lift 1-4 Open Area	1	
68	8	Small Area Near Lift 1-4	1	

69	8	Stair Case Near Women Washroom	1	
70	8	Kitchen	1	
71	9	Lift 5/6 Open Area -	1	
72	9	Goods Lift Lobby Area -	1	
73	9	Stair Case Near Men's Washroom	1	
74	9	Main Central Lobby		2
75	9	Lift 1-4 Open Area	1	
76	9	Small Area Near Lift 1-4	1	
77	9	Stair Case Near Women Washroom	1	
78	10	Lift 5/6 Open Area -	1	
79	10	Goods Lift Lobby Area -	1	
80	10	Stair Case Near Men's Washroom	1	
81	10	Main Central Lobby		2
82	10	Lift 1-4 Open Area	1	
83	10	Small Area Near Lift 1-4	1	
84	10	Stair Case Near Women Washroom	1	
85	11	Lift 5/6 Open Area -	1	
86	11	Goods Lift Lobby Area -	1	
87	11	Stair Case Near Men's Washroom	1	
88	11	Main Central Lobby		2
89	11	Lift 1-4 Open Area	1	
90	11	Small Area Near Lift 1-4	1	
91	11	Stair Case Near Women Washroom	1	
92	12	Lift 5/6 Open Area -	1	
93	12	Goods Lift Lobby Area -	1	
94	12	Stair Case Near Men's Washroom	1	
95	12	Lift 1-4 Open Area	1	
96	12	Small Area Near Lift 1-4	1	
97	12	Stair Case Near Women Washroom	1	
98	12	Working Area		4
99	13	Lift 5/6 Open Area -	1	
100	13	Goods Lift Lobby Area -	1	
101	13	Stair Case Near Men's Washroom	1	
102	13	Main Central Lobby		2
103	13	Lift 1-4 Open Area	1	
104	13	Small Area Near Lift 1-4	1	

105	13	Stair Case Near Women Washroom	1	
106	14	Lift 5/6 Open Area -	1	
107	14	Goods Lift Lobby Area -	1	
108	14	Stair Case Near Men's Washroom	1	
109	14	Main Central Lobby		2
110	14	Lift 1-4 Open Area	1	
111	14	Small Area Near Lift 1-4	1	
112	14	Stair Case Near Women Washroom	1	
			109	30
		Total including Dome and Box Camera	139	

Annexure-“I”

Technical Specification

Minimum technical specifications of various components of the CCTV Surveillance System

1(a) IP Based Fixed Box Camera

2.1 Mega Pixel Full HD1080 Fixed (BOX) Camera Specifications				
SN	Specification	Description	Compliance (Yes/No)	Remarks
1.	Image sensor	1/3” Progressive scan CMOS sensor with WDR		
2.	Resolution	1920x1080p		
3.	Mega Pixel	2.1 Mega Pixel Full HD		
3a.	Lens	5.50mm varifocal,		
4.	Minimum Illumination	Colour-0.5 Lux @ 30IRE, Black & White-0.05 Lux @ 30IRE,		
5.	Signal to Noise Ratio	>=50dB, Back light compensation ON/OFF selectable		
6.	Compression	Dual H.264 compression standards.		
7.	Lens mount	CS/ C type		
8.	Day/Night Camera	Auto day/night configuration		
9.	FPS	Min 25 Frames per second for both the streams with Full HD @ 25 FPS @ H.264 +D1 @ 25FPS @ H.264 on two streams respectively		
10.	Shutter Speed	1 s to 1/10,000 or better		
11.	Tamper Detection	ON/OFF		
12.	Bit Rate	64 Kbps to 8 Mbps. Camera should able to give stream in both CBR and VBR. With CBR maximum of @2Mbps bit rate. Shall work on less than 3Mbps average for Full HD @ 25FPS @ VBR		
13.	Streaming	Camera should support unicast and multicast streams		
14.	Web interface	Camera should have web interface to configure and control		
15.	Text superimposing	Super imposing the title and date & time on the video		

16.	Alarm input	One Dry alarm input & Output		
17.	Edge Storage	Provision for 64GB SD Card.		
18.	Ethernet, Network protocols	10/100 Tx Auto sensing (half/full duplex). 802.3af class 3 PoE, IPv4/v6, Unicast, Multicast, RTP, TCP, UDP, HTTP, IGMP, ICMP, DHCP, DNS, ONVIF		
19.	Discovery Interface	OEM interface to detect the Cameras automatically and configure network settings.		
20.	Housing	Vandal resistant Aluminium enclosure with IP66, Sunshield, built in Heater & Blower		
21.	Power requirement	PoE and Local power supply for camera, Heater and Blower as per manufacturer standard.		
22.	Operating Temperature	0 to 50 C Degrees		
23.	Operating Humidity	20 to 80% RH non- condensing		
24.	Regulatory Approvals	FCC, CE, RoHS, UL/EN		
25.	ONVIF Compliant	The offered CCTV should be ONVIF Profile S, G, Q & T compliant and Quoted model should be listed on ONVIF Site.		
26.	Quality Certification	CCTV OEM should have ISO 9001, 14001, 27001 Certificate.		
27.	MAC Address Registration	MAC address of proposed CCTV cameras should be registered in the name of OEM supplying the cameras.		

1(b) IP Based Fixed Dome Camera

2.1 Mega Pixel Full HD1080 Fixed Dome Camera Specifications				
SN	Specification	Description	Compliance (Yes/No)	Remarks
1	Image Sensor	1/3" Progressive scan CMOS sensor, WDR.		
2	Mega Pixel	2.1 Mega Pixel Full HD.		
3	Resolution	1920 x 1080 or better and camera resolution can be configurable in all standards resolutions like VGA, 4CIF/D1, HD 720p		
4	Illumination	Colour-0.5 Lux @30IRE, Black & White-0.5 Lux @30IRE, IR sensitive, Back light compensation ON/OFF selectable		
5	Signal to Noise Ratio	>=50dB		
6	Compression	Dual H.264 compression standards.		
7	Varifocal lens	Focal length: 5mm – 50mm 2.8mm – 12mm		
8	Lens mount	Integrated		
9	Day/Night Camera	Should have auto day/ night configuration, with auto AGC.		
10	FPS	Min 25 Frames per second for both the streams with Full HD@ 25FPS @ H.264 + D1@ 25FPS @H.264 on two streams respectively		
11	Shutter speed	1 s to 1/10,000 s or better		
12	Digital Zooming	Up to 4 X digital zoom the live video.		
13	Streams	Camera should have minimum dual stream, and each stream can be individually configurable, and can able to choose stream for live and recording.		
14	Streaming	Camera should support unicast and multicast streams.		
15	Bit Rate	Camera should able to give stream in both CBR and VBR. With CBR maximum of @2Mbps bit rate. Shall work on less than 3Mbps average for Full HD @ 25FPS @ VBR.		
16	Web Interface	Camera should have web interface to configure and control		
17	Alarm input	One Dry alarm input & Output		
18	Text superimposing	Camera should support the super impose the title and date & time on the video		

19	Ethernet Network protocols	10/100 Tx Auto sensing (half/full duplex). 802.3af PoE, IPv4/v6, SNMP, IGMP, DHCP.		
20	Housing	Vandal resistant Aluminium enclosure with IP66,IK 10 Indoor Housing		
21	Power Requirement	PoE and local power supply for camera, Heater and Blower per manufacturer standard		
22	Operating Temperature	0 to 50 Degrees C		
23	Operating Humidity	20 to 80% RH non-condensing		
24	Regulatory Approvals	FCC, CE, RoHS, UL/EN		
25	ONVIF Compliant	The offered CCTV should be ONVIF Profile S,G,Q &T compliant and Quoted model should be listed on ONVIF Site.		
26	Quality Certification	CCTV OEM should have ISO 9001, 14001, 27001 Certificate.		
27	MAC Address Registration	MAC address of proposed CCTV cameras should be registered in the name of OEM supplying the cameras.		

3. Network Video Management Software (NVMS)

The Network Video Management software to be used for the system should be able to meet the following minimum functional requirements:

SN	Specification	Compliance (Yes/ No)	Remarks
1	VMS Management		
2	Failover Support		
3	Multicasting and Multi-streaming		
4	SNMPv3 Support		
5	NAT Firewall Support		
6	Watchdog		
7	Logs		
8	VMS Client Viewer (Operator) Features		
9	Video Cart Facility		
10	VMS Storage		
11	Video Content Analytics (VCA)		
12	Hardware & Software		
13	Video Standards and Formats		
14	Behaviour Detection		
15	PTZ Tracking		
16	Tampering Detection		
17	Event Generation and Receipt		
18	Rules Capabilities		
19	Counting Capabilities		
20	Management		
21	Viewing Search Results Capabilities		
22	Investigation and Forensic Analysis		
23	NVMS OEM should have the Following Certificates: ISO 9001, 27001, ISO 14001, CMMI Level-3		
24	The Network Video Management Software (NVMS) Application & Video Analytics Software (VCA) Software Application should be from the Same Manufacturer		
25	The offered NVMS should be ONVIF Profile S,G,Q &T compliant and Quoted model should be listed on ONVIF Site		

4. Server:- Network Video Management Server

Specification		Compliance (Yes/ No)	Remarks
CPU	Intel®Xeon®8 CORE Gold 6226R Processor or equivalent E5-2690 16-Core 2.9GHz		
2 No. Of Processor	2(TWO)		
Memory Size	128GB (min 8 Gbx16 or16GBx8 or 32GBx4 combination), 1333 2666 MHz or higher, upgradable to 768 GB or higher		
Storage Details	Hot pluggable SAS HDD 5X600 GB, 10K RPM or higher with min 06 no or higher internal Drive bays.		
RAID Controller	SAS Raid Controller with RAID 0/1/1+0/5 with 512MB or higher battery backed cache.		
Optical drive	DVD combo drive		
Chassis type	19” Rack mountable Server of maximum 2U size with Sliding rails and fittings to install into a Rack.		
Power Supply & FAN Redundant	Hot Swappable Power supply & Fan		
Network Interface	Min 4 no Gigabit Ethernet ports or more		
I/O Slots	Min 6 PCI/PCIE/PCIX slots or higher		
Compatible OS	Microsoft Windows Server, LINUX		
Management	OEM Server Management Software		
IPV6 Compliance	The Hardware should be IPV6 Compliant ready		
Monitor & KBD/Mouse	18.5” Screen & USB Keyboard & Mouse		

5.Desktop:- Video Management Client Access Desktop Work station

Specification		Compliance (Yes/ No)	Remarks
Desktop	Processor i7 Intel Xeon Bronze 3206R or equivalent, 8-Core 1.9 GHz, RAM 4 16 GB, Hard disk 1TB, SSD 128 GB, Display 18.5 23 Inch, Keyboard, Mouse, OS Windows 8 10 with antivirus.		

6. Storage: - Video Management Storage

Specifications		Compliance (Yes/ No)	Remarks
Video Management Storage	Minimum 30 Days Backup with 24 x 7 without compression or compromising the quality of Video		
System Architecture	Storage system should be based on a symmetric and fully distributed grid/scale out architecture, with linear scalability of performance and capacity Storage system should support nodes with multiples CPU architecture (x86, RISC) in the same grid & namespace to ensure future scalability		
	Storage System should support node controllers of different generations to participate in the same grid and namespace		
Hard Disk Type	Controller nodes should support 1TB, 4TB & 6TB, 7200RPM 3.5 SATA Hot swap disk, Raid 5		
Disk drives	Each node should contain a maximum 12 disk drives to minimize hot spots		
Storage Nodes	Storage system should scale from single node to 256 nodes		
	System should support capacity / performance enhancement with additional nodes without downtime to production		
	Storage system should distribute / load-balance video files across all nodes in the system		
	In the event of addition / removal of nodes, the system should automatically rebalance existing across remaining / all nodes		
Controller Memory	Each storage node should support minimum 16GB, and should be scalable to at least 32 GB		
Network Connectivity	Each storage node should support min. 4Gbps aggregate Gigabit Ethernet ports and 400MB/sec aggregated network bandwidth for video streams.		
System Scalability/Expansion	Capacity: The storage system should support scaling to 4TB under a single global namespace.		
	Performance: The system should support automatic scaling of performance with every addition of capacity to the namespace.		

System Redundancies	Individual nodes should support configuration for single or two disk failures, as required		
System Management	Storage node should support network port bonding and sustain port / link failures without connection loss System should support management of all nodes / controllers through a single window / dashboard		
Data Access Protocol	NFSv3, CIFS/SMB		
Access Control	Folder and File Level access control security for users and groups which enables only authorized user to access the video files		
System Alerts	Integrated error logging and automatic email forwarding of error alerts and error display on web management console.		
Archiving support	Support for optional tape archiving module with drag and drop feature		
Licensing	All above features (except optional tape archiving module) should be enabled and available on the storage system by default.		
Power Supply	Redundant power supply (230VAC, 50Hz)		

7. Power Backup & Display

Specification	Compliance(Yes/No)	Remarks
Power Backup:- Online UPS for cameras and server with min 30 minutes Backup		
Display:- LED Display 42 Inch.		

8. Layers 3 (Core Switch)

Specification		Compliance (Yes/ No)	Remarks
Architecture	The switch shall be non-blocking in architecture and should have standalone/stack/chassis.		
	Shall be 19" Rack Mountable.		
	Shall have dual, hot-swappable AC Power supplies.		
	Shall have 16 RJ-45 autosensing 10/100/1000 ports and 24 SFP fixed Gigabit Ethernet SFP ports. Shall have 4 x fixed 1G/10G SFP+ ports.		
	Shall have 1 RJ-45 serial console port.		
	Shall have 1GB SDRAM and 512 MB flash.		
	Shall have switching capacity of 208 Gbps 360Gbps.		
	Shall have up to 155 268 million pps switching throughput.		
Resiliency	Shall have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 router. Graceful restart for OSPF,/ IS-IS and BGP protocols Bidirectional Forwarding Detection (BFD) for OSPF,/ IS-IS and BGP protocols.		
	Shall support virtual switching fabric creation across nine switches using 10G 100G Ethernet Links.		
	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple spanning Tree Protocol IEEE 802.3ad Link Aggregation Control Protocol (LACP) Ring protocol support to provide sub-100 ms recovery For ring Ethernet-based topology Virtual Router Redundancy Protocol (VRRP) to allow a group of routers to dynamically back each other up to create highly available routed environments.		
Layer 2 Features	Shall support up to 4,000 port or IEEE 802.1Q-based VLANs.		
	Shall support GARP/MVRP VLAN Registration Protocol or equivalent feature to allow automatic learning and dynamic assignment of VLANs.		
	Shall have the capability to monitor link connectivity and shut down ports at both ends if uni-directional traffic is detected, preventing loops.		
	Shall support IEEE 802.1ad QinQ and Selective QinQ to increase the scalability of an Ethernet network by providing a hierarchical Structure.		
	Shall support Jumbo frames on GbE and 10-GbE ports Internet Group Management Protocol (IGMP)		

	Multicast Listener Discovery (MLD) snooping IEEE 802.1AB Link Layer Discovery Protocol (LLDP) Multicast VLAN to allow multiple VLANs to receive the same IPv4 or IPv6 multicast traffic.		
Layer3 Features (any additional licenses required shall be Included)	Shall have Static Routing for IPv4 and IPv6.		
	Shall have RIP for IPv4(RIPv1/v2) and IPv6 (RIPng).		
	Shall have OSPF/ISIS for IPv4 (OSPFv2) and IPv6 (OSPFv3). Shall have IS-IS for IPv4 and IPv6 (IS-ISv6).		
	Shall have Border Gateway Protocol 4 with support for IPv6 addressing .		
	Shall have Policy-based routing Shall have Unicast Reverse Path Forwarding (uRPF).		
	Shall support IPv6 tunnelling to allow IPv6 packets to traverse IPv4-only networks by encapsulating the IPv6 packet into a standard IPv4 packet.		
	Dynamic Host Configuration Protocol (DHCP) client, Relay and server		
	PIM Dense Mode (PIM-DM), Sparse Mode (PIM-SM), and Source-Specific Mode (PIM-SSM) for IPv4 and IPv6 multicast applications.		
MPLS capability including MPLS VPNs and MPLS traffic Engineering (MPLS TE) VPLS for data center to data center communication at Layer 2; provides support of hierarchical VPLS for scalability Shall provide support of hierarchical VPLS (H-VPLS) for scalability			
QoS and Security Features	Access Control Lists for both IPv4 and IPv6 for filtering traffic to prevent unauthorized users from accessing the network.		
	Port-based rate limiting and access control list (ACL) based rate limiting.		
	Congestion avoidance using Weighted Random Early Detection (WRED).		
	Powerful QoS feature supporting strict priority (SP) queuing, weighted round robin (WRR), weighted fair queuing (WFQ), weighted deficit round robin		

	(WDRR) and weighted random early discard (WRED).		
	IEEE802.1x to provide port-based user authentication with multiple 802.1x authentication sessions per port Media access control (MAC) authentication to provide simple authentication based on a user's MAC address .		
	Dynamic Host Configuration Protocol (DHCP) snooping to prevent unauthorized DHCP servers Port security and port isolation.		
Management Features	Configuration through the CLI, console, Telnet, SSH and Web Management.		
	SNMPv1, v2, and v3 and Remote monitoring (RMON).		
	support sFlow (RFC 3176) or equivalent for traffic analysis.		
	Management security through multiple privilege levels with password protection.		
	support Port mirroring to duplicate port traffic (ingress and egress) to a local or remote monitoring port.		
	FTP, TFTP, and SFTP		
	RADIUS/TACACS+ for switch security access administration.		
	Network Time Protocol (NTP) or equivalent support.		
	Shall have Ethernet OAM (IEEE 802.3ah) management capability		
Environmental Features	Shall provide support for RoHS and WEEE regulations.		
	Shall be capable of supporting both AC and DC Power inputs.		
	Operating temperature of 0°C to 45°C		
	Safety and Emission standards including UL 60950-1;/ IEC 60950-1;/ VCCI Class A;/ EN 55022 Class A		
Copy-rights registration in India	IPR/Copyright/Design copy for switch should be on the Name of Network OEM in India		
Quality Certifications	Network Switch OEM should have ISO 9001/TL9000, ISO 14001 (Environmental MGMT).		

9. PoE Switch

	Specification	Compliance (Yes/ No)	Remarks
Port	The switch shall have 8 RJ-45 auto-negotiating 10/100/1000 PoE ports.		
	The witch shall have two 1000BASE-X SFP port in addition to above ports		
	The Switch shall support JEEE 802.3af PoE and IEEE 802.3at PoE+.		
	The Switch shall have minimum 65 240 Watts for PoE power.		
	Shall support 1000 Base-SX, LX, and LX Bi-directional SFP transceivers.		
	Switching capacity of 20 Gbps.		
	Switching throughout of up to 14 million pps.		
	1 RJ-45 console port		
Layer 2 Features	Configurable up to 8000 MAC addresses		
	Shall support IEEE 802.3ad Link Aggregation Control Protocol (LACP).		
	Shall support IEEE 802.1d Spanning Tree Protocol.		
	Shall support IEEE 802.1w Rapid Spanning Tree Protocol for faster convergence.		
	Shall support IEEE 802.1s Multiple Spanning Tree Protocol.		
	Shall support IGMP snooping for multicast filtering instead of flooding traffic to all ports, improving network performance.		
	Shall support MLD snooping to forward IPv6 multicast traffic to the appropriate interface, preventing traffic flooding.		
	Shall support IEEE 802.1AB Link Layer Discovery Protocol (LLDP).		
	Shall support LLDP-MED (Media Endpoint Discovery) to automatically configure network devices such as IP phones.		
Layer 2 and Layer 3 features	Shall Support IEEE 802.1Q with 4,094 simultaneous VLAN IDs.		
	Shall support Voice VLANs.		
	Shall support gratuitous ARP to allow detection of duplicate IP addresses.		
	Shall support up to 10 9 Kilobyte frame size to improve the performance of large data transfers.		
	Shall support Static IPv4/IPv6 routing, 32 static routes.		
	Shall support DHCP relay to simplify management of DHCP addresses in networks with multiple subnets.		
	Shall support port security and port isolation.		

Security and QoS Features	Shall support MAC and Port based ACLs enable network traffic, filtering and enhance network control.		
	Shall support ACL and QoS for IPv6 network traffic.		
	Shall support time-based ACLs to allow for greater flexibility with managing network access		
	Shall support IEEE 802.1X and RADIUS network logins to control port-based access for authentication and accountability		
	Shall support MAC-Based authentication		
	Shall support strict priority queuing (SP), weighted round robin (WRR) queuing, and SP+ WRR. DSCP		
	Shall support ARP attack protection feature to block ARP packets from unauthorized clients		
	Shall support DHCP snooping to block unauthorized DHCP Servers		
	Shall support STP BPDU protection preventing forged BPDU attacks		
	Shall support STP Root Guard to protect the root bridge from malicious attacks or configuration mistakes		
Management Features	SNMP V2/V3.		
	SSHv2, Limited CLI/Telnet, Web based interface and Dual flash images.		
	IPv6 host support to be managed using IPv6.		
	Shall support Port mirroring.		
	Shall support intuitive Web GUI (http/https) for easy management.		
	Shall support Limited command-line interface to deploy and troubleshoot.		
	Shall support management security through multiple privilege levels.		
	Shall support single IP address management for up to 16 switches.		
	Shall support Network Time Protocol (NTP).		
	Shall have an operating temperature of 0°C to 40°C.		
	Safety and Emission UL 60950/IEC 60950-1/EN 60950-1 and FCC part 15 Class A/VCCI Class A/EN 55022 Class A.		
Copy-rights registration in India	IPR/Copyright/Design copy for switch should be on the Name of Network OEM reside in India		
Quality Certifications	Network Switch OEM should have ISO 9001/TL9000, ISO 14001 (Environmental MGMT).		

10 Firewall & Security

	Specifications	Compliance (Yes/ No)	Remarks
Antivirus Software – Data Center Security Server, Monitoring Edition & Server Advanced	Key Features		
	Agentless network-based threat detection and protection (Network IPS).		
	Operations Director delivers out-of-the-box security intelligence And automates policy-based security orchestration within the Symantec Data Center Security product family, enables application centric Security services, and seamlessly integrates with VMware NSX to extend security policy orchestration to third party security tools.		
	Unified Management Console (UMC) delivers a consistent management experience across Data Center Security products.		
	In-guest file quarantine and policy-based remediation.		
	Security monitoring across physical and virtual servers including real-time file integrity monitoring, configuration monitoring consolidated event logging, and file and system tamper prevention.		
	Security monitoring of Open Stack Data Centres including configuration changes, monitoring of Keystone program files and Keystone data and access monitoring.		
	Security monitoring of AWS public and hybrid clouds (VPCs) Including security configuration monitoring, file integrity monitoring, white listing with application control for on-premise and off-premise data centers, and security automation across the cloud environment via REST API.		
	Out of the-box host IDS and IPS policies.		
Sandboxing and process access Control (PAC), host firewall, compensating HIPS controls, file and system tamper prevention and application and device control.			

11. Passive Network Components

Specifications		Compliance (Yes/ No)	Remarks
(a)	Fibre Cable :- Fibre Cable 12 core		
(b)	UTP Cable :- CAT 6 Cable		
(c)	Power Cable :- Power Cable 2.5 mm or 3.5 mm		
(d)	PVC Channels		
(e)	Flexi Pipe		
(f)	Networks connector and cords		
(g)	Rack 36 U or 24 U or 9 U depending on network size		
(h)	Junction Box		

Annexure J

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

To
The President of India
Acting through
Department of Telecommunication
Sanchar Bhawan,
New Delhi-110001

WHEREAS (name and address of the Supplier) (hereinafter called —the Supplier) has undertaken, in pursuance of contract no..... dated to supply (description of goods and services) (herein after called —the contract).

AND WHEREAS it has been stipulated by you in the said contract that the Supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with and due performance of the contract;

AND WHEREAS we have agreed to give the Supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Supplier, up to a total of (amount of the guarantee in words and figures), and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

The Bank guarantee shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

The Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Supplier.

The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the Purchaser in writing. The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this Guarantee for an on behalf of the Bank.

This guarantee shall be valid up to and including the day of, 20.....
.....

(Signature with date of the authorised officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch