

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>)

Date of publishing: T

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Section –I (Notice Inviting Tender)

 <p>सत्यमेव जयते</p>	<p>DEPARTMENT OF TELECOMMUNICATIONS SANCHAR BHAWAN, 20, ASHOK ROAD NEW DELHI - 110001 NOTICE INVITING TENDER (For publishing in the Website)</p>	
Office of Issue	<p>Department of Telecommunications IT Cell, Sanchar Bhawan New Delhi-110001</p>	
Tender No.	<p>1-8/2016-17Misc.IT-I</p>	
Tender Forms Available at Website	<p>http://eprocure.gov.in/eprocure/app</p>	
Date and Time of Issue/Publishing	<p>18.12.2021</p>	<p>09:00 Hours</p>
Document Download/Sale Start Date & Time	<p>19.12.2021</p>	<p>09:00 Hours</p>
Pre-Bid Meeting	<p>23.12.2021</p>	<p>11:00Hours Conference Room, 13th Floor Sanchar Bhawan Delhi-110001</p>
Bid Submission Start Date & Time	<p>07.01.2022</p>	<p>15:00 Hours</p>
Bids Submission Last Date & Time	<p>12.01.2022</p>	<p>15:30 Hours</p>
Date and Time of opening of Technical bid	<p>14.01.2022</p>	<p>15:30 Hours</p>
Place of opening of Technical bid	<p>Sanchar Bhawan, 20-Ashoka Road, New Delhi - 110001</p>	
Date of opening of Financial bid	<p>Shall be intimated later</p>	

- 1.1 On behalf of The President of India, e-Tender through e-procurement portal (CPPP) is invited for installation of CCTV Surveillance system in DoT HQ, Sanchar Bhawan from only 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), etc. Approximate quantities of Items likely to be required for the project are as per Annexure-A. Prices quoted should be F.O.R. Destination, inclusive all viz. levies & taxes, transportation and packaging, loading/unloading & forwarding charges, etc.
- 1.2 Bid Document is available on CPP Portal Website <http://eprocure.gov.in/eprocure/app>.

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 Fibre Patch Cord, SM, SC to LC-3 Meter	150
7	Fibre Optic Outdoor Armoured 12 core (SM)	4500 Meters
8	LIU, 24 Fibre, Rack mount (LC)/(SM)	6
9	LIU, 12 Fibre, 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, Seating arrangement etc.	Lot
E	Installation, Testing, Commissioning and CAMC	
1	Installation, Testing & Commissioning of IP CCTV surveillance system and LAN system including other electric misc. works. (includes all Active and Passive Components)	Lot
2	Comprehensive onsite support Services 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)

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

Dated: 17.12.2021

To,

As per list attached,

Subject: Invitation for Technical and Commercial Proposals (Two Bid Systems) for Installation of CCTV Surveillance system for Department of Telecommunication at Sanchar Bhawan, New Delhi.

Sir,

With reference to the above subject, the instant proposal pertains to Supply, Installation, Testing & Commissioning (SITC), Training and Comprehensive Annual Maintenance contract of the CCTV Surveillance System at Sanchar Bhawan, New Delhi.

2. It is decided with the approval of Competent Authority to install CCTV Surveillance System at Sanchar Bhawan. Accordingly, Department of Telecommunication is inviting techno commercial proposal only from Central Public Sector Undertakings (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), etc. The Network Operation Centre (NoC) room approx. 20 feet x 15 feet is proposed at 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 issued by MHA vide OM No. D-32018/3/2015/SSO(Pt.) dated 20th April 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 bidders may quote products/services of higher specifications with proven performance.
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-minutes backup
- e. Display – LED Display of 42” – (Min 11 Displays/as per actual requirement)

(v) Active Network Components:

- a. Layer 3 Switch (Core Switch)
- b. PoE Switch
- c. Firewall and Security
- d. Passive Network Components etc.

5. The interested bidders (CPSU) are also advised to visit site/premises for:

- a. Site Survey before bidding, in case they wish so
- b. To see the site conditions before quoting the price.
- c. To draw/design the solution as per site requirement.
- d. To take notice of the site/operational conditions.

A final plan for location/installation of CCTV cameras inside Sanchar Bhawan will be submitted by the bidder (CPSU) before commencement of work within one week from the date of award of work.

6. Scope of Works: The Scope of work has been covered in the attached BoQ and specifications as per **Annexure-I**. 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 the complete system. Detail Scope of the work includes survey of all the locations, delivering the Bill of Quantities (BOQ) to locations, Joint Material inspection at site with site in Charge/his representative (ADG-IT3), Supply, Installation, Testing & Commissioning, imparting Training to location staff & Handing over the site to the Location in Charge. In addition, the scope also includes Comprehensive Annual Maintenance Contract (CMC) for Five Years after completion of warranty period of one year.
7. The bidder is required to quote for the complete work, though the Department of Telecommunication reserves the right to award the work in full or in part or even cancel the tender without assigning any reason.
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 Packets. Online bids under two envelopes/cover systems consisting of (1) 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 submitted separately on CPP Portal and marked as “**Technical bid**” and “**Financial bid**” as applicable.
11. Technical bids should contain duly filled checklist under para-2 of Section-3 and all the requisite/supporting documents as mentioned. No financial/prices should be quoted in technical bids otherwise the bid would be summarily rejected.
12. Financial Bid: Prices and all taxes to be quoted in the sheet of the financial bid on CPP Portal as per **Annexure-D**.
13. Any deviations whether technical or commercial stated anywhere in the Quotation shall not be considered, may render the bid non-responsive and liable to be rejected.
14. Quotation should be valid till **180 days** from the last date of Bid submission.
15. Warranty: One year from the date of Complete System Handover to the Department of Telecommunications. The Comprehensive Annual Maintenance is also required for five years for complete CCTV system/material installed. The warranty 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 the vendor/s and Comprehensive Annual Maintenance will begin after successful completion of **warranty period of One Year**.
16. Basis of price: The offer should clearly indicate units and rates. Prices should be submitted on F.O.R. SITE.
17. 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 a successful manner. Attached Annexure-C for Bill of material (BoM) is an indicative list of items that may be used for successful installation.
18. Termination for Default: Department of Telecommunication (DoT) 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/DoT; 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 of a contract to the detriment of the Purchaser/DoT 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 Purchaser/DoT 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 the Department of Telecommunication. Non-compliance to this may result in blacklisting of the bidder/contractor/firm.

19. 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.
20. Bidders shall have to deposit **Performance Bank Guarantee (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>.

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Section 3: Check List

- 3.1 **Technical Bid:** The 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 sections before submitting the documents. If the submitted documents are found to be at deviation from the documents asked for in the Tender Document then 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 checklist given below:

SN	Technical Bid Documents	Submitted (Yes/ No)	Page Numbers	Remarks
1	Tender Acceptance Letter (Annexure-F).			
2	Duly filled detail of CPSU as Annexure-B			
i	Date of CPSU's Registration with details (Copy of registration to be enclosed).			
ii	Sales Tax Number/ GSTIN (whichever is applicable, enclose copy)			
iii	PAN/TAN Number (enclose copy)			
3	Field experiences as per Bid Clause 2.10 of Section-4 (enclose all the requisite documents including satisfactory performance certificate from other Departments)			
4	Undertaking from the bidding CPSUs that M/s (Name of CPSU) shall comply Rule-144(xi) of GFR-2017 and Department of Expenditure letter F.No.6/18/2019-PPD dated 23.07.2020 & Department of Public Enterprise Memo No: DPE/7(4)/2017-Fin. (Part-I) dated 30.07.2020 while procuring IP based network components/services required for commissioning of the CCTV Surveillance system at Sanchar, Bhawan (Bid clause 2.15 of Section-4).			
5	The Bidder should not have been debarred/black-listed by any Central/ State Government Agency. An undertaking by the bidder in this regard to be submitted (bid clause 2.8 of Section-4).			
6	Bide Security Declaration (Bid clause 2.14 of Section-4)			
7	Undertakings from Bidders as per Bid Clause 2.5 and 2.7 of Section-4			

8	Un Priced BoQ duly filled in (Annexure-C).			
9	Undertaking from the Bidders for Clause by clause Compliance to the technical specifications for each parameter of specifications mentioned in “Annexure-I” and there is no deviation from the same specifications.			
10	Data Sheets for offered Solutions.			
11	Manufacturer Authorization Letter (MAL) as per Bid clause 2.1 of Section-4 from the OEMs for: -			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
iii.	Network Switch			
iv.	Server			
v.	Workstation			
vi.	UPS			
vii.	Optical Fibre Cable			
12	Compliance of Make in India Guidelines/ Policy from offered OEM in Un Priced BoQ for following Products (Bid clause 2.16 of Section-4): -			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
iii.	Network Switch			
iv.	Server			
v.	Workstation/ Desktop Computers			
vi.	UPS			
vii.	Optical Fibre Cable			
13	Undertaking from Offered OEM’s having its service and support centre in India for (Bid clause 2.2 of Section-4):			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
iii.	Network Switch			
iv.	Server			
v.	Workstation/ Desktop Computers			
vi.	UPS			

14	CCTV Cameras, Server, Workstation shall have quality system compliance and shall be STQC/TEC/BIS or any Indian Standards as applicable to the equipment. All supportive documents should be attached with the technical bid for (Bid clause 2.4 of Section-4):			
i.	CCTV Camera			
ii.	Server			
iii.	Workstation/ Desktop Computers			
15	“No Malicious Code Certificate” from the OEM for CCTV Camera and Network Video Management Software (NVMS) (Bid clause 2.9 of Section-4):			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
16	Undertaking from Offered OEM of CCTV Cameras and Network Video Management Software (NVMS) that these products are ONVIF compliant (Bid Clause 2.12 of Section-4):			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
17	Signed Declaration on letterhead from offered OEM of CCTV camera that MAC addresses of proposed CCTV Cameras are registered in the name of OEM supplying the cameras (Bid clause 2.13 of Section-4).			
18	Signed declaration on letterhead from offered OEM of CCTV Camera and NVMS that offered camera models & NVMS software are integral and support the configurations of the system (Bid clause 2.3 of section-4):			
i.	CCTV Camera			
ii.	Network Video Management Software (NVMS)			
19	Items of which specifications are not mentioned in tender documents should be of ISI/BIS/Industrial standards as per applicable Governments Norms. (Bid clause 2.11 of Section-4).			
20	Any other document (s) as required in the bid elsewhere (Please mention details such as Bid clause 2.17 of Section-4, etc)			

3.3 **Financial Bid:** The Financial Bid is to be submitted online on CPP Portal as per **Annexure-D.**

Section 4: General Terms & Conditions of Contract

- 1.0 **Bid Submission Documents**: - “Technical bid” envelope must contain the documents, which would enable the bidder to qualify the technical stage of bid such as (i) Duly filled checklist given in para-2 of Section-3 and all the requisite documents (mark page number on each document) as mentioned, (ii) Technical Compliance, (iii) Data Sheets, (iv) Un Priced BOQ, (v) Duly filled and signed undertakings/Annexure for compliance, etc. No Financial/ prices to be quoted in technical bid otherwise the bid would be summarily rejected.

Bidders are advised to read the instructions carefully in relevant sections before submitting the documents. If the submitted documents are found to be at deviation from the documents asked for in the Tender Document then the bid will be summarily rejected without any correspondence with the bidder. The following documents shall be submitted for evaluation of “Technical Bid”: -

- 1.1 Duly filled detail of CPSU as **Annexure-B**
- 1.2 Tender Acceptance Letter (**Annexure-F**).
- 1.3 Undertakings from Bidder as per Clauses 2.5, 2.7 and 2.9 of Section-4.
- 1.4 Un Priced BoQ duly filled in (**Annexure-C**, refer clause 2.14 of Section-4).
- 1.5 Clause by clause Compliance to the technical specification for each parameter of specifications mentioned in **Annexure-I**.
- 1.6 Undertaking from Bidder that there is no deviation from the specification mentioned in **Annexure-I**
- 1.7 Data Sheets for offered Solutions (refer clause 2.6 of Section-4).
- 1.8 Manufacturer Authorization Letter (MAL) from OEM’s (refer clause 2.1 of Section-4) for:
 - (i) CCTV Camera
 - (ii) Network Video Management Software (NVMS)
 - (iii) Network Switch
 - (iv) Server
 - (v) Workstation
 - (vi) UPS
 - (vii) Optical Fibre 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 then he has to submit Manufacturer Authorization Certificate (MAL) from each OEM offered by Bidder. Otherwise, the bid would be considered as non-responsive and will be Summarily rejected.

- 1.9 Make in India Certificate from offered OEM in Un Priced BoQ for following Products (refer clause 2.16 of Section-4): -
 - (i) CCTV Camera

- (ii) Network Video Management Software (NVMS)
- (iii) Network Switch
- (iv) Server
- (v) Workstation
- (vi) UPS
- (vii) Optical Fibre 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 then 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.

- 1.10 Undertaking from Offered OEM's having its service and support centre in India for (refer clause 2.2 of Section-4): -
- (i) CCTV Camera
 - (ii) Network Video Management Software (NVMS)
 - (iii) Network Switch
 - (iv) Server
 - (v) Workstation
 - (vi) UPS
- 1.11 CCTV Cameras, Server, Workstation shall have quality system compliance and shall be STQC/ TEC/ BIS/any Indian standards as applicable to the equipment. All supportive documents should be attached with the technical bid (refer clause 2.4 of Section-4).
- 1.12 "No Malicious Code Certificate" from OEMs of the CCTV Camera and Network Video Management Software (Bid clause 2.9 of Section-4).
- 1.13 Undertaking from Offered OEM of CCTV Cameras and Network Video Management Software (NVMS) that these products are ONVIF compliant (refer clause 2.12 of Section-4).
- 1.14 Signed declaration on letterhead from offered OEM of CCTV camera that MAC addresses of the quoted CCTV Cameras are registered in the name of OEM supplying the cameras.
- 1.15 Signed declaration on letterhead from offered OEM of CCTV Camera and NVMS that offered camera models & NVMS software are integrable and support the configurations of the system (refer clause 2.3 of section-4).
- 1.16 Signed undertaking for the items against specifications have not been mentioned in tender documents, should be of ISI/Industrial standards marked or according to applicable Governments Norms (Bid clause 2.11 of Section-4).

2.0 Bidders' Eligibility Criteria: -

- 2.1. 'Manufacture Authorization Letter' is required to be submitted confirming that the bidder is authorized to quote the products of the OEM & product should comply with the requirement of this Ministry as per specifications given in the tender document.
- 2.2. An 'Undertaking from OEMs of camera and Network Video Management Software

(NVMS)' having its service and support centre in India. This Service and support centre should have facility of repair/trouble shooting of offered Camera and NVMS software. Also mention address of the Service centre in the undertaking duly signed and stamped.

- 2.3. '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.
- 2.4. Cameras shall have quality system compliance and shall be 'STQC/TEC/BIS or any Indian standards' as applicable to the equipment. All supportive documents should be attached with the technical bid.
- 2.5. 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 regard is to be submitted.
- 2.6. Data Sheets of each item/s in respect of which rates are quoted should also be attached.
- 2.7. '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.
- 2.8. The Bidder should not have been debarred/black-listed by any Central/State Government Agency. An undertaking by the bidder in this regard to be submitted.
- 2.9. Bidder has to submit the "No Malicious Code Undertaking Letter" for the CCTV cameras and VMS.
- 2.10. The bidding CPSU should have solely undertaken and completed in laid down time at least three CCTV installation projects in any Central Govt Office Complexes/Organisation of minimum cumulative value of Rs. 1.50 Crore during the last four financial years viz. 2017-18, 2018-19, 2019-20, 2020-21.

OR

Should have solely undertaken and completed in laid down time at least one CCTV installation projects in any Central Govt Office Complexes/Organisation of minimum value of Rs. 1.0 Crore during the last four financial years viz. 2017-18, 2018-19, 2019-20, 2020-21.

The bidding CPSU must have carried out the business of installation of CCTV Camera as per MHA guidelines contained in OM No. D-32018/3/2015/SSO(Pt.) dated 20th April 2015. 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.

- 2.11. Items of which specifications are not mentioned in tender documents should be of ISI/Industrial standards marked according to applicable Governments Norms.
- 2.12. The offered CCTV cameras and Video Management Software (VMS) should be ONVIF compliant. Undertaking from the respective OEMs is to be submitted by the bidders.
- 2.13. 'Signed Declaration on letterhead' from offered OEM of CCTV camera that MAC addresses of proposed CCTV Cameras are registered in the name of the OEM supplying the cameras.

- 2.14. 'Bid security declaration certificate' shall be deposited as desired in the tender
- 2.15. Undertaking from the bidding CPSUs that M/s (Name of CPSU) shall comply Rule-144(xi) of GFR-2017 and Department of Expenditure letter F.No.6/18/2019-PPD dated 23.07.2020 & Department of Public Enterprise Memo No: DPE/7(4)/2017-Fin. (Part-I) dated 30.07.2020 while procuring IP based network components/services required for commissioning of the CCTV Surveillance system at Sanchar, Bhawan.
- 2.16. Undertaking from the bidding CPSU that M/s (Name of CPSU) shall comply the latest guidelines issued by Government of India under Make in India policy for public procurements as per DPIIT Orders No. P-45021/2/2017-B.E.-II dated 15.06.2017 & No. P-45021/2/2017-PP (BE-II) dated 28.05.2018 and OM No.P-45021/2/2017-PP(BE-II) dated 4th Jun, 2020 & 16th Sep, 2020, Department of Public Enterprise OM No: DPE-7(4)/2017-Fin-(Part-I) dated 30.09.2020, MeitY Notification No. W-43/4/2019-IPHW-MeitY dated 7th Sep, 2020) and Department of Telecommunications Gazette Notification no.18-10/2017-IP dated 29.08.2018 while procuring IP based network components/services required for commissioning of the CCTV Surveillance system at Sanchar, Bhawan as applicable.
- 2.17. Details of Quoted OEMs in the Financial Bid products have to be furnished by the bidder.

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 then the bidder 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 "Bid Security Declaration on Letterhead"

4.0 **Tender Evaluation:**

Technical and Financial Bids will be evaluated separately by a Tender Evaluation Committee (TEC) duly constituted by the Competent Authority. DoT may seek any kind of clarifications/documents at any stage of bidding without assigning any reason.

4.1 **Award of Contract:**

This is a two-envelope bid. At the first stage, technical bids shall be opened and evaluated. In the second stage, Financial Bids shall be opened for those who qualify at Technical stage. Since, this is a turnkey project, hence, L-1 will be decided on the basis of the overall lowest cost/price quoted by CPSU in its Financial Bid with the approval of Competent Authority. In case of tie, work would be awarded to the CPSU which has executed maximum nos. of CCTV surveillance Projects in Central Govt. Departments/Organizations.

4.2 **Technical Clarification:** -

Bidder desiring any technical clarification may contact ADG(IT-III)/ Director (IT-III), Room No. 1222/ 1419, 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 the 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 bidder 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 the department would be free to award remaining work to other agencies at the cost of the bidder.

6.0 Training: -

- i. The scope of work envisages that the Bidder shall undertake to train the staff nominated by the Department in different aspects of equipment, functioning, testing, operation & administration free of any charge from DoT HQ.
- ii. The CPSU shall at every stage of installation; testing and commissioning shall 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, Maintenance and Training program, at the user's premise/location, will be structured so as to train 10 (Ten) officers/officials or as per requirement, nominated by the department.
- iv. The training programs should be designed such a way that officers/officials may be trained in a holistic manner.
- 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 a pro

rata basis after receipt acknowledgement/ note of goods received by the end user.

- ii. Payment of 20% of the tender price will be released on Installation and Commissioning of the 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 the staff of DoT trained by vendor.
- 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, the bidder would inform the buyer/DoT in writing for taking over the system and organising training for the staff nominated by Director (IT-1)/Admin Div.
- vi. It shall be the responsibility of the buyer/DoT to depute DoT staff for training within a week and on completion of training, DoT staff will supervise the operations for a period of one month. Subsequent to successful operations for the said period, DoT will take over the system. If the buyer/DoT fails to do so within stipulated time then the system would be considered to have been made-over for the purpose of releasing the payments as per Para 7.0 (iii) above. Shortcomings, if any found during the said period of one month will be removed by the bidder at its own expenses.

8.0 **Performance Bank Guarantee (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 expiry of the validity. The bank guarantee is to be given as per the format given at **Annexure-J**.

9.0 **Terms & Conditions:** -

- i. The CPSU 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. The CPSU will bear the responsibility to bring the items and installation the same in the office.
- iii. The CPSU may be asked to demonstrate/Proof of Concept (POC) of the Quoted Camera, NVMS and other equipment during evaluation of the technical bid in case required at **“NO COST NO COMMITMENT BASIS”**.
- iv. The Department of Telecommunications reserves the right to reject any quotation completely or partially without assigning any reason.
- v. The Department of Telecommunications also reserves the right to cancel the contract before installation, if the items of the CPSU are not found satisfactory.

- vi. The payment charged by the CPSU/bidder for maintenance (Comprehensive onsite support charges for CCTV Surveillance system and LAN system for 5 years after completion of warranty period of one year) will be released quarterly on pro-rata basis in every year. Deficiency, if any, found in the service, a penalty up to 5 % shall be imposed on the cost of quarterly maintenance charges.
- vii. Quotation should be valid till 180 days from the last date of Bid submission.
- 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 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.
- ix. **Extension**: - The Comprehensive Annual Maintenance Contract (CAMC) may be extended by the competent authority of this Ministry on the request of the agency on the same rates, terms & conditions of the existing contract for a further period of one more year subject to satisfactory performance/service of the contractor and administrative convenience of the Competent Authority.
- x. Items mentioned in [A], [B], [C] & [D] of Annexure-C of tender documents are tentative quantities. 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 the actual consumption/used.
- xi. Quotations shall be liable to be rejected if there is/are any deviation(s) from the given Specifications.
- xii. Any deviations whether technical or commercial stated anywhere in the Quotation shall not be considered, may render the bid non- responsive and liable to be rejected.
- xiii. It is obligatory for the CPSU to keep one dome & one box camera in spare at any time on site during the whole period of contract to replace faulty camera, immediately, if any.
- xiv. The contractual firm shall also provide Comprehensive Annual Maintenance Contract for CCTV surveillance system and LAN system for a period of five years after completion of warranty period of one Year.

- xv. Utmost care shall be taken while 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 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 Orders No. P-45021/2/2017-B.E.-II dated 15.06.2017 & No.P-45021/2/2017-PP(BE-II) dated 28.05.2018 and OM No. P-45021/2/2017-PP(BE-II) dated 4th Jun, 2020 & 16th Sep, 2020, Department of Public Enterprise OM No: DPE-7(4)/2017-Fin-(Part-I) dated 30.09.2020, MEITY Notification No. W-43/4/2019-IPHW-MeitY dated 7th Sep, 2020) and Department of Telecommunications Gazette Notification no. 18-10/2017-IP dated 29.08.2018 OR related orders issued by Govt of India from time to time. The make in India compliance shall be ensured line item wise for all major components as mentioned in the bid.
- xviii. The CPSUs shall also comply Rule-144(xi) of GFR-2017 and Department of Expenditure letter F.No.6/18/2019-PPD dated 23.07.2020 & Department of Public Enterprise Memo No: DPE/7(4)/2017-Fin. (Part-I) dated 30.07.2020 while procuring IP based network components/services required for commissioning of the CCTV Surveillance system at Sanchar, Bhawan.

10. **Arbitration:** -

- i. In the event of any question, dispute or difference arising under this agreement or in connection therewith (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, Digital Communications 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 then the functions of the Chairman, Digital Communications Commission (DoT) or by whatever designation such officers may be called (hereinafter referred to as the said officer) and if the Chairman, Digital Communications 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, Digital Communications 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, Digital Communications 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, Digital Communications 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 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 the 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/diagnostic as well as to attend the breakdowns (as and when required/call basis) to ensure the trouble-free working of CCTV systems 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 breakdown and repair, the contractor's Engineer should prepare

- a service report and shall 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 breakdown 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 the contractor for procurement and replacement as and when required during the period of CAMC.
 - 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, contractors 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, the contractor shall provide standby equipment as replacement at its own cost.
 - m. In case of major repairs necessitating removal of the equipment to the contractor's service centre, the system or its parts shall be reinstalled at the owner premises after repairing the set-in working condition. Provision of standby cameras 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 equipment and its preventive maintenance required periodically shall be provided by the contractor. Such maintenance comes under the scope of the 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 the 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' premises, the configuration of the equipment in detail must be noted/recorded 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 endeavours 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 a reasonable time of 15 Days, the 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/upgradation 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.

(ii) **Fault Control:**

The Contractor shall ensure that the equipment is in good working condition 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 Sundays normal service is to be rendered by the contractor. In case the contractor/firm fails to rectify the fault within 24 Hrs, the penalty would be imposed as per the following manner: -

- (a) For 1 to 3 days, system down time, penalty should be @ Rs.2000/- per day
- (b) For 4 to 7 days, system down time, penalty should be @ Rs.5000/- per day
- (c) 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 shall lie on the contractor for any security issues that happened due to system down.

(iii) **Preventive Maintenance:** -

- a. Regular preventive maintenance visits shall be made by the firm ONCE IN A MONTH to ensure upkeep of the system. Any fault brought to the contractor's/firm's notice either during such routine calls or otherwise informed by Control Room officials, shall be responded within three hours, otherwise penalty will be imposed as per para-9(vi) of Section-4.

- 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 of all the equipment, checking the individual network components and services including debugging/ upgradation of the software and end to end performance of the CCTV surveillance System.
- c. The contractor shall ensure proper video recording from all the CCTV cameras & its retrieval 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 for backup has been included in the scope of the work/Tender.
- d. The service engineer of the contractor attending the maintenance shall monitor the environment in which the hardware is working and forewarn the control room Incharge of any factor detrimental to the satisfactory performance of the hardware.
- e. A schedule for preventive maintenance shall be drawn by the contractor in consultation with Control Room, Incharge and shall submit to the control room Incharge 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.

(iv) **Penalty:**

Overall penalty which includes penalty under para-9(vi), para-11(ii) and para-11(iii)(a) of Section-4, should not exceed 10% of Annual Maintenance Cost (Cost of Comprehensive onsite support Services for CCTV surveillance system and LAN system for 5 Years/5). Penalty, if any, would be deducted from the quarterly payments.

(v) **Payment terms:**

- a. Proof of having paid the employer's contribution to EPFO, ESIC and Minimum wages applicable in NCT of Delhi in respect of skilled manpower deployed in DoT for CAMC for the quarter for which the bill is submitted for payment. Payment for any quarter shall be made by Director (IT-1) only after receiving the above proofs and deducting penalty, if any.
- b. The Contractor should have registration with EPFO and ESIC. The Contractor should be solely responsible for EPF and ESI contributions and shall deposit with the respective authorities on the part of the employer in respect of this contract. The contractor shall also comply all statutory obligations from time to time in respect of this contract.

12.0 **Site of work: -**

The intending bidder is advised to study the tender documents, concerned specifications and other instructions carefully. The bidder shall inspect the proposed site of work and acquaint himself with the site conditions, working hours and all relevant items connected with execution of the work/project. 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 records 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. Details of Defect Attended with date.
- f. Name of Service Engineer.
- g. Name of the In-Charge of the 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 a representative authorized by Engineer-Incharge (Director-IT1) and also get a report signed by the concerned Control Room in charge with office seal before submission of a bill for quarterly payment from the Ministry of Communication (DoT).

15.0 Spare Parts: -

- (i) The CPSU 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 the CPSU 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 for the complete system for a period of 5(Five) years on a 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 CPSU.
- 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 necessarily have to be provided by the CPSU without any extra charge for commissioning of the complete CCTV surveillance system under this Tender.
- 17.0 The firm will ensure that all the work of supply, installation/erection, testing and commissioning of CCTV in the 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 functional wings/Divisions.
- 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 CPSU'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 CPSU 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 the Ministry of Communications, Sanchar Bhawan.
- 20.0 CPSU shall immediately replace 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 the Ministry of Communication, Sanchar Bhawan.
- 21.0 CPSU 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 and 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.
- 24.0 Letter duly signed and stamped by the Authorized signatory for Authorization to attend pre-Bid meeting (Annexure G) is mandatory to carry with otherwise not allowed to attend the meeting

Annexure-B
Details of CPSU

Sl. No.	Description	Details to be given by the Bidder
1.	CPSU's Name and Full Postal Address	
2.	Name of the representative of the CPSU and his Telephone/Mobile No.	
3.	Date of CPSU's Registration with details (Copy of registration to be enclosed).	
4.	Sales Tax Number/ GSTIN (whichever is applicable)	
5.	PAN/TAN Number	

Bid Security Declaration

(On letterhead duly signed & Stamped by Authorised Signatory)

“It is confirmed that we have fully understood the scope of work and all other requirements for Supply, installation, testing and commissioning of CCTV in the 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 in case, if we withdraw or modify the bid then we shall be barred from participation 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, testing 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	Quantity (In unit if otherwise stated)	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 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 Fibre Patch Cord, SM, SC to LC-3 Meter	150	
7.	Fibre Optic Outdoor Armoured 12 core (SM)	4500 Meters	
8.	LIU, 24 Fibre, Rack mount (LC)/(SM)	6	
9.	LIU, 12 Fibre, 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	
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	
Total of (C)			
D	Control Room		
1	LED 42" Display	11	
2	Online UPS 5 KVA	5	
3	Modular Control room including AC, Seating arrangements etc.	Lot	
Total of (D)			
E	Installation, Commissioning and CAMC	Qty.	Unit
1	Installation, Testing & Commissioning of IP CCTV surveillance system and LAN system including 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 tentative quantities. 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 (in units otherwise stated)	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 (Meter)						
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 Fibre Patch Cord, SM, SC to LC-3 Meter	150						
7.	Fibre Optic Outdoor Armoured 12 core (SM)	4500 (Meter)						
8.	LIU, 24 Fibre, Rack mount (LC)/(SM)	6						
9.	LIU, 12 Fibre, 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 (Meter)						
17.	Supply of Channel 45x25	1000 (Meter)						
18.	Supply of Channel 30x25	1000 (Meter)						
19.	Supply of Channel 45x45	1000 (Meter)						
20.	Conduit Pipe 40mm	3000 (Meter)						
21.	Supply of 2" HDPE Pipe	500 (Meter)						
22.	18 MM Reinforced Flexible Pipe	500 (Meter)						

23.	25 MM Reinforced Flexible Pipe	500 (Meter)						
24.	50 MM Reinforced Flexible Pipe	200 (Meter)						
25.	Junction Box (9U Rack)	32						
26.	Power cable 2.5mm	4500 (Meter)						
27.	6A Single Pole MCB	7						
D								
1.	LED 42" Display	11						
2.	Online UPS 5 KVA	5						
3	Modular Control room including AC, Seating arrangements etc.	Lot						
E	Installation, Testing & Commissioning of IP CCTV surveillance system and LAN system including 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 Services for CCTV surveillance system and LAN system	5						
Y	Total Amount of above items (F) (In Rs)							
Total Price of the Tender (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 the BIDDERS**

The BIDDERS commit itself to 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 followings: -

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, 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 the purposes of competition or personal gain, or pass on to others, 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 actions 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 an incorrect statement on this subject, BIDDER can be disqualified from the tender proposed or the contract, if already awarded. Can be terminated for such a reason.

5. **Earnest money (security deposit)**

- 5.1 While submitting a 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 sixty days (60) beyond 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 anyone Deployed/ 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 ENCASH 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 the 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 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 the offered price in the present bid in respect of any other Ministry/Department of the government of India or CPSU and if it is found at any stage that similar product/system or subsystem was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then the lower price, with due allowance for elapsed time, will be applicable to the present case and the difference 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 consolation with the central vigilance commission. Names and Addresses of the Monitors are given as under: -

- i. Name: - Shri Arvind Kumar Arora, Indian Defence Service of Engineers (IDSE), Ex. Director General, Military Engineers Services, Ministry of Defence, B-333, Chittaranjan Park, New Delhi -110019
- ii. Name: - Shri Pradeep Kumar Gupta, Central Engineering Service, Ex. Special Director General, Central Public Works Department, T-17, Green Park Extension, New Delhi- 110016

8.2 The task of the Monitors shall be to review independently 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 access to all the documents relating to the project/procurement, including minutes of meeting.
- 8.5 As soon as the monitor notices, or has reason to believe, a violation of this pact, he will 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/sub Bidder(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 10 weeks 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:**

- 12.1 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 remainder 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)
Designation, Deptt. /MINISTRY/

BIDDER
CHIEF EXECUTIVE OFFICER/
Authorised Signatory of CPSU

Witness

1. _____

2. _____

Witness

1. _____

2. _____

Provisions of these clauses 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 Letterhead)

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 to attend Pre-Bid meeting

(on letterhead duly signed & Stamped by Authorized Signatory)

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

Shri/ Ms. ofis hereby authorised to attend the pre-bid meeting 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 the pre-bid meeting.
2. Permission for entry to the hall where pre-bid meeting is held may be refused in case authorization letter as above is not produced before the authority conducting pre-bid meeting.

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	Staircase 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	Staircase 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	Staircase 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	Staircase 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	Staircase 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	Staircase 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	Staircase 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	Staircase Near Women Washroom	1	
42	5	Lift 5/6 Open Area -	1	
43	5	Goods Lift Lobby Area -	1	
44	5	Staircase 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	Staircase Near Women Washroom	1	
49	6	Lift 5/6 Open Area -	1	
50	6	Goods Lift Lobby Area -	1	
51	6	Staircase 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	Staircase Near Women Washroom	1	
56	7	Lift 5/6 Open Area -	1	
57	7	Goods Lift Lobby Area -	1	
58	7	Staircase 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	Staircase Near Women Washroom	1	
63	8	Lift 5/6 Open Area -	1	
64	8	Goods Lift Lobby Area -	1	
65	8	Staircase 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	Staircase 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	Staircase 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	Staircase Near Women Washroom	1	
78	10	Lift 5/6 Open Area -	1	
79	10	Goods Lift Lobby Area -	1	

80	10	Staircase 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	Staircase Near Women Washroom	1	
85	11	Lift 5/6 Open Area -	1	
86	11	Goods Lift Lobby Area -	1	
87	11	Staircase 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	Staircase Near Women Washroom	1	
92	12	Lift 5/6 Open Area -	1	
93	12	Goods Lift Lobby Area -	1	
94	12	Staircase Near Men's Washroom	1	
95	12	Lift 1-4 Open Area	1	
96	12	Small Area Near Lift 1-4	1	
97	12	Staircase 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	Staircase 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	Staircase Near Women Washroom	1	
106	14	Lift 5/6 Open Area -	1	
107	14	Goods Lift Lobby Area -	1	
108	14	Staircase 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	Staircase Near Women Washroom	1	
			109	30
		Total including Dome and Box Camera	139	

Annexure-I
Technical Specifications

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 Megapixel or Higher 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 be able to 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	Superimposing 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,		
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 OR equivalent BIS/TEC/STQC or any Indian Standards as applicable.		
25	ONVIF Compliant	The offered CCTV should be ONVIF compliant		
26	Quality Certification	CCTV OEMs should have ISO 9001, 14001, 27001 Certificate.		
27	MAC Address Registration	MAC addresses of proposed CCTV cameras should be registered in the name of the 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 Megapixel or Higher 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 a minimum dual stream, and each stream can be individually configurable, and able to choose streams for live and recording.		
14	Streaming	Camera should support unicast and multicast streams.		
15	Bit Rate	Camera should be able to 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 OR equivalent BIS/TEC/STQC or any Indian Standards as applicable.		
25	ONVIF Compliant	The offered CCTV should be ONVIF compliant		
26	Quality Certification	CCTV OEMs should have ISO 9001, 14001, 27001 Certificate.		
27	MAC Address Registration	MAC addresses of proposed CCTV cameras should be registered in the name of the OEM supplying the cameras.		

2. 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 compliant.		

3. Server: - Network Video Management Server

Specification		Compliance (Yes/ No)	Remarks
CPU	Intel®Xeon®8 CORE Gold 6226R Processor or E5-2690 16-Core 2.9GHz or equivalent.		
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		

4. Desktop: - Video Management Client Access Desktop Workstation

Specification		Compliance (Yes/ No)	Remarks
Desktop	Processor i7,10 th Generation, 8-Core 1.9 GHz, RAM-16 GB expandable up to 32 GB, Hard disk-1TB, SSD-128 GB, Display 23 Inch, Keyboard, Mouse, OS-Windows 10 Profession with antivirus or higher.		

5. 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)		

6. 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.		

7. 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 unidirectional 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.		
QoS and Security Features	MPLS capability including MPLS VPNs and MPLS traffic Engineering (MPLS TE) VPLS for data centre to data centre communication at Layer 2; provides support of hierarchical VPLS for scalability Shall provide support of hierarchical VPLS (H-VPLS) for scalability		
	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.		
Management Features	Dynamic Host Configuration Protocol (DHCP) snooping to prevent unauthorized DHCP servers Port security and port isolation.		
	Configuration through the CLI, console, Telnet, SSH and Web Management.		
	SNMPv1, v2, and v3 and Remote monitoring (RMON). supports Flow (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).		

8. 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 IEEE 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 throughput 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.		

Security and QoS Features	Shall support port security and port isolation.		
	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.		
Copy-rights registration in India	Safety and Emission UL 60950/IEC 60950-1/EN 60950-1 and FCC part 15 Class A/VCCI Class A/EN 55022 Class A.		
Quality Certifications	IPR/Copyright/Design copy for switch should be on the Name of Network OEM reside in India		
	Network Switch OEM should have ISO 9001/TL9000, ISO 14001 (Environmental MGMT).		

9. Firewall & Security

	Specifications	Compliance (Yes/ No)	Remarks
Antivirus Software – Data Centre 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 Centre 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 Centre 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 centres, 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.			

10. 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) (hereinafter 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 and 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