उत्तर प्रदेश पुलिस दूरसंचार मुख्यालय, महानगर, लखनऊ – 226006 संख्याः ई–544 / 2021(इक्यूपमेंट) पार्ट दिनांकः जुलाई & ,2021

नोटिस

कृपया सर्वसम्बन्धित को सूचित किया जाता है कि मा0 सर्वोच्च न्यायालय में योजित विशेष अनुज्ञा याचिका (क्रिमिनल) 3543 आफ 2020 परमवीर सिंह सैनी बनाम बलजीत सिंह एवं अन्य में पारित आदेश के अनुपालन में प्रदेश के समस्त थानों पर सीसीटीवी कैमरों का मय आडियो के अधिष्ठापन / व्यवस्थापन कराया जाना है।

उक्त के दृष्टिगत कन्सल्टेंट द्वारा तैयार किया गया DPR Volume-I & II उ०प्र० पुलिस की वेबसाइट पर अपलोड किया जा रहा है, जिस पर विभिन्न कार्यदायी संस्थाओं / कम्पनियों / SI (System Integrator) आदि से सुझाव दिनांकः 17.07.2021 समय 1700 बजे तक आमंत्रित हैं। आप अपने सुझाव e-mail id: radiohq@nic.in पर प्रेषित कर सकते हैं।

Junt 7. 2021 (सुनीता शर्मा)

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DETAILED PROJECT REPORT

CCTV Based Monitoring System for Police Stations in Uttar Pradesh

May 2021

(Version 0.2)

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Abbreviations

S. No.	Term	Abbreviation
1	AI	Artificial Intelligence
2	BOQ	Bill of Quantity
3	СОВ	Central Oversight Body
4	CCTV	Closed Circuit Television
5	DHQ	District Headquarter
6	DPR	Detailed Project Report
7	EMS	Enterprise Management System
8	НА	High Availability
9	IP	Internet Protocol
10	IR	Infra-Red
11	IT	Information Technology
12	UP	Uttar Pradesh
13	LAN	Local Area Network
14	MP	Mega Pixel
15	NMS	Network Management System
16	NVR	Network Video Recorder
17	ONVIF	Open Network Video Interface Forum
18	PHQ	Police Headquarter
19	PMU	Project Management Unit
20	PS	Police Station
21	RFP	Request for Proposal
22	SD	Secure Digital
23	SLA	Service Level Agreement
24	SP	Superintendent of Police
25	SSP	Senior Superintendent of Police
26	UT	Union Territory
27	VMS	Video Management System
28	VPN	Virtual Private Network
29	WAN	Wide Area Network
30	N/A	Not Available
31	PoE	Power over Ethernet
32	ONVIF	Open Network Video Interface Forum
33	ICT	Information and Communication Technology
34	FPS	Frames Per Second
35	DEF	District Enforcement Force

Disclaimer

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While all possible efforts have been made to ensure the accuracy of information contained in this project report, this document has been prepared on the data provided by the department. The sizing calculations and assumptions etc. made in this document are based on the data provided by the Department.

In this Detailed Project Report, if meaning of any word or explanation of any sentence is leading to conflict or confusion between two parties then final decision will be taken by UP Police pertaining to proper discussions conducted with relevant stakeholders

Errors and Omissions:

When reading this document, if you identify any errors or omissions please advise the author in writing by giving a brief description of the problem and its location within the document.

Confidentiality:

This document contains privileged and confidential information pertaining to "CCTV based monitoring system for Police Stations in Uttar Pradesh". The access level for the document is specified above. The addressee should honour this access rights by preventing intentional or accidental access outside the access scope.

1 Introduction

1.1 Project background and objective

UP Police is responsible for policing a geographical area of more than 2,40,000 sq.kms and a population of more than 23 Crores. The State has 1530 Police Stations, 249 Non-DEF Police Stations and 79 Mahila Police Chowki Pramarsh Kendras spread across 78 districts that are the backbone of the law and order in the state.

Citizens come to Police Stations to record their complaints and seek help from the Police. It is the Police Station where all case related paperwork is done, investigation is undertaken, and suspects are held for questioning.

As per the Hon'ble Supreme Court Order in Special Leave Petition No.3543/2020 with Paramvir Singh Saini versus Baljit Singh, arising out of impugned final judgement and order dated 22 November 2016 in CRWP No.1245/2016 passed by the Hon'ble High Court of Punjab & Haryana at Chandigarh, Police Stations of all States and UTs are supposed to install CCTV cameras. Hon'ble Supreme Court has circulated below mentioned 3 orders comprising of the directions for installation and implementation of CCTV Based Monitoring System at all Police Stations

i. Hon'ble SC order dated 2.12.2020 -

Paragraph number 16 – "The State and Union Territory Governments should ensure that CCTV cameras are installed in each and every Police Station functioning in the respective State and/or Union Territory. Further, in order to ensure that no part of a Police Station is left uncovered, it is imperative to ensure that CCTV cameras are installed at all entry and exit points; main gate of the police station; all lock-ups; all corridors; lobby/the reception area; all verandas/outhouses, Inspector's room; Sub-Inspector's room; areas outside the lock-up room; station hall; in front of the police station compound; outside (not inside) washrooms/toilets; Duty Officer's room; back part of the police station etc."

Paragraph number 17 - "CCTV systems that have to be installed must be equipped with night vision and must necessarily consist of audio as well as video footage. In areas in which there is either no electricity and/or internet, it shall be the duty of the States/Union Territories to provide the same as expeditiously as possible using any mode of providing electricity, including solar/wind power. The internet systems that are provided must also be systems which provide clear image resolutions and audio. Most important of all is the storage of CCTV camera footage which can be done in digital video recorders and/or network video recorders. CCTV cameras must then be installed with such recording systems so that the data that is stored thereon shall be preserved for a period of 18 months. If the recording equipment, available in the market today, does not have the capacity to keep the recording for 18 months but for a lesser period of time, it shall be mandatory for all States, Union Territories and the Central Government to purchase one which allows storage for the maximum period possible, and, in any case, not below 1 year. It is also made clear that this will be reviewed by all the States to purchase equipment which is able to store the data for 18 months as soon as it is commercially available in the market. The affidavit of compliance to be filed by all States and Union Territories and Central Government shall clearly indicate that the best equipment available as of date has been purchased."

Paragraph number 18 – "Whenever there is information of force being used at police stations resulting in serious injury and/or custodial deaths, it is necessary that persons be free to complain about a redressal of the same. Such complaints may not only be made to the State Human Rights Commission, which is then to utilize its powers, more particularly under Sections 17 and 18 of the Protection of Human Rights Act, 1993, for redressal of such complaints, but also to Human Rights Courts, which must then be set up in each District of every State/Union Territory under Section 30 of the aforesaid Act. The Commission/Court can then immediately summon CCTV camera footage in relation to the incident for its safe keeping, which may then be made available to an investigation agency in order to further process the complaint made to it."

ii. Hon'ble SC order dated 27.01.2021-

"In this order Hon'ble Supreme Court has mentioned about a report of Amicus Curiae who has given following checklist -

- 1. Compliance affidavit to be filed by Principal/Cabinet/Home Secretary indicating firm action plan with exact timelines
- 2. Total number of Police Stations
- 3. Total number of CCTV
- 4. Positioning of CCTV
- 5. Working Condition of CCTV
- 6. Recording/Storage capacity
- 7. Oversight Committee
- 8. Allocation of adequate funds
- 9. DGP to issue directions to person in charge of Police Station
- 10. Ensure no part of station is left uncovered
- 11. CCTV must have night vision and audio recording
- 12. /Internet and Electricity
- 13. Storage in digital video recorders and/or network recorders
- 14. Mandatory for all States to purchase CCTV with 18 month recording system
- 15. States must indicate that best available equipment was purchased
- 16. Human Rights Court
- 17. SLOC and COB directions to display large posters
- 18. Complaint mechanism"

iii. Hon'ble SC order dated 2.03.2020 -

In this order for the State of Uttar Pradesh mentioned directions are given-

"So far as the State of Uttar Pradesh is concerned, we have read the affidavit filed on behalf of the State and heard Sh. Vinod Diwakar, learned Additional Advocate General. While it is true that the State of Uttar Pradesh stands apart in its size and the number of Police Stations, we still find that the affidavit does not address what exactly we wished for, and the timeline that is stated is too long. Given the above, we, therefore, direct the State of Uttar Pradesh to complete budgetary allocation for all Police Stations within the State within a period of three months from today. So far as the implementation and installation of cameras is concerned, we grant a further period of six months after the budgetary allocation takes place i.**e. 9 months from today**. Having considered that the State is a big one and that the number of Police Stations are many, we have deviated from the

timeline that has been granted so far as other States are concerned. $^{\prime\prime}$

This order is given to prevent any violation of human rights taking place at the Police Stations. To further explain,

Considering the above orders, the Home Department has ordered Uttar Pradesh Police to plan, design and implement a project that shall satisfy all the directions of Hon'ble Supreme Court orders. Uttar Pradesh Police is the nodal agency for implementation of this project. This project envisages creation of an integrated network of CCTV cameras fitted across all Police Stations of the State and connected with District Headquarters (DLOCs) for an efficient surveillance management.

The project is focused on building CCTV infrastructure with proposed solutions of general surveillance across all Police Stations:

- > 24/7 surveillance with video and audio recording at the Police Stations
- > Safeguarding against any violation of Human Rights at the Police Stations
- ▶ Meet all the criteria specified by the Amicus Curiae

1.2 Project stages

This project is envisaged in two (2) stages:

- Stage I: As-Is Report Preparation, Detailed Project Report (DPR) Preparation, Request for Proposal (RFP) Preparation, Bid Process and Selection of SI
- **Stage II:** Implementation of CCTV surveillance system at identified points of Police Stations

Ernst and Young LLP has been entrusted by UP Police to provide consulting services for the conceptualization and design of CCTV solution. Ernst & Young LLP has significant experience in advising Law Enforcement Agencies and other Government bodies both in India and aborad in areas ranging from technology to process improvement and implementation services in the area of intyegrated security and surveillance.

Ernst and Young LLP has a dedicated Government & Public Sector (GPS) team, which has an indepth understanding of Government sector including multiple State / UT Police organisations/Home department, Ministry of Home Affairs, Ministry of Defence, Financial Intelligence Unit of India, Central Bureau of investigation, Department of Justice and Ministry of Panchayati Raj etc.

2 Purpose of the Detailed Project Report (DPR)

- 2.1 Hon'ble Supreme Court has issued an order **on 2nd December 2020** for the states and UTs of the country for mandatory installation of CCTV cameras at every Police Station. This Detailed Project Report (DPR) is prepared as per the directions proposed by Hon'ble Supreme Court where CCTV systems are equipped with night vision and comprising of audio as well as video footages. This system is to be installed at the major access points of the Police Stations.
- **2.2** Areas in which there is either power cuts and/or no internet, this solution is designed in such a way that the State is to be facilitated by power backups either solar power or UPS.
- 2.3 The network system that is considered in this solution of Detailed Project Report (DPR) is giving a clear video resolutions and audios. The storage of CCTV camera footage is done in network storage. The system is designed in such a way that the data that is stored thereon is preserved for a period of **18 months**.
- 2.4 In another order of **hon'ble supreme court dated 2nd March 2021**, timelines for processing of the project was stated. Considering the timelines of the Supreme Court for budgetary allocation of all Police Stations within the state, implementation and installation of cameras within three months and six months respectively from the date of the order i.e. 2nd March 2021, the same has been considered in the Detailed Project Report (DPR).
- 2.5 This Detailed Project Report (DPR) covers current state assessment of surveillance in Police Stations, proposed solution blueprint, financial estimations and implementation plan for CCTV based monitoring system for Police Stations in Uttar Pradesh. It also covers important aspects related to Capacity Building, Risk Management and Service Levels required to manage a project of this scale and complexity.
- 2.6 The directions and suggestions received during site survey and discussions with various stakeholders in UP Police formed the basis of detailing of this Detailed Project Report (DPR). Post approval of DPR, Request for Proposal (RFP) document would be designed for selection of System Integrator (SI).

Following are key aspects covered in this Detailed Project Report (DPR):

- a) Site survey summary covering the details of Police Stations across various districts in Uttar Pradesh
- b) Solution design considering the directions given by Hon'ble Supreme Court
- c) Design of components which include solution architecture, application architecture, technology, security architecture, deployment architecture, network, storage, compute, power backup etc.
- d) Bill of quantity
- e) High level service-level agreement (SLAs)
- f) Setting-up of district level monitoring system at each district SSP/ SP office under DLOC (District Level Oversight Committee)

- g) Project implementation plan
- h) Change management
- i) Capacity building and training
- j) Critical success factors
- k) Risk identification and mitigation
- I) Financial estimation
- m) Assumptions

Purpose of this Detailed Project Report (DPR) is to provide a detailed blueprint of the project to the stakeholders for necessary approvals.

3 Executive Summary

Uttar Pradesh Police has embarked upon the plan to monitor Police Stations across the State using CCTV cameras-based surveillance system. The project is initiated with an intent to ensure adherence of Hon'ble Supreme Court orders and their directions to prevent any violations of Human Rights.

- **3.1** The project would cover all notified Police Stations in the State of Uttar Pradesh with required surveillance system. The following key components have been considered in project design:
- a. Cameras:
 - Surveillance IP cameras (along with audio system) to be installed at the identified locations
 - > 24x7 monitoring and recording
- b. Storage for **18 months**:
 - Decentralized Architecture
 - > All live feeds and data to be stored for up to 18 months at Police Station level
 - One month of storage at District HQ (DLOC) level for all Police Stations under its jurisdiction as back up
- c. Internet Bandwidth:
 - Required broadband internet connectivity at various levels of Police Stations and District HQs (DLOCs)
- d. Basic Video viewing and analysis:
 - Video Management System
 - Basic Video Reporting application
- e. IT / Non-IT hardware
 - Network switch, Router
 - Compute with recording storage
 - Weatherproof accessories for outdoor cameras
 - ▶ Earthing, surge protector and protective device etc.
 - Rack
 - ▶ 42"/32" screens
- f. UPS /Solar Power with minimum 4-hour backup and proper earthing

- g. Network Monitoring System (NMS) and Help Desk ensuring
 - Help Desk ticket/issue management
 - Alert management
 - System health checking
 - Support in proactive error correction, and
 - Restoration of faulty system

h. Server Room

- Dedicated Server room of approx. 80-100 sq. ft. in each Police Station to host the IT systems
- Server Room to be equipped with required power points, dust free environment with Air Conditioner, earthing, fire protection equipment etc.
- > Server room is required only in Police Stations and not in Non- DEF Police Stations
- i. Training and capacity building of the Police Station and DHQ staff
- j. Safety awareness stickers, signages for citizens visiting Police Station with Surveillance Camera demarcation

3.2 Project timelines:

The project is proposed to be implemented as per the directions of Hon'ble Supreme Court are as follows:

S. No.	ltem	Timelines
1	Approval of Detailed Project Report (DPR), Request for Proposal (RFP)	T+3 Months
T	and Budget allocation	
	Implementation of Project {including Bid Process Management,	
	Selection and Onboarding of System Integrator (SI), Site survey,	
2	Delivery of all hardware and other equipment, Installation and	T+9 Months
	commissioning of hardware and network at identified sites, Testing	
	and Quality assurance, Go-Live and Training	

*T = Date of Hon'ble Supreme Court order i.e. 2nd March 2021

3.3 Solution overview:

The surveillance cameras would be deployed as per Supreme Court directions at various selected locations within a Police Station to keep a watch over areas which are vulnerable from human right violations point of view.

The architecture envisages the video and audio feeds to be stored at the Police Station level. The feeds will also be accessible to be viewed at District HQ Office by DLOC on need basis. Depending on the classification of Police Stations (total of 1779) number of cameras to be installed are as follows:

S. No.	District Police Stations and Non DFE Police Stations	Count	No of Cameras in each Police Station		
1	Police Stations (in Districts): Category I	796	Upto 16		
2	Police Stations (in Districts): Category II	297	Upto 12		
3	Police Stations (in Districts): Category III	437	Upto 8		
4	Mahila Police Chowki Paramarsh Kendras	79	1		
5	GRP Police Stations	65	6		
6	Anti-Power Theft Police Station	75	2		
7	Anti-Human Trafficking Units	75	2		
8	Cyber Crime	18	5		
9	Vigilance	10	5		
10	EoW	4	5		
11	SIT	1	5		
12	ATS	1	5		
	Total 1858 *				
*The total number of police Stations are 1779 which comprise of 79 Mahila Police Chowki Paramarsh Kendras					

*The total number of police Stations are 1779 which comprise of 79 Mahila Police Chowki Paramarsh Kendras (allotted 1 dedicated camera each). These Mahila Police Chowki Paramarsh Kendras will be monitored at respective PS itself.

3.4 <u>Project Cost Estimate:</u>

Description	Implementation phase and 3 Yr. (warranty period)	AMC/O&M Y4	AMC/O&M Y5
District Police Stations - 1530 (A)	1,90,57,92,287	11,70,22,333	11,70,22,333
Non-DEF Police Stations - 249 (B)	11,30,45,834	69,41,411	69,41,411
DHQ – 78 (C)	7,46,33,046	45,82,731	45,82,731
Power Back UP (D)	19,76,60,496	1,21,37,048	1,21,37,048
Bandwidth (E)	11,01,06,000	3,67,02,000	3,67,02,000
Network Management System (F)	57,00,000	3,50,000	3,50,000
Manpower (G)	1,85,17,824	70,56,248	75,50,185
Project Management Total (H)	3,81,90,690	99,22,848	1,06,17,448
TOTAL (A+B+C+D+E+F+G+H)	2,46,36,46,176	19,47,14,619	19,59,03,156
Total Cost including Tax (Average Tax @ 18%)	2,90,71,02,488	22,97,63,251	23,11,65,724
Server Room renovation/ construction cost inclusive of tax (I)	22,95,00,000	NA	NA
Total Cost inclusive of Tax with Server Room	3,13,66,02,488	22,97,63,251	23,11,65,724

4 Existing System

4.1 Existing CCTV surveillance system

The existing CCTV Surveillance system at 1530 Police Stations consists of two cameras, with one Dome Camera (with field of view at the entrance of the building or the reception area) and one outdoor bullet camera (to monitor the main entry to the Police Station premise).

This project shall not cover integration with the existing cameras since existing system does not comply with the latest orders and directions by Hon'ble Supreme Court.

5 Site Survey

As per the order of DGP UP – Refer letter no. Ts-4/2015 (ALP-3543/2020) dated so 19.12.2020 all the district Commissioner/SP/SSPs have submitted the survey report of Police Stations which gives an idea about the number of cameras required to be installed.

Considering the large number of Police Stations to be covered in the project, it was difficult to visit each Police Station to formulate the number of cameras required at each location. The team of consultants visited 51 Police Stations of 8 districts to assess the current infrastructure which was compared to the data provided by the district Commissionerate/SSP/SP to design project scale and size.

Following activities were carried out by the consultant team during the site survey:

- Check the layout and orientation of the Police Stations and identify if there are any bifurcation of rooms or sections within rooms of Police Stations
- Identify the areas to be covered under surveillances based on the Hon'ble Supreme Court directions
- > Check the availability of power and space to place the equipment for CCTV system
- > Check for the internet connectivity at the Police Stations
- Check the entry and exit point at the Police Stations premises
- > Check for any expansion plan or new construction of rooms at the Police Stations

5.1 <u>Analysis of data received from Police Stations</u>

5.1.1 Power Availability in Police Stations

Based on the availability of power, Police Stations are bifurcated in two categories; Police Stations where power failure is less than 4 hours and where power failure is more than 4 hours. Accordingly, the power backup has been provisioned in the solution

5.1.2 <u>Cameras' requirement received from Police Stations/other Units</u>

Category	Cameras	Police Stations and other Units
Category 1	2-8 Cameras	636

Category	Cameras	Police Stations and other Units
Category 2	9-12 Cameras	348
Category 3	13-18 Cameras	476
Category 4	19-24 Cameras	215
Category 5	25 and above Cameras	104

5.1.2.1 Bifurcation of Police Stations based on number of rooms

Category	Number of Rooms	Size Police Station	Number of Police Stations
Category 1	0-5 rooms	Standard	402
Category 2	6-9 rooms	Medium	335
Category 3	10 and above rooms	Large	365

Note: Since there is large variation in requirements shared by Police Stations, an average of 8 to 16 number of cameras per Police Station and 2 to 6 cameras per Non-DEF Police Station have been used to calculate project sizing. The below mentioned count of cameras may differ as per the size and locations present at police station

PS Location	No. of Camera's	Type of Camera's
Exit /Entry	2	Bullet
Main entry of PS	1	Bullet
Lockup (Men & Woman	2	Dome
Lobby /Reception area	1	Bullet
Verandas /Outhouses	1	Bullet
SHO room	1	Dome
SI room	1	Dome
Outside Lockup room	1	Bullet
Station hall/Citizen waiting area	1	Bullet
In front of PS compound	1	Bullet
Outside washroom(Men & Women)	1	Bullet
Duty officer Room	1	Dome
Server Room	1	Dome
Back part of PS	1	Bullet
Total Cameras	16	

5.1.2.2 Bifurcation of camera type for Police Sations:

Sr. No	Police Station Category	Type of Camera	Number of Camera
1	Police Sations with camera	Bullet Cameras	4
T	count as 8	Dome Cameras	4
2	Police Sations with camera	Bullet Cameras	8
Ζ	count as 12	Dome Cameras	4
3	Police Sations with camera	Bullet Cameras	10
5	count as 16	Dome Cameras	6

5.1.2.3 Bifurcation of camera type for Non-DEF Police Sations:

Sr. No	Police Station Category	Type of Camera	Number of Camera
1	Non-DEF Police Sations (AHTU	Bullet Cameras	2
1	& APT)	Dome Cameras	0
2	Non-DEF Police Sations (GRP)	Bullet Cameras	4
Ζ	Non-DEF Police Sations (GRP)	Dome Cameras	2
3	Non-DEF Police Sations	Bullet Cameras	3
3	(Others)	Dome Cameras	2

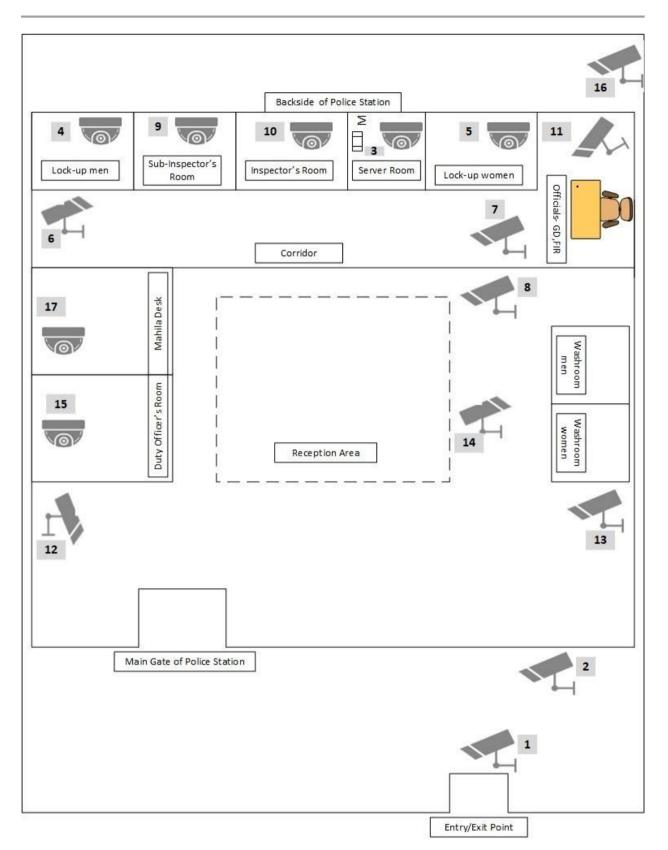


Figure 1 - Conceptual Layout of Police station with installation of 16 Cameras as per Hon'ble SC orders

5.2 Analysis of Sites surveys conducted

S. No	Police Station Name	District	Number of Floors	Number of Rooms	Max. Power Cut in one day (in hours)	Type of Power Backup present	Requested Cameras by PS
1.	Kakori	Lucknow South	1	10	6	DG Set	19
2.	Sushant Golf City	Lucknow South	1	8	1	UPS	16
3.	Gomti Nagar	Lucknow East	1	9	4	-	8
4.	Vibhuti Khand	Lucknow East	3	22	3	UPS	11
5.	Hazratganj	Lucknow Central	2	22	1	-	7
6.	Mahanagar	Lucknow North	2	16	1	UPS	2
7.	Aminabad	Lucknow West	1	11	2	DG Set	3
8.	Kotwali	Unnao	1	18	6	DG Set	6
9.	Gangaghat	Unnao	1	9	2	Solar PV	8
10.	Ajgain	Unnao	1	12	12	Solar PV	9
11.	Sohramau	Unnao	1	9	8	Solar PV	11
12.	Kotwali	Kanpur	2	13	2	UPS	23
13.	Bithoor	Kanpur	1	11	4	UPS	21
14.	Kalyanpur	Kanpur	1	13	7	UPS	22
15.	Barra	Kanpur	3	32	4	UPS	44
16.	Chakeri	Kanpur	2	8	3	UPS	18
17.	Kaushambi	Ghaziabad	2	3	2	UPS	14
18.	Sihani Gate	Ghaziabad	1	4	4	DG Set	16
19.	Sahibabad	Ghaziabad	3	9	6	UPS	22
20.	Kavi Nagar	Ghaziabad	1	5	2	DG Set	43
21.	Indirapuram	Ghaziabad	1	6	1	DG Set	16
22.	Ghaziabad Kotwali	Ghaziabad	1	5	2	DG Set	24
23.	Mahila Thana	Ghaziabad	1	12	3	-	11
24.	Surajpur	Gautam Budh Nagar	2	14	2	DG Set	2
25.	Bisrakh	Gautam Budh Nagar	1	13	1	-	2
26.	Sector 58	Gautam Budh Nagar	2	10	2	-	2

S. No	Police Station Name	District	Number of Floors	Number of Rooms	Max. Power Cut in one day (in hours)	Type of Power Backup present	Requested Cameras by PS
27.	Mahila Thana	Gautam Budh Nagar	1	7	1	-	17
28.	Sector 39	Gautam Budh Nagar	1	6	3	-	2
29.	Sector 20	Gautam Budh Nagar	1	9	2	-	2
30.	Dadri	Gautam Budh Nagar	1	10	3	DG Set	2
31.	Badalpur	Gautam Budh Nagar	2	9	6	DG Set	21
32.	Jewar	Gautam Budh Nagar	1	8	8	DG Set	2
33.	Knowledge Park	Gorakhpur	3	14	2	UPS	2
34.	Cantt Gorakhpur	Gorakhpur	1	7	2 – 3	UPS	15
35.	Ramgarh Tall	Gorakhpur	1	5	2 – 3	UPS	13
36.	Mahila Thana	Gorakhpur	1	6	2 – 3	UPS	17
37.	Shahpur	Gorakhpur	1	5	2 – 3	UPS	10
38.	Guleriya	Maharajganj	1	5	2 – 3	UPS	14
39.	Kotwali	Maharajganj	1	7	6	UPS	12
40.	Mahila Thana	Maharajganj	1	5	6	UPS	10
41.	Nichlaul	Maharajganj	1	6	6	Solar PV	18
42.	Tuthibari	Basti	1	5	12	Solar PV	17
43.	Pharenda	Basti	1	6	9	Solar PV	17
44.	Kotwali	Basti	1	5	4	UPS	23
45.	Mahila Thana	Basti	1	5	4	UPS	16
46.	Nagar	Basti	1	7	8	Solar PV	23
47.	Walter Ganj	Basti	1	6	4	UPS	22
48.	Mahila Thana	Ayodhya	1	5	4	UPS	2
49.	Kotwali Nagar	Ayodhya	1	6	4	UPS	5
50.	Cantt Ayodhya	Ayodhya	1	7	4	UPS	4
51.	Puakalandar	Ayodhya	1	6	13	Solar PV	6
			Total				672

6 Proposed Solution

6.1 Solution Overview

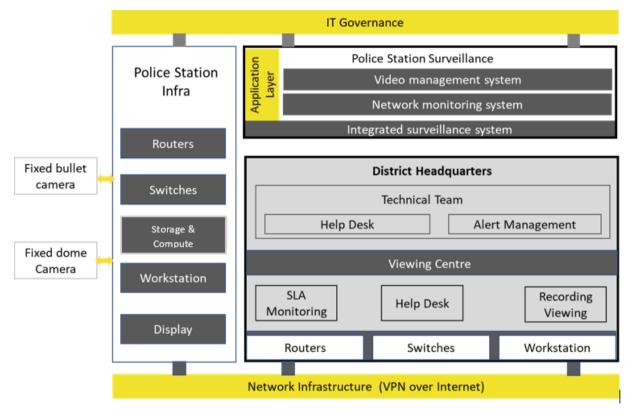


Figure 2 - High Level Structure of the Project

The Solution proposed to be implemented will have the following components:

- 1. Cameras to be deployed at Police Stations: 20735
 - ▶ Fixed Bullet Cameras 12746 nos.
 - ▶ Fixed Dome Cameras 7989 nos.
- 2. Compute and Storage:
 - Decentralized Architecture The video and audio feed will reside in the storage at the respective Police Station for a minimum of <u>18 months</u> at 720p resolution @ 15 FPS continuous recording. The video feed for 7 days will also be stored in SD card within the camera in case of network failure.
- 3. Monitoring facility at Police Stations (1779) and at respective District HQs (78)
- 4. DLOC at district HQs (78 No)
 - DLOC will have access to view the complete surveillance system of respective Police Stations in its jurisdiction.
- 5. Motion based recording data will be stored at DLOC with storage facility for 30 days.

- 6. Bandwidth:
 - Required internet bandwidth at various levels (Police Stations, District HQs) to be provisioned as per the proposed solution
- 7. Network: Required routers and switches at various levels (Police Stations, District HQs)
- 8. Network Monitoring System (NMS) and Help Desk for the entire system can be placed at a specified location in the state. It will enable the system to monitor and address the following tasks:
 - Help Desk ticket/issue management
 - Alert management
 - System health checking
 - Support in proactive error correction, and
 - Restoration of faulty system
- 9. Server Room
 - Dedicated Server room of approx. 80-100 sq. ft. in each Police Station to host the proposed IT systems
 - Server Room to be equipped with required power points, dust free environment with air conditioner, earthing, fire protection equipment etc.
 - > Server room is required only in Police Stations and not in Non-DEF Police Stations

6.1.1 Brief of the solution at Police Stations

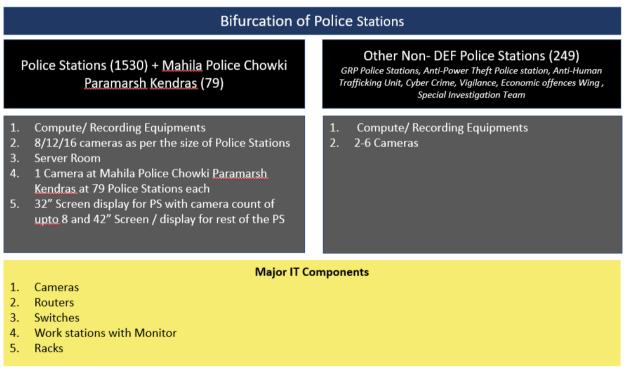


Figure 3 - Bifurcation of Major IT Components at Police Stations and other Non-DEF Police Station

1. IP Cameras with weatherproof enclosure and vandal proofing for Police Station surveillance environment will be used Fixed camera: A fixed camera can focus at a single direction and captures all activity coming within its range. This type of cameras will be installed at indoor and outdoor locations of Police Station following the directions of Hon'ble Supreme Court. The high visibility and clarity of fixed type surveillance camera which will ensure no part of a Police Station is left uncovered.

- 2. IT / Non-IT hardware at specified locations:
 - a. Network switch to connect the cameras and recording system
 - b. Processing and recording system for surveillance data (capturing of video with audio) including compute and storage
 - c. 9U- 24U enclosed Rack to install all IT components (Based on the cameras installed at Police staions)
 - d. Workstation with 21" monitor for monitoring and incident management
 - e. A 32" Screen display shall be provided in each Police Station having camera count upto 8 and a 42" Screen / display shall be provided at each of the remaining Police Stations (except Non- DEF Police Stations) to view the output from surveillance cameras installed in the respective Police Stations in a systematic and sequential manner
 - f. At Police Stations compute with recording storage is provisioned
 - g. Earthing, surge protector and electrical protective device etc.
 - h. CCTV system set up i.e. compute and storage device, router, switch etc. would be installed in 9U- 24U Rack (Based on the cameras installed at Police staions) at dedicated server room of approx. 80-100 sq. Ft. size
 - i. Server room to be equipped with required no. of power points, Air Conditioner, dedicated earthing, fire protection equipment, etc.
- Police Stations where power outage is less than 4 hours, UPS power backup system with minimum 4 hours is provisioned and the Police Stations which has power outage of more than 4 hours, hybrid power system of Solar Power with 12 hours and UPS backup system is provisioned.
- 4. System Integrator to undertake the required underground cabling (if any) following the directions of state electricity department or respective authority wherever applicable.
- 5. Dedicated Internet broadband connectivity at every Police Stations to connect with District HQ (DLOC):
 - a. The Internet broadband connectivity from network service provider with required accessories
 - b. System Integrator shall undertake the required cabling according to the Telecom industry standards.
- 6. Safety awareness stickers, signages with surveillance camera demarcation. SI to get the design and placement of the same to be approved by Department.
- 7. Live and recorded audio and video in real time shall be accessed from the respective District HQs as and when DLOC intends to view the same.

6.1.2 <u>Viewing Centre at District HQs (for DLOC)</u>

- 1. 42" Screen / display to be provided in each District HQ (DLOC) to monitor/view the output from surveillance camera installed at the Police Stations (in its jurisdiction)
- 2. Workstation with 21" monitor for monitoring and incident management
- 3. Network Monitoring System (NMS) dashboard and monitor to view the system status of respective district
- 4. Network equipment rack with all required accessories
- 5. UPS with minimum 4-hour backup and earthing wherever applicable
- 6. Internet broadband connectivity
- 7. Video Management System (VMS) application along with other required software will be part of the solution

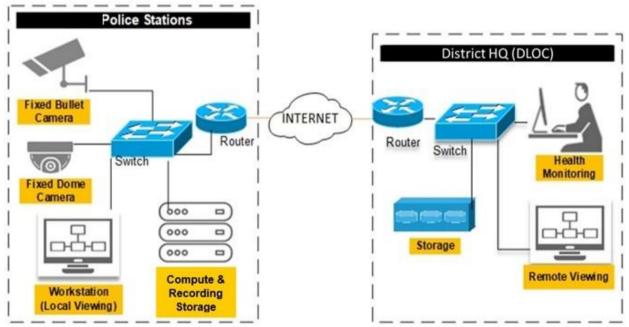
6.1.3 District Wide Area Network

- 1. Network connectivity for all Police Stations and Viewing Centre at District HQs
- 2. SI to provide Virtual Private Network (VPN) over internet broadband connectivity at Police Stations and District HQ(s)

6.2 Proposed Solution

This section represents the overall solution overview and architecture for the project.

Depending on the size and the premise of the Police Station, 2 to 16 cameras shall be installed along with 1 dedicated camera each focusing at each Mahila Police Chowki Paramarsh Kendras at their respective Police Stations, solution for the same is depicted as below.



6.2.1. Solution For 1779 Police Stations with 2-16 cameras (based on the size of police stations)

Figure 4 - Solution components at Police Stations and District HQs

The Solution will broadly include the following components:

- I. At Police Stations
 - ▶ IP CCTV camera (Fixed Bullet and Dome Type) with IR and SD Card
 - Audio mic sensor
 - Compute and Storage with <u>18 months</u> data storage
 - Online UPS with minimum 4 hours backup or Solar Power Hybrid backup system as per site requirement
 - VPN over Internet connectivity
 - Workstation with monitor
 - Display of size 32" for Local viewing at each PS site having upto 8 cameras and display of size 42" for Local viewing at PS site at each of the remaining Police Stations except Non-DEF Police Stations
 - Compute and Storage Device
 - VMS Application
 - PoE Network Switch
 - Router for L3 Network Connectivity

II. At District HQs (DLOC)

- Online UPS with minimum 4 hours backup
- VPN over Internet connectivity
- > Workstation and display for remote viewing and Health Monitoring
- Storage for 1 month
- Network Switch
- Router for L3 Network Connectivity

6.2.1.1 Solution Description:

- I. **Police Stations:** The solution is conceptualized with a software-based video surveillance system in Client-Server architecture.
 - One compute system will be installed at every Police Station to capture and process the Surveillance Data with redundancy to minimize the risk of failure in application and operation level.
 - The Cameras will be connected to the compute system via Power Over Ethernet (PoE) Network Switch.
 - > A Storage of **18 months** will be installed to store the surveillance data locally.
 - All Police Stations will be connected to the respective district HQ (DLOC) via VPN over internet connectivity.
 - A router is provisioned to create VPN tunnel so that communication will happen on secure logical link.
 - A workstation will be installed for live viewing and extraction of archive audio and video footage.
 - ► There will be uninterrupted power backup system (UPS /Solar) in every Police Station as per site requirement. Online UPS with 4 hours backup in full load will be installed where

grid power is available for 16-24 hours, and solar hybrid online power backup system is provisioned where the grid power is not available for more than 4 hrs. a day.

- > CCTV system setup would be installed in dedicated server room.
- > A storage is provisioned with built-in redundancy for video and audio footage.
- **II. At District HQs (DLOC):** The solution is conceptualized for monitoring of surveillance data which may be accessed on-demand; live or archived.
 - All IT components will be networked with a Layer-2 managed network switch. District HQ (DLOC) shall be able to access all Police Stations within its jurisdiction via VPN over internet connectivity.
 - A Router is provisioned to create VPN tunnel so that communication will happen on secure link.
 - Workstations will be installed for live viewing and extraction of archive audio and video footage from all the Police Stations of that respective district. This will also be used for health monitoring of CCTV setup of Police Stations.
 - > Online UPS with 4 hours backup in full load will be installed at every District HQ(DLOC).

7 <u>Solution Design and Architecture</u>

This section describes the overall architecture and defines the standards that must be implemented to deliver IP based video surveillance system for effective and efficient monitoring of human rights violation as per Hon'ble SC orders

- a. Architecture Principles
- b. Security Principles
- c. Solution Architecture Requirements
- d. Data Architecture Requirements
- e. Network Architecture Requirements
- f. Key highlights of Technology Solution

7.1 Architecture Principles

- a. Each incident within the Police Stations would be captured in the system, all feeds from installed cameras will be recorded at the same Police Station and all incidents pertaining to human rights violation shall be reported to the respective District HQ (DLOC)
- b. Monitoring of all incidents in the Police Stations will be on high priority to acknowledge, respond and resolve
- c. All camera feeds at each Police Stations would be recorded for **18 Months** as directed by Hon'ble Supreme Court. In case of any judicial proceedings, the records would be maintained if the proceedings last for longer period. Easy data mining facilities would be available
- d. System will have user friendly and easy to use features
- e. Scalability, manageability must be present in the solution to handle huge data volumes.

- f. System components shall follow open standards / principles
- g. System is required to be robust, effective and reliable, to automate all the processes that are part of IP video surveillance and must have the ability of scaling-up the architecture according to future requirements of Uttar Pradesh Police and further directions of Hon'ble Supreme Court.

7.2 <u>Security Principles</u>

- a. All the databases and data stores must be encrypted.
- b. Security in design will encompass security risk assessment on user specifications, secure information architecture, proper role-based access, secure application and database
- c. The system will be secure at all the user touch points by using suitable security protocols and data protection methods
- d. All the Information & Communication Technology (ICT) assets will be secured throughout their life cycle as they contain sensitive data using hardening, asset disposal and data disposal principles
- e. Critical data stores will be minimized, and stored data always must be encrypted
- f. The access to data will always be given through application layer (via an application)
- g. Virtual Private Network (VPN) and Virtual Local area Networks (VLANs) will be the principle of operations for remote access and isolation of internal traffic.

7.3 Application Architecture

Application Architecture requirement for Video Management Software: The proposed application Architecture identifies criterion and techniques associated with the design of applications for the enterprise computing environment. These criteria and techniques ensure that applications can be easily modified to respond quickly to the changing business needs, as well as to the rapidly evolving information technologies available to support those needs. The following table defines VMS application requirements:

S.No.	VMS Architecture Requirements
1.	Video management systems are the hub of video surveillance solutions, accepting video from cameras, storing the video and managing distribution of video to viewers.
2.	 Intuitive and customized operation Customizable user interface Large screen display (multi-view client) Log with user access control and online function Multiuser alarm processing – allows effective alarm processing from different Police Stations
3.	 Open and flexible interfaces Availability of the video system's whole range of functions to a superordinate management system (host interface) Open system architecture allows applications for project-specific adjustments Meet the data security requirements e.g. by Post Privacy Masking, the user right dependent masking of sensitive areas in live images and recordings
4.	The Video Management System (VMS) platform should have the capabilities of managing multiple network cameras on LAN/WAN in an intelligent way provides the real scalability and flexibility for any video surveillance deployment.
5.	The Video Management Software / Video Management System Shall be able to connect with any IP Camera in future.
6.	The VMS platform should have in-built open framework and protocols that supports industry standard cameras (integrated with maximum number of different cameras, make and models including Open Network Video Interface Forum).

7.4 Data Architecture Requirements

Below are the data architecture requirements that define how data will be processed, stored and used by the department.

S.No.	Data Architecture Requirements
1.	System shall be able to archive transactional database records to prevent long term speed
1.	concerns.
2.	A separate secured database, which mirrors the operational database, shall be created to
۷.	support online access and maintain the integrity of the main operational database.
3.	System shall have the functionality for efficient retrieval of archived video data.
4.	System shall have rules for controlled access to data.
	It would be advisable to adopt open non-proprietary standards that are generic and
5.	extensible to cover future requirements.

7.5 <u>Network Architecture Requirements</u>

The cameras at each Police Station will be connected to the compute system and storage are installed at the Police Station over Local Area Network. All Police Stations shall communicate to respective District HQs (DLOC) for live view and recorded data retrieval. The size and capacity of the network is determined by the solution requirement and consultation with Uttar Pradesh Police officials. The amount of data moving through a connection determines the network capacity for that network segment. As a rule, capacity shall be highest in the central system, which require enough bandwidth to service requests from each Police Station and be prepared to handle the simultaneous service requests.

S.No.	Network Architecture Requirement Description
1.	The network shall provide end to end connectivity which includes the last mile
	connectivity.
2.	All network equipment and types of connectivity shall provide robust security features
	and standards.
3.	Networks shall be scalable for future growth to handle data traffic and expansion of
	services such as video data and other IoT sensors.

7.6 Surveillance System

The core of system design for Police Station Surveillance system shall be the feeds from surveillance cameras installed at every Police Station.

The cameras and related components will be placed after a thorough assessment at the identified locations of every Police Stations.

Viewing of feeds shall primarily be on the following:

- a) Local PC Viewing (PC based application client platform)
- b) Remote PC viewing (PC based application client platform)
- c) Remote Mobile App viewing for UP Police Officials (if required)

7.7 Fixed IP Cameras (Bullet/Dome)

These are the most common CCTV cameras used for commercial property or area security and surveillance. These cameras are fixed at an angle and focus. These cameras are highly customizable

by using different accessories like lenses, power supplies and mounts to suit certain locations and requirements. Considering the kind of open use, fixed bullet cameras are available in weatherproof and vandal proof models with Infra-red for night vision.

Weatherproof enclosures are available for outdoor installations allowing for the camera to be placed in full exposure to the environment and climate changes. They can last a long time and are



specifically designed to withstand most onslaughts of rain, hail, and wind. Vandal proof fixed security cameras are generally made to withstand onslaughts from different force strength. Cameras have a provision to send an alarm to the operator in the event they are spray painted or the viewing window is blocked.



The dome camera is one most commonly used for indoor and outdoor security and surveillance. The shape of the camera makes it difficult for onlookers to tell which way the camera is facing, which is a strong piece of design, deterring criminals by creating an air of uncertainty. Other benefits of internal and external dome cameras include:

- Ease of installation
- Vandal-resistant features
- IR night vision

7.8 <u>Network</u>

Network Connectivity is one of the most important components of the project and needs detailed assessment, planning and implementation. It is important not only to ensure that the required connectivity is provisioned within the required timelines but also ensure that it is reliable, secure and supports the required Service Level Agreement (SLA) parameters.

The entire network connecting Police Stations to respective District HQ (DLOC), shall be via secure tunnel over internet. All Police Stations will be connected to respective District HQ (DLOC) for Live viewing and retrieval of stored video footage as and when require by DLOC/evidence purposes.

It is envisaged that the network connectivity shall be VPN over Broadband through which feeds will be carried on a digital transmission network. SI will have to provide network connectivity from a TSP/NSP with required redundancy and symmetrical bandwidth as per the proposed solution. The cameras will be connected to the system through a wired network. The video feeds from the cameras will be transported via secured VPN network to the respective District HQ (DLOC). The table below provides envisaged bandwidth requirement at field locations:

S.No.	Location Average bandwidth (in Mb	
1	Police Station	12 – 20 (based on number of
1 1		cameras at each location)
2	District HQs	100

7.9 <u>Server Room</u>

Proposed CCTV system equipments are required to be installed in a dust free and waterproof environment with temperature-controlled room of size approx. 80-100 sq. ft.

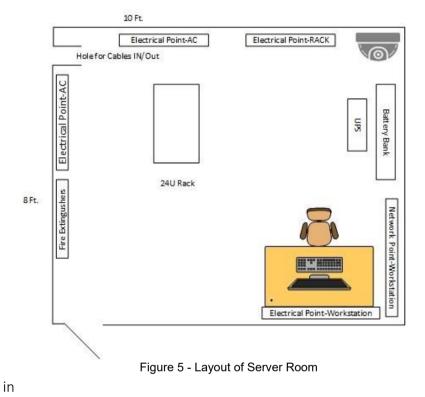
The Server room requirement are as follows:

b. Dust free and waterproof environment

- c. Provision for Air condition installation
- d. Adequate no. of Power points for connection of UPS power system and CCTV system equipments, Workstations etc.
- e. Enough light provision
- f. Emergency light provision
- g. One Fan
- h. Dedicated earthing
- i. Table and Chair for workstation
- j. Fire protection equipments
- k. Lock and key provision for server rooms

If the similar size room is available in Police Station, it is to be renovated as per aforesaid specification since the equipments of CCTV system will be running 24X7.

Server room will be used for installation of CCTV system equipment in 15U-24U enclosed Rack (based on the number of cameras installed in the police station). This setup would be a centralized networking and surveillance system. UPS power system comprising of batteries would be installed and kept in



server room along with one workstation and monitor for viewing the recording.

If there is no such separate room is available in the Police Station for the server room, then a new room must be constructed as per aforesaid specifications

7.10 Asset Management (IP and Non – IP Equipment)

The inclusion of Asset management software is essential for every large-scale project that involves installation and commissioning of expensive devices in the field level and components including IT and Non-IT equipment. It helps the Police department to monitor and manage every single asset in the eco-system using a systemized approach.

7.10.1 Asset Codification

Each asset shall be installed, recorded and monitored using the following principles.

- a. Each asset is identified with a unique ID
- b. Each asset installed will be identified with asset ID
- c. An Asset Id will be tagged as below mentioned Asset Id Example:
 - o UPPS0001 is the Police Station ID
 - o UPPS0001FXD01 is the camera ID
 - o FXB in the camera Id represents that it is Fixed Bullet camera
 - o FXD in the camera Id represents that it is Fixed Dome camera
 - 01 at the ending of camera Id represents that one fixed camera is installed in that site.
 - If Site has multiple cameras of same type, then the number increases by 1.
- d. Similarly, each asset on the Site is uniquely identified for easy tracking
- e. Details of the Asset codification for major components is given below.

S. No.	Component	Code	Details of the Code
1	Unique ID (Site, FRS)	ABC DEF XXXX UPP HGP 0001	UPP- Uttar Pradesh Police HGP- Hazratganj Police Station 0001- Police Station ID Series
2	Comore	ABC DEF XXXX GHIXX UPP HGP 0001 FXB01	UPPHGP0001-PoliceStation ID FXB- Fixed Bullet Type of Camera 01- Series
3	Camera	ABC DEF XXXX GHIXX UPP HGP 0001 FXD01	UPPHGP0001-Police Station ID FXD-Fixed Dome Type of Camera 01- Series
4	System Rack	ABC DEF XXXX GHIXX UPP HGP 0001 RCK01	UPPHGP0001- Police Station ID RCK-Rack 01-Series
5	UPS	ABC DEF XXXX GHIXX UPP HGP 0001 UPS01	UPPHGP0001- Police Station ID UPS01- UPS Series
6	Switch	ABC DEF XXXX GHIXX UPP HGP 0001 SW01	UPPHGP0001- Police Station ID SW- Network Switch

Table 1: Asset Codification

8 Bill of Quantities (BOQ)

This section entails an indicative Bill of Quantity (BoQ) required for the implementation of project.

S.no	Description	Unit	Qty.
1	Fixed Bullet Camera	Nos.	7,960
2	Fixed Dome Camera	Nos.	4,776
3	External Mic Sensor	Nos.	12,736
4	VMS Channel License	Nos.	12,736
5	VMS Base License	Nos.	796
6	Router	Nos.	796
7	L2 Switch 24 port POE+	Nos.	796
8	IE Switch L2 8 Port POE+	Nos.	796
9	Workstation with Monitor 21"	Nos.	796
10	Storage `120 TB usable and compute/recording solution	Nos.	796
11	Display 42"	Nos.	796
12	Internet connectivity - 12 to 20 Mbps for 3 Years (36 Months)	Nos.	796
13	Internal Concealed cabling @ 40 mtr per camera Lot	Mtr.	6,36,800
14	UTP Cat-6A Cable (mtr)	Mtr.	6,36,800
15	UTP Patch Cord 1 mtr	Nos.	47,760
16	24 port UTP Patch Panel	Nos.	796
17	Single port Faceplate with keystone & Gangbox	Nos.	14,328
18	24U Rack with dual PDU & Accessories	Nos.	796
19	Non-IT Table	Nos.	796
20	Air Conditional 1.5 Ton Industrial Grade	Nos.	796
21	Earthing	Nos.	796
22	Power Backup (4 Hr UPS back up or 1/2 hr UPS & Solar)	Nos.	796

8.1 At 796 Police Stations with 16 Cameras

8.2 At 279 Police Stations with 12 Cameras

S.no	Description	Unit	Qty.
1	Fixed Bullet Camera	Nos.	2,376
2	Fixed Dome Camera	Nos.	1,188
3	External Mic Sensor	Nos.	3,564
4	VMS Channel License	Nos.	3,564
5	VMS Base License	Nos.	297
6	Router	Nos.	297
7	L2 Switch 12 port POE+	Nos.	297
8	IE Switch L2 8 Port POE+	Nos.	297
9	Workstation with Monitor 21"	Nos.	297
10	Storage `90 TB usable and compute/recording solution	Nos.	297
11	Display 42"	Nos.	297
12	Internet connectivity - 12 to20 Mbps for 3 Years (36 Months)	Nos.	297
13	Internal Concealed cabling @ 40 mtr per camera Lot	Mtr.	2,37,600

DPR: CCTV Based Monitoring System for Police Stations, Uttar Pradesh

S.no	Description	Unit	Qty.
14	UTP Cat-6A Cable (mtr)	Mtr.	2,37,600
15	UTP Patch Cord 1 mtr	Nos.	17,820
16	24 port UTP Patch Panel	Nos.	297
17	Single port Faceplate with keystone & Gangbox	Nos.	5,346
18	24U Rack with dual PDU & Accessories	Nos.	297
19	Non-IT Table	Nos.	297
20	Air Conditional 1.5 Ton Industrial Grade	Nos.	297
21	Earthing	Nos.	297
22	Power Backup (4 Hr UPS back up or 1/2 hr UPS & Solar)	Nos.	297

8.3 At 437 Police Stations with 8 Cameras

S.no	Description	Unit	Qty.
1	Fixed Bullet Camera	Nos.	1,748
2	Fixed Dome Camera	Nos.	1,748
3	External Mic Sensor	Nos.	3,496
4	VMS Channel License	Nos.	3,496
5	VMS Base License	Nos.	437
6	Router	Nos.	437
7	L2 Switch 8 port POE+	Nos.	437
8	IE Switch L2 8 Port POE+	Nos.	437
9	Workstation with Monitor 21"	Nos.	437
10	Storage `60 TB usable and compute/recording solution	Nos.	437
11	Display 32"	Nos.	437
12	Internet connectivity 12 to 20 Mbps for 3 Years (36 Months)	Nos.	437
13	Internal Concealed cabling @ 40 mtr per camera Lot	Mtr.	3,49,600
14	UTP Cat-6A Cable (mtr)	Mtr.	3,49,600
15	UTP Patch Cord 1 mtr	Nos.	26,220
16	24 port UTP Patch Panel	Nos.	437
17	Single port Faceplate with keystone & Gangbox	Nos.	7,866
18	15 U Rack with dual PDU & Accessories	Nos.	437
19	Non-IT Table	Nos.	437
20	Air Conditional 1.5 Ton Industrial Grade	Nos.	437
21	Earthing	Nos.	437
22	Power Backup (4 Hr UPS back up or 1/2 hr UPS & Solar)	Nos.	437

8.4 At Mahila Police Chowki Paramarsh Kendras with Additional Camera in Police Stations

S.No.	Description	Unit	Qty.
1	Fixed Dome Camera	Nos.	79
2	External Mic Sensor	Nos.	79
3	VMS Channel License	Nos.	79

S.No.	Description	Unit	Qty.
4	Internal Concealed cabling @ 40 mtr. per camera Lot	Mtr.	3,950
5	UTP Cat-6A Cable (mtr.)	Mtr.	3,950
6	UTP Patch Cord 2 mtr.	Nos.	180
7	Single port Faceplate with keystone and Gang box	Nos.	140

8.5 At Non-DEF Police Stations

S.No.	Description	Unit	Qty.
1	Fixed Bullet Camera	Nos.	662
2	Fixed Dome Camera	Nos.	198
3	External Mic Sensor	Nos.	860
4	Router	Nos.	249
5	L2 Switch 16 port POE+	Nos.	99
6	Workstation with Monitor 21"	Nos.	249
7	Storage 50 TB usable and compute/recording solution	Nos.	65
8	Storage 15 TB usable and compute/recording solution	Nos.	150
9	Storage 40 TB usable and compute/recording solution	Nos.	34
10	Internet connectivity- 20 Mbps for 3 Years (36 Months)	Nos.	249
11	Internal Concealed cabling @ 40 mtr per camera Lot	Mtr.	54,320
12	UTP Cat-6A Cable (mtr)	Mtr.	54,320
13	UTP Patch Cord 2 mtr	Nos.	4,470
14	24 port UTP Patch Panel	Nos.	249
15	Single port Faceplate with keystone and gang box	Nos.	1,109
16	9U Rack with dual PDU and Accessories	Nos.	150
17	15U Rack with dual PDU and Accessories	Nos	99
18	Non-IT Table and Chair	Nos.	99
19	Air Conditional 1 Ton	Nos.	99
20	Earthing	Nos.	249
21	UPS 4 Hrs backup	Nos.	249

8.6 At District HQ (DLOC)

S.no.	Description	Unit	Qty.
1	Router	Nos.	78
2	L2 Switch 24 port POE+	Nos.	78
3	Workstation with Monitor 21"	Nos.	78
4	Display 42"	Nos.	78
5	UPS with 4 hrs Backup	Nos.	78
6	Recording Storage (average 150 TB)	Nos.	78
7	Internet connection 100 Mbps for 3 Years (36 Months)	Nos.	78
8	Internal Concealed cabling	Mtr.	6,240

DPR: CCTV Based Monitoring System for Police Stations, Uttar Pradesh

S.no.	Description	Unit	Qty.
9	UTP Cat-6A Cable (mtr)	Mtr.	6,240
10	UTP Patch Cord 1 mtr	Nos.	2,496
11	24 port UTP Patch Panel	Nos.	78
12	Single port Faceplate with keystone & Gangbox	Nos.	156
13	24U Rack with dual PDU & Accessories	Nos.	78
14	Non-IT Table	Nos.	78
15	Air Conditional 1Ton	Nos.	78
16	Earthing	Nos.	78

8.7 Manpower

S.No.	Description	Number of Resources	
1	L1 Field Engineer at Police Zone Level	8	
2	Project Manager	1	

9 Project Implementation and Maintenance Plan

9.1 <u>The following tables presents the project implementation and maintenance plan:</u>

Table 2: Project Implementation and maintenance plan

S. No.	Item	Timelines
1	Approval of DPR, RFP and Budget allocation	T+3 Months
2	Implementation of Project {including Bid Process Management, selection of SI, Site survey report, Delivery of all hardware and other equipment, installation and commissioning of hardware and network at identified sites, Testing and Quality assurance, Go-Live and Training}	T+9 Months
3	Operations and Maintenance	3 to 5 years after Go-live

*T = Date of Hon'ble Supreme Court order i.e. 2nd March'2021

9.2 Project Management Unit (PMU) Roles and Responsibility

PMU Will be required to actively prepare programme management of ongoing CCTV Based Monitoring System for UP Police Stations projects which will include following tasks, but not limited to-

- (a) Project Plan Monitoring:
 - i. Prepare/ Review monitoring templates for project progress
 - ii. Maintain a log of all sub-project plans and generation of summary plans showing project status and progress
 - iii. Prepare and circulate periodic program status reports with the department
 - iv. Facilitate in articulation of field issues, including process related, and support resolution of the same
 - v. Escalate issues to the department on any delay in achievement of milestones
 - vi. Review detailed product specifications, standard complied with for each product, certificate of testing establishing quality and performance of the product
 - vii. Verify deployed resources qualification, experience, certification & skills review
 - viii. Review of deployment of equipment, technical specification compliance, software/application deployed, functional requirement of hardware/ software/ application and valid software licenses with deployed version as per submitted & accepted proposal
 - ix. Any other category which is related to this category and desired by the department
 - x. SI invoice verification against the scope of work, calculation of penalties for noncompliance

10 Service Level Agreements and Penalties

10.1 Service Levels

Service Level Agreement (hereinafter referred to as SLA) shall become the part of Agreement between Department and the selected System Integrator (SI). SLA defines the terms of the successful System Integrator's responsibility in ensuring timely delivery of the deliverables and the correctness of the same based on the agreed Performance Indicators as detailed in this section. The System Integrator must comply with Service Levels requirements to ensure adherence to Project timelines, quality and availability of services.

- A. There is a Force Majeure event effecting the SLA which is beyond the control of the System Integrator.
- B. The non-compliance to the SLA has been due to reasons beyond the control of the System Integrator.
- C. Theft cases by default would not be considered as "beyond the control of System Integrator". However, certain cases, based on circumstances and certain locations, the Department may agree to qualify as "beyond the control of System Integrator".
- D. Damages due to Accidents / Mishap / Vandalism shall be considered as "beyond the control of System Integrator ".
- E. Deliberate damage to camera / pole would not be considered as "beyond the control of System Integrator"
- F. System Integrator is advised to have stronger poles and proper housing to protect from such damages.
- G. System Integrator is also required to note that in case of SLAs not being made applicable for cases considered as "beyond the control of System Integrator", would be still needing to replace the component (if it is not functional as per SLA) within the SLA defined for Resolution of Critical Level / Medium Level / Low level issues. In case System Integrator doesn't adhere to the Issue Resolution SLA timelines, the original SLA shall be made applicable.

The purpose of this Service Level Agreement (SLA) is to define the levels of service which shall be provided by the System Integrator to Uttar Pradesh Police for the duration of this Agreement.

10.1.1 Measurement of SLA

The SLA metrics encompasses performance parameters as baseline performance, lower performance and breach. All SLA calculations shall be done on quarterly basis. The SLA also specifies the penalties for lower performance and breach conditions. Payment to the System Integrator is linked to the compliance with the SLA metrics.

The SLA parameters shall be measured as per the individual SLA parameter requirement and measurement methods, through appropriate SLA Measurement tools to be provided by the

System Integrator and audited by the Department or its appointed Consultant for accuracy and reliability.

The Department shall also have the right to conduct, either itself or through any other System Integrator as it may deem fit, an audit/revision of the SLA parameters. The SLAs defined, shall be reviewed by the Department on an annual basis after consulting the System Integrator, Project Management Consultants and other experts. All the changes would be made by the Department after consultation with the System Integrator and might include some corrections to reduce undue relaxation in Service levels or some corrections to avoid unrealistic imposition of penalties, which are noticed after project has gone live.

The proposed (indicative) SLAs shall be calculated on basis on following parameters:

1) Camera, Video Feed Uptime and Quality

- a) Uptime per camera (live feed available irrespective of network/power/etc. issues)
- b) Ratio of Live cameras v/s Total number of cameras at any point of time (To be measured at Helpdesk/Network Monitoring System level)
- c) Quality of Video feeds (Bad feeds due to video jitter, dim, blurred, unfocused, obstructed, non-aligned feeds)
- d) Average Frame rate maintained for viewing and recording
- e) Overall application(s) availability
- f) Maximum time for Surveillance Application(s) opening
- g) Maximum time for User Login
- h) Menu Navigation, Window / Screen Opening, Screen Navigation (Average)
- i) Change of Screen from one camera Source to another
- j) Video Feed Query Retrieval Response Time
- k) Reports Generation Response Time (Alerts/ Management information system (MIS)/Logs etc.)
- I) Maximum time for successful camera settings modification
- 2) End-User Equipment Uptime
 - a) Monitoring workstations at District HQ (DLOC)

3) Underlying IT Infrastructure Uptime/Availability

- b) Compute and Storage System Uptime
- c) CCTV surveillance
- d) Rest all IT Infrastructure uptime
- 4) Technical Helpdesk, Trouble Ticketing and Issue Resolution
 - a) Resolution of Critical Issues (that impacts more than one production services and higher management)
 - b) Resolution of Medium Level Issues (that do not impact production services)
 - c) Resolution of low-level Issues {upgrade, shifting and preventive maintenance (of non-production items)}

11 Change Management and Capacity Building

- A. For successful acceptance and implementation of redesigned processes and integration of technology at the end of the exercise, Change Management and Capacity Building System plays an important role and ensures successful implementation. In order to acquaint the Department with the latest developments, system changes and adoption of latest innovative approach it becomes quite necessary and important to train the officials / staff and to keep them updated to meet any future challenges. An approach on the change management is likely to meet resistance from the various stakeholders. Hence, it is important to frame a proper Change Management and Capacity Building strategy.
- B. For the success and betterment of CCTV based Monitoring of Police Stations in Uttar Pradesh, it is of utmost importance that UP Police should focus on transformation of management strategies and should emphasis on realistic training plans/ schedules. It provides a reliable approach for requesting, assessing, tracking and resolving these changes during the project lifecycle. The long-term objective is to simplify the process therefore and enhancing the quality of services provided thereby creating conducive environment for proper execution/ implementation.
- C. A success in any project management is the ability of team to effectively manage scope. In case, either the requirements are not properly bound, or the scope is not controlled, there may be seemingly endless additions to the project that generally constitute a loss of control. There is a natural observation process in all projects due to factors such as omissions, mistakes, creativity, misunderstandings and external influences. The purpose of a change management process is to effectively and systematically manage the pressure and implement the system effectively.
- D. The change management process identifies how these scope/work products changes will be identified, classified, communicated and integrated into the project.
- E. Scope expansion is acceptable if:
 - Impact to the project is analyzed and understood
 - Resulting changes to the project (i.e. cost, timing, quality and human resources) are approved and properly implemented

11.1 <u>Resistance Management Planning</u>

- a. Resistance management is an essential part of the change management strategy. Introduction of any change/reform in the system at times encompasses with a lot of resistance from the employees especially in the initial stages. This is especially true of situations where employees have been used to doing work in a fashion over a period. Such employees are normally at the cutting-edge level and the impact of any change is felt the most by these people only.
- b. It is a challenge to make them adapt to a new working style. This would involve organizing trainings/workshops for such category of employees to prepare them for these changes. A

well-planned resistance management strategy is to be prepared by the System Integrator in consultation with the Stakeholders from the Department and Project Management Unit for dealing with various types of resistance issues that may come up along the path of behavioral change of an employee expected during the implementation of this project. Resistance can be managed by adopting the Change Management Framework depicted below.

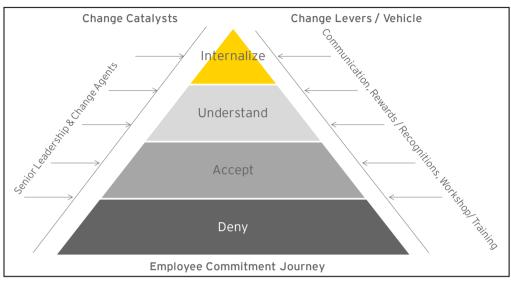


Figure 6 - Employee Committee Journey/

11.2 Identifying Change Agents and Catalyst

- a. Identifying change agents will be done by recognizing the people who are in top position in the Police Department in Uttar Pradesh to enable changes. Such officials are normally in the senior levels of the Department and can persuade others of the need for adapting to such changes. In the context of this project, CCTV based monitoring of Police Stations of Uttar Pradesh, such change agents could be officials / seniors who are part of the top administration- Director General of Police and Additional Director General of Police. The fact that these top-level officers are vested with the requisite authority and have a broad overview of the Police functioning. This would make them extremely perfect to fathom the issues and bring about the anticipated changes in the system.
- b. The main job of change management catalysts is just not to initiate change, but also endure it till the time it is fully completed. It involves working in two mutually overlapping and interdependent domains namely, 'People and Organization'. A strong management/leadership communicates trust, encouragement and confidence to those who are led and paves way for creating and articulating a shared vision. It facilitates an atmosphere of confidence and trust, vital to motivating, enhancing the ability and changing the attitude of the staff members.
- c. Leadership of senior level officials will play the following role in change management:
- > Communicating the need for this change and involving all parties equally to be part of it.
- ► Communicating required information and performance.

> Taking ownership for driving change at all levels within the Department.

12 Roles and Responsibilities of SHO as per Hon'ble Supreme Court Order

- ▶ Working, maintenance & recording of CCTVs at PS
- ▶ To report any fault/malfunctioning of CCTVs to DLOC
- ► To inform any arrest/interrogation during non-functional time of CCTV to DLOC
- > Data maintenance, backup of data, fault rectification

All the aforesaid roles and responsibilities will be covered under various training programs organized and designed by System Integrator

13 <u>Training</u>

System Integrator (SI) will have the major duty for implementing an end to end capacity building program on behalf of UP Police to meet the desired capacity building objectives. The Department will enable the SI to execute the program by providing requisite infrastructural / logistic support like providing access for conducting the training, assist in selection of user group and ensuring attendance of the trainees. However, the SI shall be responsible for the following activities under the scope of capacity building plan.

- a. Identification of Trainers:- SI would be accountable to take initial round of training sessions with the identified set of police officers. SI would conduct a full-fledged training for these identified set of officers. These trained officers would in turn impart trainings to the other identified officers and employees within the department under CCTV based monitoring system. These officers would be identified in consultation with UP police
- b. **Identification of Trainees:** Based on the present framework for management of various police initiatives, Uttar Pradesh Police staff can be classified into following categories for training specific to project
 - Group I: Station House Officer (SHO) shall be responsible for ensuring that the implemented CCTV system is functioning. SHO shall be trained in operating the system and to check the key parameters of the system to ensure that the system runs properly. In case of DLOC requesting any footage from the PS, the SHO shall support DLOC to retrieve footage which is stored. Hence, SHO should also be made aware of how he should use their login credentials to not just access the system but also retrieve footage.
 - Group II: In case of some minor issue, troubleshooting should be able to be done locally. For the same, Computer Operators at the PS should be trained so the basic issues are resolved by them. The computer operators are technically knowledgeable; hence they should have sound knowledge of the entire system. The SI shall also provide SOPs (Standard Operating Procedures) for all minor and major issues to the Computer Operators in Hindi, so that the resolution is reached efficiently for all kinds of issues. The

role of the computer operator shall be that of assisting SHO with the system whenever SHO is having difficulties in operation or has noticed any issues with the implemented system.

Group III: The Commissioner/ SP/SP who commands at the district level, is a member of DLOC. It shall be the responsibility of SP to ensure all the PS systems are up and running. Apart from that, DLOC shall ask the respective PS to compile and send footage on request. In case of footage being available at District Level, the same should be retrieved using credentials. SP can seek technical assistance of Computer Operator wherever required. The login credentials of SP shall be used to not only monitor the systems at PS in their district but also retrieve footage if present in the storage at their office or at PS level. In this group both SP and Computer operator at District Level shall be trained for usage of login credentials, operation of the system and retrieval of footage.

13.1 Develop Training Plan and Curriculum

The SI will be accountable for developing a detailed training strategy / plan for the program in discussion with UP Police covering training approach, environment, training need analysis and rolebased training curriculum with timelines. SI shall work closely with UP Police training team. SI shall also manage along with UP Police in developing an overall effort estimate for capacity building for surveillance System in the State. The training curriculum for the training materials. The training curriculum shall outline the mode of delivery, module structure duration and target audience. Training schedule shall be developed and optimized to reduce business impact and enable effective utilization of Training infrastructure and capacities.

13.2 Theme based Training

- a) **Basic IT Based**: Training for use of basic IT skills including basic computer skills in order to create awareness about the project
- b) **Role Based**: This training should be in a role based, benchmarked and standardized format, multi-lingual and lead to learning and assessment. It should also allow for self-learning and retraining
- c) **Train the Trainer**: In this member of the Police department are needed to be trained within 6 months in order to enable them to further conduct training programs in the Department and thereby reducing the dependency on external party for training purpose.
- d) **System Administrator Training**: Some important members of the Department with good reasoning and aptitude would be trained as System Administrator for troubleshooting issues
- e) **Customization Training**: Design and development of Training manual, User manual/SOPs, operational and Maintenance manuals for CCTV based monitoring System in Uttar Pradesh.

SI shall develop the training material for Computer Based Training, Instructor Led Training, Online User Material/Help Manuals and Job Aids. SI shall also provide detailed training material providing step-by-step approach in soft and hard copies to all Police Stations and offices for reference.

13.3 <u>Training to End Users</u>

Training to the end users using the infrastructure of the Police Department, role-based training for the Senior Officers will be carried out by the System Integrator at the location identified by Police Department. SI will also impart simulated training with some real-life situations. The main objective of conducting such trainings would be to give first-hand view of benefits of the project. To maintain consistency across system trainings, standard templates should be used for each component of a module and most of the training would be instructor led Training. The Instructor led Trainer would cover the session in Power point i.e. course Presentation, Miniature versions of CCTV based monitoring System applicable with dummy sources and the whole will be conducted through a computer-based Training (CBT). Some selected set of police staff with high aptitude group and /or relevant prior training, need to be imparted with the training/skills to act as system administrators and as trouble-shooters.

13.4 Training to Trainers and Evaluation

The System Integrator primary job is to train the trainers of the Police Department within 6 months and to see and monitor their capability to deliver the efficient training program. Training to Trainers will consist of 3 segments as mentioned below.

- I. Workshops / Training covering effective presentation skills and coaching techniques and discussing the benefits and structure of the trainer model.
- II. Formal system training which will consist of all modules of CCTV based monitoring System project relevant for various roles in Police Department.
- III. Teach-back session where trained trainers will present course content and receive feedback regarding content, flow, and presentation techniques. It will include a feedback session where trainers can provide feedback on the training materials, flow, comprehension level, and accuracy.

System Integrator shall then evaluate the effectiveness of all end users' trainings using electronic or manual surveys. SI shall be responsible for analysing the feedback and arrange for / conducting refresher training, wherever needed. UP Police will periodically monitor the training effectiveness through the performance metrics and Service levels and the System Integrator shall comply with the same.

13.5 Implementation Plan

Building capacities at various levels is critical for successful implementation. Also, the training programs would cover general/basic computer awareness programs in addition to CCTV based monitoring System.

This section covers a broad training and capacity building plan to be followed by the SI. However, the SI is required to validate the same and make amendments as per the solution offered. The training plan will have to be shared with UP Police and approved prior to being executed by the SI.

- a) Role Based Training on application Software
 - i. The training should focus on the police officials getting comfortable to CCTV based monitoring System workflow as per their role and build skills to use applications in day to day operations.
 - ii. This training would be personalized according to the unique requirements of each user category. The training program must ensure to cover the following user categories:

Hierarchy	Rank
Senior Level	Commissioner, SSP, SP, ASP, DySP
Middle Level	SHO, SI
Lower Level	Computer Operator, Head Constable and Constable

- b) Train the Trainer (to be completed within 6 months)
 - i. "Train the Trainer" program could be held at a central/zone location or at District Level.
 - ii. The trained trainers would, in turn, conduct training programs for their colleagues at lower levels such as the circles or districts
 - iii. Trainers would be trained to impart training in basic computer awareness and skills, and role-based training on CCTV system.
 - iv. Selected set of police staff with high aptitude group and/or relevant prior training, are to be trained as trainers who would, in turn, train their colleagues.
- c) Training on system administration and troubleshooting.
 - i. Set police personals in Uttar Pradesh Police department with good aptitude and reasoning will be trained for system administration and troubleshooting and provided information related to hardware and software of the entire system.

Training Basic	Type of Training	Content	Applicable to	Method of delivery	Trainer
	Induction Training	About CCTV based monitoring System and components.	Commissioner/ SSP/SP/ASP/DySP, SHO/SI, Computer Operators	Classroom Training	UP Police and System Integrator
General Training	Basic IT Skills	Desktop operations, User admin, application installation, basic computer troubleshooting, Operating Systems, etc.	Commissioner/ SSP/SP/ASP/DySP, SHO/SI	Classroom Training	System Integrator
	Role based	At District Level	Commissioner/ SP/SSP/ASP/DySP	Classroom Training	System Integrator
Functional Training	VMS Software	 Overview of Video surveillance system SOPs Basic Troubleshooting Retrieval of footage 	Computer Operators	Classroom Training	System Integrator

Table 3: Training Plan and Schedule

14 Risk Assessment and Mitigation

Risk management is one of the most critical processes within any project regardless of size, activity or sector. The Project risk management team allows the project team to identify, categorize, prioritize, mitigate or avoid any risk ahead of time. Risk assessment is the determination of quantitative, or qualitative value of risk related to a concrete situation and a recognized threat. It is the process whereby decisions are made to accept a known or assessed risk and / or the implementation of actions to reduce the consequences or probability of occurrence.

Some of the objectives of Risk Management are mentioned below:

- a. Provide visibility within the project of the time and cost impact of an issue and the cost of any corrective actions.
- b. Ensure that the project issues are identified and managed appropriately
- c. Reduce and eliminate harmful threats.
- d. Provide prominence of project issues, ensuring they are escalated appropriately
- e. Provide cost benefit analysis of risk mitigation strategies with respect to various levels of identified risks
- f. Provides a standard framework for risk assessment and risk mitigation.

14.1 Benefits of Risk Management:

The benefits of systematic risk identification and risk management include:

- i. More realistic project planning
- ii. Actions being implemented in time to be effective
- iii. Greater certainty of achieving project goals and project objectives
- iv. Improved loss control
- v. Improved control of project costs
- vi. Increased flexibility because of understanding all options and their associated risks

Given the complexity of project of CCTV based monitoring System in Uttar Pradesh, it is imperative that impediments are predicted and evaluated in advance and strategies are developed to effectually counter them over time. The below mentioned section provides an understanding of the envisaged risks associated with the project.

Table 4: Table for Risk Mitigation

S.No.	Risk Identified	Mitigation	Risk (Impact)
IT Speci	fic risks		
1.	System Integrator (SI) and Vendor lock-in	 Example of Vendor lock-in would be when hardware is purchased, and software is not compatible with Hardware. 	High

S.No.	Risk Identified	Mitigation	Risk (Impact)
	not dentified	II. Appropriate design and specifications to be provisioned in the RFP	
2.	Obsolete Technology / Hardware	 I. Scalability of system could enable upgrade of platform, solutions and features to reduce risks due to obsolescence. II. Operation and Maintenance phase to be provisioned in the RFP. 	Medium
3.	Sustainability of the IT system: After support from SI for IT Solution is withdrawn	 I. Suitable capacity building, knowledge transfers and significant IT capability would be built within the Department. II. Exit plan with handholding is to be provisioned in the RFP document. 	Low
System	Specific risks		
1.	Inability of SI or vendor to acquire and deliver components	 Proper planning needs to be finalized in order to acquire goods and components. Special provision with reference to penalties need to be incorporated in the RFP document 	High
2.	Failure of Vendor to train the Staff	 UP Police to be involved in the project for better efficiency and value addition to the Project Training Plan to be formulated with aim on focusing functional and administrative skills. Provision of capacity building to be incorporated / provisioned in RFP. 	Medium
O&M S	becific risks		
1.	Deployment of resources not as per RFP Scope of Work	Penalty clauses shall be applicable	High
2.	Attrition Rate – High	High skilled professionals to be part of key professionals to be included in RFP the replacement process and resource strictly to be mentioned in RFP	High
3.	Misinterpretation on the Operating procedure within the scope of work	Hand - books dealing with operating procedures and all templates need to be enforced in Scope of work.	Medium

S.No.	Risk Identified	Mitigation	Risk (Impact)
4.	Non- Completion of Scope of work as per the timelines	Delay in work will lead to penalty clause if work is not competed within stipulated timelines.	High
5.	Change management overload	Implementation detailing and the operating procedures with templates needed for detailing all the procedures for scope of work shall be provisioned in the RFP.	High
6.	Stakeholder conflict over proposed changes:	A provision related to conflict management to be provisioned in RFP	High
7.	Absence of Stakeholder frequently can lead to project disruptions	Importance of attendance requirement shall be mandated. In case of any discrepancy, the same shall be addressed in the provision of RFP	Medium
8.	New functionality requirement as per changing needs	New requirements can be added up as an enhancement activity. Success of the project needs to be measured with the current scope only.	High
9.	Change in priorities towards project; lack of funds	Activities to be prioritized based on Project execution and scenario.	High
Commo	n Strategy Risks		
1.	Timelines throughout the project implementation period	Project management committee to monitor and keep an eye on status report. Investments of the Police department are at risk due to slippages in project timelines. Onboard Project Management Consultant for the duration of contract with the SI.	High
2.	System Integrator (SI) / vendor exit	Exit management plan to be shared by SI. This exit plan should consist of well-planned transfer processes, communication plan and contingency plan.	High
3.	Poor performance of SI	Penalties are to be provisioned in the RFP for poor performance by System Integrator.	High
Commo	n People Risks		
1.	Inadequate Training / capacity	Training and capacity building initiatives need to be undertaken by SI, requirements of which would be identified and documented.	High
2.	Leadership change before completion	Provision of the Change management should be provisioned in the RFP which will ensure competent leaders to employed full time	High
3.	Internal resistance to adopt new systems and processes	Change management should be provisioned in the RFP	High
Commo	n Processes Risks		

S.No.	Risk Identified	Mitigation	Risk (Impact)
1.	Disruption of operations and processes due to the implementation of the new initiatives	The provision of the Change management should be provisioned in the Request for Proposal (RFP)	Medium
2.	Insufficient communication on the migration plan leading to confusion	A formal communication strategy and plan would be developed and executed through the concerned offices and working Groups	Medium
Commo	n Implementation Risks		
1.	SI inadequate to support implementation / incomplete implementation	Evaluation and qualification criteria would be designed to minimize risks. Contract could have performance-based penalty clauses. Accordingly, Service Level Agreement (SLA) / penalties are to be provisioned in the Request for Proposal (RFP)	High
2.	Low quality equipment by SI or vendor	All specifications form the RFP shall be complied. Any deviations will lead to Penalties provisioned in Request for Proposal (RFP).	High
3.	Live replications of Data	Live replication of the data shall be provisioned, in case of non-compliance accordingly penalty shall be imposed and incorporated in Request for Proposal (RFP).	High
Location	n Specific Risks		
1.	SI not able to deliver projects in vulnerable locations due to security related concerns / Threats	The UP Police should provide adequate security to the System Integrator (SI) for smooth functioning of the project at sensitive Police Station.	High
2.	SI not able to deliver project in far flung areas	UP police to verify / access the sites feasibility as claimed by system integrator (SI) and work on the modalities for implementation without any delay. Special Provision with reference to penalties to be incorporated in the Request for Proposal (RFP) documents if system integrator (SI) fails to commission even after UP Police's intervention and assurance.	Medium

14.2 Key performance indicators (KPIs)

KPIs provides a focus for strategic and operational improvement, create an analytical basis for decision making. They are indicators of progress toward an intended result. As part of the

implementation the KPIs have been defined that can be used to monitor and measure effectiveness

Infrastructure	Availability of Surveillance monitoring system	Percentage of the surveillance system available for monitoring.		
	Availability of real-time	Proportion of real-time information available		
	information	through the field devices		
	Mean Time Between	The amount of time passed between network /		
	Failures (MTBF)	system / application glitches or breakdown		
Network	Mean Time to Repair	The average amount of time needed to fix the		
Network	(MTTR)	network after service interruption is disclosed		
	Network Performance	The number of days between network		
	Reporting Frequency	performance report creation		
		Cycle time from request to resolution		
		Average cycle time from request to delivery		
	Efficiency performance	Number of staffs involved		
Others		Number of reminders		
Others		Number of alerts		
		Average time lag between identification of		
	Compliance	external compliance issues and resolution		
		Frequency (in days) of compliance reviews		

15 <u>Designing of Standard Operating Procedure (SOP) for Surveillance System</u>

System Integrator will make standard operating procedure of system operations for all Police Stations and District HQs (DLOC). All SOPs will be self-explanatory about the working of surveillance system and same will be the part of training content.

16 Indicative Project Cost and Financing- Summary Table

	Project Budgetry Solution					IC
	District Police Stations - 153	-		249	7%	7%
Sr. N o.	Description	Qty	Unit Cost	Implementation phase and 3 Yr (warranty period)	AMC/O&M Y4	AMC/O&M Y5
1	Police Stations with 16 Camera	796	14,27,234	1,13,60,78,582	6,97,59,211	6,97,59,211
2	Police Stations with 12 Camera	297	11,62,098	34,51,43,035	2,11,92,993	2,11,92,993
3	Police Stations with 8 Camera	437	9,67,641	42,28,59,169	2,59,65,037	2,59,65,037
4	Mahila Help desk with Additional Camera	79	21,665	17,11,500	1,05,092	1,05,092
			TOTAL (A)	1,90,57,92,287	11,70,22,333	11,70,22,333
5	UNIT Police Stations CRD			4 72 22 227	28.00.070	28.00.670
5	UNIT Police Stations GRP UNIT Police Stations	65	7,26,513	4,72,23,337	28,99,679	28,99,679
6	Cyber+EOW+SIT+ATS+Vigl	34	6,49,855	2,20,95,060	13,56,714	13,56,714
7	UNIT Police Stations APT- AHT	150	2,91,516	4,37,27,436	26,85,018	26,85,018
			TOTAL (B)	11,30,45,834	69,41,411	69,41,411
	DHC	λ - 78				
8	DHQ	78	9,56,834	7,46,33,046	45,82,731	45,82,731
			TOTAL (C)	7,46,33,046	45,82,731	45,82,731
		Back UP				
9	Police Stations - UPS /Solar	1530	1,23,995	18,97,12,416	1,16,49,008	1,16,49,008
10	Unit Police Stations - UPS	249	31,920 TOTAL (D)	79,48,080 19,76,60,496	4,88,040 1,21,37,048	4,88,040 1,21,37,048
	Band	19,70,00,490	1,21,57,046	1,21,57,046		
11						
11	Internet connectivity at PS (12-20 Mbps)	1779	54,000	9,60,66,000	3,20,22,000	3,20,22,000
12	Internet connectivity at DHQ (100 Mbps)	78	1,80,000	1,40,40,000	46,80,000	46,80,000
		70	TOTAL (E)	1,01,06,000	3,67,02,000	3,67,02,000
	Ν	MS		1,01,00,000	3,07,02,000	5,07,02,000
13	NMS with Centralized Server	1	57,00,000	57,00,000	3,50,000	3,50,000
			TOTAL (F)	57,00,000	3,50,000	3,50,000
	Manj	ower				
14	Field Engineer for Support	1	1,85,17,824	1,85,17,824	70,56,248	75,50,185
	TOTAL (G)			1,85,17,824	70,56,248	75,50,185
	Project Management					
	Project Management					
4.5	(Implementation) and (3+2 yr			3,81,90,690	99,22,848	1,06,17,448
15						
		2 . 1 1)		3,81,90,690	99,22,848	1,06,17,448
	TOTAL (A+B+C+D+E+F+C	9+H)		2,46,36,46,176	19,47,14,619	19,59,03,156
	Total Cost including Tax (Average Tax @ 18%)			2,90,71,02,488	22,97,63,251	23,11,65,724

	Server Room					
16	Server Room renovation/ construction cost inclusive of Tax	1530	1,50,000	22,95,00,000		
10	16 construction cost inclusive of Tax TOTAL cost (I)		22,95,00,000	-	-	
	Total cost including Tax			3,13,66,02,488	22,97,63,251	23,11,65,724

17 Assumptions

Following assumptions have been considered as part of project design:

S.no	Assumptions
1	Each camera to be 2 Megapixels
2	Electricity including any electricity meters at Camera sites to be provided by UP Police. The same has not been included in the costing.
3	UPS based power backup at Police Stations will provide 4 hours of backup power.
4	Solar Panel based power backup at Police Stations will provide 12 hours of support.
5	Costing is inclusive of all taxes/duties etc. at an average rate of 18%. Actual Taxes may differ as per different BOQ items.
6	Costing may change subject to ground conditions.

18 Annexure A- Detailed Pricing of CCTV Surveillance solution for Uttar Pradesh Police Stations

18.1 Cost Calculation of 796 District Police Stations with 16 cameras

Sr.N	Item discription	Qty	Unit Price	Total Price
0.		Qty	Capex	Capex
	Police Station Setup			
1	Cameras	16		
а	Bullet Camera with IR & SD Card	10	14,000	1,40,000
b	Dome Camera with IR & SD Card	6	13,000	78,000
С	External Mic	16	960	15,360
2	VMS Channel License	16	2,400	38,400
3	VMS Base License	1	24,000	24,000
4	Storage `120 TB usable and compute/recording solution	1	6,50,000	6,50,000
5	Router	1	24,000	24,000
6	L2 Switch 24 port POE+	1	28,000	28,000
7	Industrial Ethernet Switch L2 8 Port POE+	1	50,000	50,000
8	Workstation with Monitor 21"	1	28,000	28,000
9	Display 42"	1	35,000	35,000
	Sub Total (A)			11,10,760
	PS Infrastructure Set UP			
10	Internal Concealed cabling in mtr.	800	44	35,200
11	UTP Cat-6A Cable (mtr)	800	10	7,680
12	UTP Patch Cord 1 mtr	60	180	10,800
13	24 port UTP Patch Panel	1	2,000	2,000
14	single port Faceplate with keystone & Gangbox	18	140	2,520
15	24U Rack with dual PDU & Accessories	1	15,000	15,000
	Sub Total (B)			73,200
	NON-IT Components			
16	Non-IT -Table & Chair	1	5,000	5,000
17	Air Conditional 1.5 Ton industrial grade	1	60,000	60,000
18	Earthing	1	3,000	3,000
	Sub Total (c)			68,000
	Total (A+B+C)			12,51,960

18.2 Cost Calculation of 279 District Police Stations with 12 cameras

Sr.No	Item discription	Qty	Unit Price	Total Price
•	Delice Station Catur		Capex	Capex
1	Police Station Setup	12		
1	Cameras Bullet Camera with IR & SD Card	8	14,000	1 12 000
a b	Dome Camera with IR & SD Card		14,000	1,12,000
b	External Mic	4	13,000 960	52,000
с 2	VMS Channel License	12	2,400	11,520 28,800
3	VMS Base License	12	24,000	28,800
4	Storage 90 TB usable and compute/recording solution	1	5,00,000	5,00,000
5	Router	1	24,000	24,000
6	L2 Switch 12 port POE+	1	22,000	22,000
7	Industrial Ethernet Switch L2 8 Port POE+	1	50,000	50,000
8	Workstation with Monitor 21"	1	28,000	28,000
9	Display 42"	1	35,000	35,000
	Sub Total (A)			8,87,320
	PS Infrastructure Set UP			
10	Internal Concealed cabling in mtr.	64 0	44	28,160
11	UTP Cat-6A Cable (mtr)	64 0	10	6,144
12	UTP Patch Cord 1 mtr	60	180	10,800
13	24 port UTP Patch Panel	1	2,000	2,000
14	single port Faceplate with keystone & Gangbox	14	140	1,960
15	24U Rack with dual PDU & Accessories	1	15,000	15,000
	Sub Total (B)			64,064
	NON-IT Components			· · ·
16	Non-IT -Table & Chair	1	5,000	5,000
17	Air Conditional 1.5 Ton industrial grade	1	60,000	60,000
18	Earthing	1	3,000	3,000
	Sub Total (c)		, -	68,000
				00,000
	Total (A+B+C)			10,19,384

18.3 Cost Calculation of 437 District Police Stations with – 8 cameras

Sr.No	Item description	Qty	Unit Price Capex	Total Price Capex
•	Police Station Setup		Cupex	cuper
1	Cameras	8		
а	Bullet Camera with IR & SD Card	4	14,000	56,000
b	Dome Camera with IR & SD Card	4	13,000	52,000
С	External Mic	8	960	7,680
2	VMS Channel License	8	2,400	19,200
3	VMS Base License	1	24,000	24,000
4	Storage 60 TB usable and compute/recording solution	1	4,25,000	4,25,000
5	Router	1	24,000	24,000
6	L2 Switch 8 port POE+	1	18,000	18,000
7	Industrial Ethernet Switch L2 8 Port POE+	1	50,000	50,000
8	Work Station with Monitor 21"	1	28,000	28,000
9	Display 32"	1	25,000	25,000
	Sub Total (A)			7,28,880
	PS Infrastructure Set UP			
10	Internal Concealed cabling in mtr.	480	44	21,120
11	UTP Cat-6A Cable (mtr)	480	10	4,608
12	UTP Patch Cord 1 mtr	60	180	10,800
13	24 port UTP Patch Panel	1	2,000	2,000
14	single port Faceplate with keystone & Gangbox	10	140	1,400
15	15U Rack with dual PDU & Accessories	1	12,000	12,000
	Sub Total (B)			51,928
	NON-IT Components			
16	Non-IT -Table & Chair	1	5,000	5,000
17	Air Conditional 1.5 Ton industrial grade	1	60,000	60,000
18	Earthing	1	3,000	3,000
	Sub Total (c)			68,000
	Total (A+B+C)			8,48,808

18.4	Cost Calculation	79 Mahila Police	Chowki Paramarsh	Kendra CCTV
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Sr.No.	Item description	Qty	Unit Price Capex	Total Price Capex
	Police Station Setup			
1	Camera's	1	-	-
а	Bullet Camera IR & SD Card	0	14,000	-
b	Dome Camera IR & SD Card	1	13,000	13,000
С	External Mic	1	960	960
2	VMS Channel License	1	2,400	2,400
3	VMS Base License	0	24,000	-
4	Storage and compute/recording solution	0	3,00,000	-
5	Router	0	24,000	-
6	L2 Switch 24 port POE+	0	28,000	-
7	IE Switch L2 8 Port POE+	0	50,000	-
8	Workstation with Monitor 21"	0	28,000	-
9	Display 32"	0	35,000	-

Sub Total (A)

16,360

	PS Infrastructure Set UP			
12	Internal Concealed cabling (mtr)	40	44	1,760
13	UTP Cat-6A Cable (mtr)	40	10	384
14	UTP Patch Cord 1 mtr	2	180	360
15	24 port UTP Patch Panel	0	2,000	-
16	single port Faceplate with keystone & Gangbox	1	140	140
17	24U Rack with dual PDU & Accessories	0	15,000	-
	Sub Total (B)			2,644
	NON-IT Components			
18	NON-IT Components Non-IT -Table & Chair	0	5,000	-
18 19	•	0	5,000 30,000	-
	Non-IT -Table & Chair	-		-
19	Non-IT -Table & Chair Air Conditional 1Ton	0	30,000	

Total (A+B+C) 19,004

18.5 Cost Calculation of 150 Non-DEF Police Stations CCTV

Sr.No.	Item description	Qty	Unit Price Capex	Total Price Capex
	Police Station Setup			
1	Camera's	2	-	-
А	Bullet Camera with IR & SD Card	2	14,000	28,000
В	Dome Camera with IR & SD Card	0	13,000	-
С	External Mic	2	960	1,920
2	Storage 15 TB usable and compute/recording solution	1	1,50,000	1,50,000
3	Router	1	24,000	24,000
4	L2 Switch 16 port POE+	0	28,000	-
5	IE Switch L2 8 Port POE+	0	50,000	-
6	Workstation with Monitor 21"	1	28,000	28,000
7	Display 32"	0	25,000	-

Sub Total (A)		2,31,920
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	PS Infrastructure Set UP			
8	Internal Concealed cabling (mtr)	160	44	7,040
9	UTP Cat-6A Cable (mtr)	160	10	1,536
10	UTP Patch Cord 1 mtr	10	180	1,800
11	24 port UTP Patch Panel	1	2,000	2,000
12	single port Faceplate with keystone & Gangbox	3	140	420
13	9U Rack with dual PDU & Accessories	1	8,000	8,000
	Sub Total (B)			20,796
	NON-IT Components			
14	Non-IT -Table	0	5,000	-
15	Air Conditional 1Ton	0	30,000	-
16	Earthing	1	3,000	3,000
	Sub Total (c)			3,000

Total (A+B+C)		2,55,716

18.6 Cost Calculation of 65 Non-DEF Police Stations

Sr.No	Item discription	Qty	Unit Price Capex	Total Price Capex
	Police Station Setup			
1	Cameras	6		
а	Bullet Camera with IR & SD Card	4	14,000	56,000
b	Dome Camera with IR & SD Card	2	13,000	26,000
С	External Mic	6	960	5,760
2	Storage 50 TB usable and compute/recording solution	1	4,00,000	4,00,000
3	Router	1	24,000	24,000
4	L2 Switch 12 port POE+	1	22,000	22,000
5	IE Switch L2 8 Port POE+	0	50,000	-
6	Workstation with Monitor 21"	1	28,000	28,000
7	Display 32"	0	25,000	-
	Sub Total (A)			5,61,760
	PS Infrastructure Set UP			
8	Internal Concealed cabling (mtr)	320	44	14,080
9	UTP Cat-6A Cable (mtr)	320	10	3,072
10	UTP Patch Cord 1 mtr	30	180	5,400
11	24 port UTP Patch Panel	1	2,000	2,000
12	single port Faceplate with keystone & Gangbox	7	140	980
13	15U Rack with dual PDU & Accessories	1	12,000	12,000
	Sub Total (B)			37,532
	NON-IT Components			
14	Non-IT -Table	1	5,000	5,000
15	Air Conditional 1Ton	1	30,000	30,000
16	Earthing	1	3,000	3,000
	Sub Total (c)			38,000
	Total (A+B+C)			6,37,292

18.7 Cost Calculation of 34 Non-DEF Police Stations

Sr.No	Item discription	Qty	Unit Price Capex	Total Price Capex
	Police Station Setup			
1	Cameras	5		
а	Bullet Camera with IR & SD Card	3	14,000	42,000
b	Dome Camera with IR & SD Card	2	13,000	26,000
С	External Mic	5	960	4,800
2	Storage 40 TB usable and compute/recording solution	1	3,50,000	3,50,000
3	Router	1	24,000	24,000
4	L2 Switch 12 port POE+	1	22,000	22,000
5	IE Switch L2 8 Port POE+	0	50,000	-
6	Work Station with Monitor 21"	1	28,000	28,000
7	Display 32"	0	25,000	-
	Sub Total (A)			4,96,800
	PS Infrastructure Set UP			
8	Internal Concealed cabling (mtr)	280	44	12,320
9	UTP Cat-6A Cable (mtr)	280	10	2,688
10	UTP Patch Cord 1 mtr	30	180	5,400
11	24 port UTP Patch Panel	1	2,000	2,000
/12	single port Faceplate with keystone & Gangbox	6	140	840
13	15U Rack with dual PDU & Accessories	1	12,000	12,000
	Sub Total (B)			35,248
	NON-IT Components			
14	Non-IT -Table	1	5,000	5,000
15	Air Conditional 1Ton	1	30,000	30,000
16	Earthing	1	3,000	3,000
	Sub Total (c)			38,000
	Total (A+B+C)			5,70,048

18.8 Cost Calculation of District HQ (DLOC) CCTV

Sr.No.	Item discription	Qty	Unit Price Capex	Total Price Capex
	DLOC- District Location			
1	Router	1	24,000	24,000
2	L2 Switch 8 port POE+	1	18,000	18,000
3	Workstation with monitor 21" (Remote Viewing & Health Monitoring)	1	24,000	24,000
4	Storage average 150 TB	1	6,50,000	6,50,000
5	Display 42"	1	35,000	35,000
6	UPS with 4 hrs Backup	1	28,000	28,000
7	Interal Concealed cabling	80	44	3,520
8	UTP Cat-6A Cable (mtr)	80	10	768
9	UTP Patch Cord 1 mtr	32	180	5,760
10	24 port UTP Patch Panel	1	2,000	2,000
11	single port Faceplate with keystone & Gangbox	2	140	280
12	24U Rack with dual PDU & Accessories	1	15,000	15,000
13	Non-IT Table & Chair	0	5,000	-
14	Air Conditional 1 Ton	1	30,000	30,000
15	Earthing	1	3,000	3,000
	Total			8,39,328

18.9 Cost calculation of Manpower Required for CCTV

Sr.No.	Item description	Qty	Unit Price	Total Price
	Manpower			
1	Field Engineer for all Police Station	8	50,000	4,00,000
2	Project Manager	1	80,000	80,000
	Total		1,30,000	4,80,000
	For 12 months			57,60,000

18.10 Cost calculation of Power Back up for CCTV Surveillance solution

	Power Backup Setup Pol	ons - 1530			
Sr.No.	Item description	Unit Price	Total Price		
а	UPS 4 Hrs backup	472	28,000	1,32,16,000	
b	UPS 1/2 Hrs backup	1058	4,800	50,78,400	
С	Solar system with 12 hrs backup	1058	1,40,000	14,81,20,000	
	Sub Total (D)			16,64,14,400	
	Average of 1530 PS	1,08,768			

	Power Backup Setup Non- DEF Police Stations- 249									
Sr.No.	Item description	Unit Price	Total Price							
а	UPS 4 Hrs backup	249	28,000	69,72,000						
b	UPS 1/2 Hrs backup	0	4,800	-						
С	Solar system with 12 hrs backup	0	1,40,000	-						
	Sub Total (D)	69,72,000								
	Average of 249 PS	28,000								

18.11 Cost Calculation of Internet for CCTV Surveillance solution

Sr.No.	Item description	Qty	Unit Price	Total Price	
	Internet Broadband				
1	Police station 12-20 Mbps* (One Year)	1779	18,000	3,20,22,000	
2	District HQ (DLOC) 100 Mbps (One Year)	78	60,000	46,80,000	
Total			78,000	3,67,02,000	

*Bandwidth may vary between 12-20 Mbps as the number of cameras installed in the police station

18.12 Cost Calculation of Project Ma	nagement for CCTV
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Sr. No.	Description	Qty	Unit cost	Total cost 1st year	2nd yr	3rd Yr	4th Yr	5th Yr
1	Project Management Implementation (9 Month)	5	2,70,000	1,21,50,000				
2	Project Management (Post Implementation)	2.5	32,40,000	81,00,000	86,67,000	92,73,690	99,22,848	1,06,17,448
	·		TOTAL (H)	2,02,50,000	86,67,000	92,73,690	99,22,848	1,06,17,448

19 ANNEXURE B- Data received from PS across Uttar Pradesh

A. Camera Details for 1530 Police Stations

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1	AGRA	ACHHNERA	8	23	2	1	8	1
2	AGRA	BAH	8	19	1	1	6	1
3	AGRA	BARHAN	10	28	1	1	5	1
4	AGRA	BASAI ARELA		7	2	1	3	1
5	AGRA	BASAI JAGNER	10	21	1	1		1
6	AGRA	BASAUNI	8	12	1	1	5	2
7	AGRA	СННАТТА	0	7	1	1	4	1
8	AGRA	CHITRAHAT	10	10	1	1	6	1
9	AGRA	DAUKI	10	19	2	1	4	1
10	AGRA	ETMADDAULA	0	18	1	1	3	1
11	AGRA	ETMADPUR		27	1	1	4	1
12	AGRA	FATEHABAD	6	14	1	1	3	1
13	AGRA	FATEHPUR SIKRI	6	24	1	1	3	1
14	AGRA	HARI PARVAT	0	27	1	1	4	1
15	AGRA	IRADAT NAGAR	10	24	1	1	6	1
16	AGRA	JAGDISHPURA	0	17	2	1	2	1
17	AGRA	JAGNER	8	26	1	3	6	1
18	AGRA	JAITPUR	8	8	1	1	4	1
19	AGRA	KAGARAUL	16	12	1	1	1	1
20	AGRA	KHANDAULI	12	35	1	1	3	1
21	AGRA	KHERA RATHORE	8	12	1	1	10	1
22	AGRA	KHERAGARH	8	22	1	1	6	1
23	AGRA	KOTWALI	0	20	1	1	2	1
24	AGRA	LOHAMANDI	0	28	1	1	5	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
25	AGRA	MADAN MOHAN GATE	0	14	1	1		1
26	AGRA	MAHILA THANA	0	26	1	1	5	1
27	AGRA	MALPURA	13	16	1	1	20	4
28	AGRA	MANSUKHPURA		14	2	1	5	1
29	AGRA	MANTOLA	0	13	1	1	2	1
30	AGRA	NAI-KI-MANDI	0	18	1	1		1
31	AGRA	NEW AGRA	0	15	1	1	3	1
32	AGRA	NIBOHARA	14	10	1	1		1
33	AGRA	PINAHAT	8	20	1	1	6	1
34	AGRA	PINDOURA	8	10	1	1	12	2
35	AGRA	RAKABGANJ	0	19	1	1	5	2
36	AGRA	SADAR BAZAR	0	23	2	1	5	1
37	AGRA	SAIYAN	8	25	1	1	4	1
38	AGRA	SHAHGANJ	0	14	2	1	3	1
39	AGRA	SHAMSHABAD	6	9	1	1	5	1
40	AGRA	SIKANDARA	0	28	1	1	4	1
41	AGRA	TAJGANJ	0	15	1	1	4	1
42	AGRA	TOURISM	2	28	2	1	6	1
43	AGRA	KAMLANAGAR	0	17	1	1	3	1
44	ALIGARH	AKRABAD	7	17	1	1	6	1
45	ALIGARH	ATRAULI	10	20	1	1	18	1
46	ALIGARH	BANNADEVI	4	19	2	1	1	1
47	ALIGARH	BARLA	12	22	1	1	7	1
48	ALIGARH	CHANDAUS	10	13	1	1	2	1
49	ALIGARH	CHHARRA	8	16	1	1	5	1
50	ALIGARH	CIVIL LINES	4	21	1	1	4	1
51	ALIGARH	DADON	12	17	1	1	4	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
52	ALIGARH	DELHI GATE	4	19	2	1		1
53	ALIGARH	GABHANA	6	13	1	1	2	1
54	ALIGARH	GANDHI PARK	4	23	2	1	2	1
55	ALIGARH	GANGIRI	8	17	1	1	4	1
56	ALIGARH	GAUNDA	10	18	1	1	3	1
57	ALIGARH	HARDUAGANJ	10	18	2	1	4	1
58	ALIGARH	IGLAS	10	20	1	1	5	1
59	ALIGARH	JAWAN	10	18	1	1	6	1
60	ALIGARH	KHAIR	10	21	1	1		1
61	ALIGARH	KOTWALI NAGAR	4	18	1	1	6	1
62	ALIGARH	LODHA	12	12	2	1	12	1
63	ALIGARH	MADRAK	10	21	1	1	4	1
64	ALIGARH	MAHILA THANA	4	19	1	1		1
65	ALIGARH	PALIMUKIMPUR	12	18	1	1	6	1
66	ALIGARH	PISAWA	10	13	1	1	13	1
67	ALIGARH	QUARSI		21	1	1	4	1
68	ALIGARH	MAHUA KHEDA		74	1	1		1
69	ALIGARH	SASNI GATE	4	18	1	1	3	1
70	ALIGARH	TAPPAL	14	14	1	1	2	1
71	ALIGARH	VIJAYGARH	10	21	2	1	6	2
72	ALIGARH	RORAVAR		10	1	1		1
73	ALIGARH	GODHA		10*				
74	ALIGARH	GORAI		10*				
75	AMBEDKAR NAGAR	AHIRAULI	12	15	2	1	4	2
76	AMBEDKAR NAGAR	AKBARPUR	4	26	2	1	8	2
77	AMBEDKAR NAGAR	ALAPUR	8	11	1	1	2	1
78	AMBEDKAR NAGAR	ALIGANJ	2	12	1	1		

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
79	AMBEDKAR NAGAR	BASKHARI	8	23	1	1	9	2
80	AMBEDKAR NAGAR	BHITI	14	15	1	1	4	2
81	AMBEDKAR NAGAR	HANSWAR	8	9	1	1	2	1
82	AMBEDKAR NAGAR	IBRAHIMPUR	10	8	1	1	7	2
83	AMBEDKAR NAGAR	JAHANGIRGANJ	10	13	1	1	2	2
84	AMBEDKAR NAGAR	JAITPUR	10	12	1	1	3	2
85	AMBEDKAR NAGAR	JALALPUR	5	13	2	1	2	2
86	AMBEDKAR NAGAR	MAHARUAA	15	10	1	1	2	1
87	AMBEDKAR NAGAR	MAHILA THANA	15	5	1	1		
88	AMBEDKAR NAGAR	MALIPUR	12	7	1	1		
89	AMBEDKAR NAGAR	RAJESULTANPUR	8	12	1	1	6	2
90	AMBEDKAR NAGAR	SAMASPUR/BEWANA	10	14	2	1	1	1
91	AMBEDKAR NAGAR	SAMMANPUR	10	15	1	1	3	1
92	AMBEDKAR NAGAR	TANDA	4	12	2	2	1	1
93	AMBEDKAR NAGAR	ΚΑΤΚΑ	12	5	1	1	5	2
94	AMETHI	AMETHI	4	5	1	1	7	1
95	AMETHI	BAZARSHUKUL	8	5	2	3	21	2
96	AMETHI	FURSATGANJ	8	5	2	1	11	2
97	AMETHI	GAURIGANJ	4	5	1	1	12	2
98	AMETHI	JAGDISHPUR	4	5	1	1	12	1
99	AMETHI	JAMO	5	5	1	2	8	1
100	AMETHI	JAYAS	6	5	2	2	10	2
101	AMETHI	KAMRAULI	2	5	1	2	17	2
102	AMETHI	MAHILA THANA	4	5	1	1	10	1
103	AMETHI	MOHANGANJ	6	5	1	1		1
104	AMETHI	MUNSHIGANJ	10	5	1	1	8	1
105	AMETHI	MUSAFIRKHANA	4	5	2	3	22	3

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
106	AMETHI	PIPARPUR	10	5	1	1	7	1
107	AMETHI	SANGRAMPUR	12	5	1	2	16	3
108	AMETHI	SHIVRATANGANJ	8	5	2	2	16	2
109	AMETHI	RAMGANJ	9	5	1	1	10	1
110	AMROHA	ADAMPUR	10	10	1	1	10	1
111	AMROHA	AMROHA DEHAT	6	12	1	2	2	1
112	AMROHA	AMROHA NAGAR	4	14	1	2	7	1
113	AMROHA	BACHRAUN	10	8	2	1	2	1
114	AMROHA	MANDI DHANAURA	5	14	1	1	6	1
115	AMROHA	DIDAULI	9	8	1	1	10	2
116	AMROHA	GAJRAULA	8	13	1	2	7	3
117	AMROHA	HASANPUR	10	15	2	1	5	2
118	AMROHA	NAUGAWA SADAT	10	14	1	1	3	1
119	AMROHA	RAJABPUR	14	6	1	1		
120	AMROHA	SAIDNAGLI	9	12	1	1	9	3
121	AMROHA	MAHILA THANA	9	8	1	1	1	1
122	AMROHA	REHRA	9	8	1	1	2	1
123	AURAIYA	ACHHALDA	5	15	1	2	13	1
124	AURAIYA	AIRWA KATRA	10	13	2	2	9	1
125	AURAIYA	AJITMAL	10	17	2	3	14	3
126	AURAIYA	kotwali AURAIYA	5	12	1	1	11	2
127	AURAIYA	AYANA	10	14	2	3	14	3
128	AURAIYA	BELA	5	17	1	5	16	2
129	AURAIYA	BIDHUNA	6	13	1	2	20	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
130	AURAIYA	DIBIYAPUR	8	15	1	2	14	1
131	AURAIYA	MAHILA THANA	5	6	3	1	4	1
132	AURAIYA	PHAPHOOND	5	16	1	4	13	3
133	AURAIYA	SAHAYAL	5	8	1	3	9	1
134	AYODHYA	CANTT	4	4	1	2	5	3
135	AYODHYA	GOSAINGANJ	10	5	1	1	5	3
136	AYODHYA	HAIDERGANJ	10	3	1	2	6	8
137	AYODHYA	INAYATNAGAR	10	3	1	0	5	7
138	AYODHYA	KHANDASA	14	5	1	1	7	3
139	AYODHYA	KOTWALI AYODHYA	4	5	1	3	7	1
140	AYODHYA	KOTWALI BIKAPUR	8	2	1	1	6	2
141	AYODHYA	KOTWALI NAGAR	4	5	1	2	3	3
142	AYODHYA	KOTWALI RUDAULI	12	3	1	0	7	6
143	AYODHYA	KUMARGANJ	10	5	1	2	7	1
144	AYODHYA	MAHILA THANA	4	2	1	1	6	1
145	AYODHYA	MAHRAJGANJ	6	2	2	1	8	1
146	AYODHYA	MAWAI	12	5	1	1	5	4
147	AYODHYA	PATRANGA	12	3	1	2	7	5
148	AYODHYA	PURAKALANDAR	13	6	1	1	8	6
149	AYODHYA	RAMJANAM BHUMI	4	4	1	1	5	5
150	AYODHYA	RAUNAHI	10	3	1	2	4	11
151	AYODHYA	TARUN	12	5	1	1	6	2
152	AZAMGARH	AHRAULA	10	9	1	1	4	
153	AZAMGARH	ATRAULIA	8	6	1	1	7	
154	AZAMGARH	BARDAH	12	8	1	1	7	
155	AZAMGARH	BILARIYAGANJ	8	4	1	1	3	
156	AZAMGARH	DEOGAON	12	8	1	1	8	

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
157	AZAMGARH	DIDARGANJ	8	10	1	1	10	
158	AZAMGARH	GAMBHIRPUR	7	8	1	1	6	
159	AZAMGARH	JAHANAGANJ	4	9	1	1	4	
160	AZAMGARH	JEANPUR	4	7	1	1	19	
161	AZAMGARH	KANDHRAPUR	6	6	1	1	7	
162	AZAMGARH	KAPTANGANJ	8	7	1	1	17	
163	AZAMGARH	KOTWALI	2	10	1	1	8	
164	AZAMGARH	MAHILA THANA	2	2	1	1	4	
165	AZAMGARH	MAHRAJGANJ	8	8	1	1	5	
166	AZAMGARH	MEHNAGAR	6	9	1	1	8	
167	AZAMGARH	MEHNAJPUR	12	9	2	1	7	
168	AZAMGARH	MUBARKPUR	4	7	1	1	7	
169	AZAMGARH	NIZAMABAD	4	9	1	1	8	
170	AZAMGARH	PAWAI	6	10	1	1	8	
171	AZAMGARH	PHOOL PUR	4	9	1	1	8	
172	AZAMGARH	RANI-KI-SARAI	12	9	1	1	4	
173	AZAMGARH	RAUNAPAR	8	11	2	1	20	
174	AZAMGARH	SARAIMEER	4	8	1	1	9	
175	AZAMGARH	SIDHARI	2	7	1	1	6	
176	AZAMGARH	TAHABARPUR	8	10	1	1	6	
177	AZAMGARH	TARWA	12	9	1	1	5	
178	BADAUN	ALAPUR	10	13	1	1	1	1
179	BADAUN	BILSI	10	9				
180	BADAUN	BINAWAR	6	9	1	1	6	1
181	BADAUN	BISAULI	6	23	1	1	10	1
182	BADAUN	CIVIL LINES	2	14	1	1	1	1
183	BADAUN	DATAGANJ	6	6	1	1	2	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
184	BADAUN	FAIZ GANJ BEHATA	7	17	2	1	4	1
185	BADAUN	HAZARATPUR	5	18	1	1	4	1
186	BADAUN	ISLAM NAGAR	10	8	2	1	4	1
187	BADAUN	KOTWALI	4	26	1	1	5	1
188	BADAUN	KUNWAR GAON	5	7	1	1	3	1
189	BADAUN	MAHILA THANA	2	5				
190	BADAUN	MOOSA JHAG	12	17	1	1	4	1
191	BADAUN	MUJARIYA	15	18	1	1	2	1
192	BADAUN	QADAR CHOWK	8	58	1	4	7	2
193	BADAUN	SAHASWAN	5	10	1	1	4	1
194	BADAUN	UGHAITI	10	9	1	1	3	1
195	BADAUN	UJHANI	4	28	1	1	1	1
196	BADAUN	USAWAN	12	5	1	1	2	1
197	BADAUN	USHAIT	8	17	1	1	4	1
198	BADAUN	WAZIRGANJ	8	23	1	1	5	1
199	BADAUN	ZARIF NAGAR	12	10	1	1	4	1
200	BAGHPAT	BAGHPAT	2	17	1	2	12	2
201	BAGHPAT	BALENI	12	7	1	2	8	2
202	BAGHPAT	BARAUT	6	6	1	1	9	3
203	BAGHPAT	BINAULI	2	5	1	3	13	3
204	BAGHPAT	CHANDI NAGAR	12	14	1	3	10	2
205	BAGHPAT	CHHAPRAULI	4	2	1	2	14	3
206	BAGHPAT	DOGHAT	12	10				
207	BAGHPAT	KHEKRA	5	25	1	3	11	2
208	BAGHPAT	MAHILA THANA	4	2	1	2	8	1
209	BAGHPAT	RAMALA	19	2	1	1	10	2
210	BAGHPAT	SINGHAWLI AHIR	12	7	1	1	4	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
211	BAHRAICH	MATERA	14	13	1	1	2	1
212	BAHRAICH	BAUNDI	10	15	1	1	7	2
213	BAHRAICH	DARGAHSAREEF	8	11	1	1	2	1
214	BAHRAICH	FAKHARPUR	14	18	1	1	6	1
215	BAHRAICH	HARDI	16	17	1	1	4	1
216	BAHRAICH	HUZOORPUR	17	19	1	1	4	2
217	BAHRAICH	JARWAL ROAD	10	16	1	1	4	1
218	BAHRAICH	KAISHERGANJ	8	17	1	1		1
219	BAHRAICH	KHAIRIGHAT	14	18	1	1	5	1
220	BAHRAICH	KOTWALI DEHAT	8	17	1	4	9	2
221	BAHRAICH	KOTWALI NAGAR	5	11	1	1	3	2
222	BAHRAICH	MAHILA THANA	6	13	1	1	2	3
223	BAHRAICH	MOTIPUR	12	27	1	1	6	3
224	BAHRAICH	MURTIHA	14	18	1			
225	BAHRAICH	NANPARA	12	17	1	3	4	2
226	BAHRAICH	NAWABGANJ	11	22	1	1	4	2
227	BAHRAICH	PAYAGPUR	10	17	2	1	3	4
228	BAHRAICH	RAMGAON	15	16	1	1	2	1
229	BAHRAICH	RANIPUR	15	17	1	1	4	1
230	BAHRAICH	RISIA	8	15	1	1		2
231	BAHRAICH	RUPAI DIHA	10	21	1	1	8	2
232	BAHRAICH	SUJAULI	11	22	1	1	4	1
233	BAHRAICH	VISHESHARGANJ	8	18	1	1	6	1
234	BALLIA	BAIRIA	8	8	1	3	14	4
235	BALLIA	BANSDEEH	7	8	1	1	13	1
236	BALLIA	BANSDEEH ROAD	7	8	1	1	10	1
237	BALLIA	BHIMPURA	6	8				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
238	BALLIA	CHITWARA GOAN	6	8	1	3	19	1
239	BALLIA	DOKATI	9	8	1	3	11	2
240	BALLIA	DUBHAR	9	8				
241	BALLIA	GADWAR	7	8	1	1	5	1
242	BALLIA	HALDI	9	8	1	1	13	1
243	BALLIA	KHEJURI	9	8	1	1	9	1
244	BALLIA	KOTWALI	3	8	1	1	18	1
245	BALLIA	MAHILA THANA	8	8	1	1	5	1
246	BALLIA	MANIAR	8	8	2	2	16	1
247	BALLIA	NAGRA	6	8				
248	BALLIA	NARHI	5	8	1	3	13	2
249	BALLIA	PAKARI	9	8	2	1	8	1
250	BALLIA	PHEPHNA	7	8	1	2	9	1
251	BALLIA	RASRA	3	8	1	2	10	1
252	BALLIA	REOTI	7	8	1	2	8	1
253	BALLIA	SAHATWAR	6	8	1	2	10	1
254	BALLIA	SIKANDERPUR	4	8	1	2	22	1
255	BALLIA	SUKHPURA	8	8	1	1	11	2
256	BALLIA	UBHAON	4	8	1	2	9	1
257	BALRAMPUR	GAISRI	14	3				
258	BALRAMPUR	GAURA CHAURAHA	8	12				
259	BALRAMPUR	HARRIYA	16	10				
260	BALRAMPUR	JARWA	15	2				
261	BALRAMPUR	KOTWALI DEHAT	4	11				
262	BALRAMPUR	KOTWALI NAGAR	2	20				
263	BALRAMPUR	LALIA	6	9				
264	BALRAMPUR	MAHARAJGANJ TARAI	8	9				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
265	BALRAMPUR	MAHILA THANA	2	4				
266	BALRAMPUR	PANCHPERWA	10	4				
267	BALRAMPUR	REHRA BAZAR	6	6				
268	BALRAMPUR	SADULLA NAGAR	8	5				
269	BALRAMPUR	TULSIPUR	4	6				
270	BALRAMPUR	UTRAULA	4	8				
271	BALRAMPUR	SRIDATTAGANJ		10*				
272	BALRAMPUR	GAINDAS BUZURG		10*				
273	BANDA	FATEHGANJ	5	19	2	1	12	2
274	BANDA	MATAUNDH	5	19	1	1	3	2
275	BANDA	ATARRA	5	15	1	1	6	2
276	BANDA	BABERU	5	20	1	1	2	1
277	BANDA	BADAUSA	5	18	2	1	5	3
278	BANDA	BISANDA	5	18	1	1		2
279	BANDA	CHILLA	5	21	2	1	9	2
280	BANDA	GIRWAN	5	16	1	4	6	2
281	BANDA	JASPURA	5	15	1	1	8	3
282	BANDA	KALINJAR	5	21	1	2	3	2
283	BANDA	KAMASIN	5	22	2	1	4	2
284	BANDA	KOTWALI DEHAT	5	18	1	2	2	1
285	BANDA	KOTWALI NAGAR	5	22	1	2		1
286	BANDA	MAHILA THANA	5	17	1	1	2	1
287	BANDA	MARKA	5	19	1	1	6	2
288	BANDA	NARAINI	5	20	1	1	5	2
289	BANDA	PAILANI	5	22	1	1	6	2
290	BANDA	TINDWARI	5	17	2	2	5	1
291	BARABANKI	ASANDRA	8	8	1	1	6	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
292	BARABANKI	BADDUPUR	11	8	1	1	5	1
293	BARABANKI	BADOSARAI	7	7	1	1	5	1
294	BARABANKI	DARIYABAD	10	8	1	1	6	1
295	BARABANKI	DEWA	6	8	1	1	6	1
296	BARABANKI	FATEHPUR	10	8	1	1	4	1
297	BARABANKI	GHUNGHTER	9	9	1	1	6	2
298	BARABANKI	HAIDER GARH	6	8	1	1	3	1
299	BARABANKI	JAIDPUR	10	8	2	1	7	1
300	BARABANKI	JHANGIRABAD	8	16	2	1	4	1
301	BARABANKI	КОТНІ	8	7	1	1	4	1
302	BARABANKI	KOTWALI	2	8	2	1	3	1
303	BARABANKI	KURSI	14	6	1	1	10	2
304	BARABANKI	LONIKATRA	15	8	1	1	6	1
305	BARABANKI	MAHILA THANA		6	2	1		
306	BARABANKI	MASAULI	6	7	1	1	3	1
307	BARABANKI	MOHAMMADPUR KHALA	10	11	1	1	2	1
308	BARABANKI	RAM SANEHIGHAT	6	6	2	1	12	1
309	BARABANKI	RAMNAGAR	6	8	1	1	5	1
310	BARABANKI	SAFDARGANJ	7	8	1	1	4	1
311	BARABANKI	SATRIKHA	4	7	1	1	4	1
312	BARABANKI	SUBEHA	10	6	1	1	5	1
313	BARABANKI	TIKAIT NAGAR	6	7	1	1	10	1
314	BAREILLY	ALIGANJ	10	15	1	1	3	2
315	BAREILLY	AONLA	8	3	1	2	8	2
316	BAREILLY	BAHERHI	10	18	2	2	8	3
317	BAREILLY	BARADARI	6	7	1	2	7	2
318	BAREILLY	BHAMORA	12	15	2	1	7	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
319	BAREILLY	BHOJIPURA	4	14	1	1	10	2
320	BAREILLY	BHUTA	8	9	1	1	8	1
321	BAREILLY	BITHRI CHAINPUR	5	10	1	1	4	1
322	BAREILLY	CANTT	5	16	1	3	10	2
323	BAREILLY	COLLECTOR BUKGANJ	2	6	1	2	7	2
324	BAREILLY	DEORANIAN	8	16	2	4	8	3
325	BAREILLY	FARIDPUR	8	15	1	1	6	2
326	BAREILLY	FATEHGANJ EAST	8	12	2	3	6	1
327	BAREILLY	FATEHGANJ WEST	6	13	1	2	9	2
328	BAREILLY	HAFIZGANJ	10	15	1	1	4	2
329	BAREILLY	IZAT NAGAR	5	9	1	3	4	2
330	BAREILLY	KOTWALI	3	20	2	2	7	3
331	BAREILLY	KYOLADIA	12	13	1	2	8	2
332	BAREILLY	MAHILA THANA	0	6	2	1	5	2
333	BAREILLY	MEERGANJ	8	16	2	3	13	2
334	BAREILLY	NAWABGANJ	9	24	1	3	10	2
335	BAREILLY	PREM NAGAR	4	16	2	2	8	2
336	BAREILLY	QILLA	5	16	1	2	3	2
337	BAREILLY	SHAHI	10	9	1	2	6	2
338	BAREILLY	SHEESHGARH	10	11	2	2	6	1
339	BAREILLY	SHERGARH	10	13	1	3	6	2
340	BAREILLY	SIRAULI	4	14	2	2	4	2
341	BAREILLY	SUBHASH NAGAR		6				
342	BAREILLY	VISHARAT GANJ	5	2	1	1	1	1
343	BASTI	CHHAWANI	9	18	1	1	6	1
344	BASTI	DUBAULIA	12	14	1	1	3	1
345	BASTI	GAUR	13	8	1	1	3	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
346	BASTI	HARRAIYA	6	23	1	1	3	1
347	BASTI	KALWARI	10	18	1	1	4	1
348	BASTI	KAPTANGANJ	12	24	2	1	10	2
349	BASTI	KOTWALI	4	23	2	1		1
350	BASTI	LAL GANJ	6	22	1	1	4	1
351	BASTI	MAHILA THANA	4	16	2	1		1
352	BASTI	MUNDERWA	12	17	1	1	5	1
353	BASTI	NAGAR	8	23	2	1		
354	BASTI	PAIKAULIA	10	18	1	1	1	1
355	BASTI	PARASRAMPUR	10	22	1	2	4	2
356	BASTI	PURANI BASTI	4	17	1	1	5	1
357	BASTI	RUDHAULI	4	30	1	1	8	2
358	BASTI	SONHA	12	20	1	1	2	1
359	BASTI	WALTER GANJ	4	22	1	1	5	1
360	BHADOHI	AURAI	8	11	1	1	7	1
361	BHADOHI	BHADOHI	8	11	1	2	15	2
362	BHADOHI	CHAURI	8	13	1	1	8	1
363	BHADOHI	DURGA GANJ	8	13	1	2	24	2
364	BHADOHI	GOPIGANJ	8	11	1	1	9	1
365	BHADOHI	GYANPUR	8	7	1	1	16	1
366	BHADOHI	KOIRAUNA	8	12	1	2	13	2
367	BHADOHI	MAHILA THANA		7	1	1	6	1
368	BHADOHI	SURIYAVAN	8	11	1	1	5	1
369	BHADOHI	UNJ	8	12	1	2	13	3
370	BIJNOR	AFZALGARH	8	10	1	1	4	1
371	BIJNOR	BARHAPUR	10	7	1	1	4	1
372	BIJNOR	CHANDPUR	6	7	2	1	6	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
373	BIJNOR	DHAMPUR	4	8	1	1	6	1
374	BIJNOR	HALDAUR	0	9	2	1	7	2
375	BIJNOR	HEEMPUR DEEPA	10	13	1	1	3	1
376	BIJNOR	KIRATPUR	8	14	1	1	9	1
377	BIJNOR	KOTWALI CITY	7	6	1	1	1	1
378	BIJNOR	KOTWALI DEHAT	14	11	1	1	7	1
379	BIJNOR	MAHILA THANA	4	6	1	1	4	1
380	BIJNOR	MANDAWALI	14	9	2	1	4	1
381	BIJNOR	MANDAWAR	8	13	1	1	6	2
382	BIJNOR	NAGAL	10	12	1	1	2	1
383	BIJNOR	NAGINA	7	17	1	1	1	1
384	BIJNOR	NAGINA DEHAT	4	8	1	1	5	1
385	BIJNOR	NAJIBABAD	7	8	1	1	6	1
386	BIJNOR	NEHTAUR	0	7	2	1	8	2
387	BIJNOR	NOORPUR	6	6	1	1	3	1
388	BIJNOR	REHAR	10	11	1	1	7	1
389	BIJNOR	SHERKOT	8	8	1	1	7	1
390	BIJNOR	SHIWALA KALAN	1	8	1	1	2	1
391	BIJNOR	SYOHARA	8	8	1	1	4	1
392	BULANDSHAHAR	CHOLA		20				
393	BULANDSHAHAR	AGOTA	6	13	1	2	14	2
394	BULANDSHAHAR	AHAR	10	16	1	3	12	3
395	BULANDSHAHAR	AHMADGARH	14	10	1	1	10	1
396	BULANDSHAHAR	ANOOPSHAHR	4	12	2	2	12	1
397	BULANDSHAHAR	ARNIYA	10	13	2	3	12	2
398	BULANDSHAHAR	AURANGABAD	5	12	1	1	8	1
399	BULANDSHAHAR	BHAWAN BAHADUR NAGAR	12	16	1	3	14	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
400	BULANDSHAHAR	CHATARI	12	9	1	2	19	2
401	BULANDSHAHAR	DIBAI	6	10	2	3	13	2
402	BULANDSHAHAR	GULAWTI	4	11	1	2	13	1
403	BULANDSHAHAR	JAHANGIRABAD	6	11	1	2	10	2
404	BULANDSHAHAR	JAHANGIRPUR	8	14	1	2	11	2
405	BULANDSHAHAR	KAKOD	8	11	2	2	24	2
406	BULANDSHAHAR	KHANPUR	8	13	2	1	8	1
407	BULANDSHAHAR	KHURJA DEHAT	8	12	1	8	33	4
408	BULANDSHAHAR	KHURJA NAGAR	5	10	1	1	15	1
409	BULANDSHAHAR	KOTWALI CITY	2	13	1	2	13	2
410	BULANDSHAHAR	KOTWALI DEHAT	4	12	1	4	14	1
411	BULANDSHAHAR	MAHILA THANA	6	14	1	1	10	1
412	BULANDSHAHAR	NARORA	0	13	1	2	14	2
413	BULANDSHAHAR	NARSENA	10	11	2	2	14	1
414	BULANDSHAHAR	PAHASU	5	9	1	3	9	2
415	BULANDSHAHAR	RAMGHAT	11	12	1	2	8	2
416	BULANDSHAHAR	SALEMPUR		12	1	2	18	1
417	BULANDSHAHAR	SHIKANDRABAD	6	14	1	2	10	1
418	BULANDSHAHAR	SHIKARPUR	14	9	1	2	9	2
419	BULANDSHAHAR	SYANA	5	10	1	3	19	2
420	CHANDAULI	ALI NAGAR	2	19	1	1		1
421	CHANDAULI	BABURI	10	17	1	1		1
422	CHANDAULI	BALUA	12	14	1	1		1
423	CHANDAULI	CHAKARGHATTA	14	21	1	1		1
424	CHANDAULI	CHAKIYA	6	19	1	1		1
425	CHANDAULI	CHANDAULI	2	17	1	1		1
426	CHANDAULI	DHANAPUR	14	23	1	1		1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
427	CHANDAULI	DHINA	8	18	1	1		2
428	CHANDAULI	ELIYA	8	20	1	1		1
429	CHANDAULI	KANDAWA	8	21	1	1		1
430	CHANDAULI	MAHILA THANA	2	9	1	1		1
431	CHANDAULI	MUGHAL SARAI	2	15	1	1		1
432	CHANDAULI	NAUGARH	8	20	1	1		1
433	CHANDAULI	SAKALDEEHA	12	16	1	1		1
434	CHANDAULI	SHAHABGANJ	8	17	1	1		1
435	CHANDAULI	SYED RAZA	12	21	1	1		1
436	CHITRAKOOT	BAHILPURWA	7	13	1	1	6	2
437	CHITRAKOOT	BARGARH		14	1	1		1
438	CHITRAKOOT	BHARATKOOP		6	1	1		1
439	CHITRAKOOT	MARKUNDI		11	1	1	3	1
440	CHITRAKOOT	KARVI KOTWALI NAGAR		16	2	1	6	2
441	CHITRAKOOT	MAHILA THANA		4	1	1		
442	CHITRAKOOT	MANIKPUR	8	3	1	1	2	1
443	CHITRAKOOT	MAU		15	2	1	4	1
444	CHITRAKOOT	PAHARI		16	1	1	6	2
445	CHITRAKOOT	RAIPURA		15	1	1	8	2
446	CHITRAKOOT	RAJAPUR		15	1	1	1	1
447	CHITRAKOOT	SARDHUA		10*				
448	DEORIA	BAGHAUCHGHAT	10	13	1	1	2	1
449	DEORIA	BANKATA	12	15	1	1	4	1
450	DEORIA	BARHAJ	8	13	1	1	2	1
451	DEORIA	BHALUANI	12	12	1	1		
452	DEORIA	BHATNI	12	11	1	1		
453	DEORIA	BHATPARRANI	8	13	1	1	3	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
454	DEORIA	EKAUNA	12	8	1	1	2	1
455	DEORIA	GAURIBAZAR	12	17	2	1	4	1
456	DEORIA	KHAMPAR	12	14	1	1	4	1
457	DEORIA	KHUKHUNDU	5	9	1	1	5	1
458	DEORIA	KOTWALI	4	16	1	1		1
459	DEORIA	LAR	12	10	1	1	6	1
460	DEORIA	MADANPUR	12	13	1	1	2	1
461	DEORIA	MAHILA THANA	2	9	1	1		1
462	DEORIA	MAIL	4	13	1	1		1
463	DEORIA	RAMPUR KARKHANA	14	10	1	1	1	1
464	DEORIA	RUDRAPUR	12	14	1	1	6	1
465	DEORIA	SALEMPUR	12	13	1	1	4	1
466	DEORIA	TARKULWA	5	10	1	1		1
467	DEORIA	MAHUADIH	12	12	1	1		1
468	DEORIA	BARIYARPUR	12	13	1	1		1
469	ETAH	ALIGANJ	12	15	2	1	10	1
470	ETAH	AWAGARH	12	14	2	1	9	4
471	ETAH	BAGWALA	10	13	2	3	10	4
472	ETAH	JAITHRA	17	25	2	2	7	7
473	ETAH	JALESAR	6	15	2	1	8	5
474	ETAH	JASRATHPUR	12	15	2	1	10	5
475	ETAH	KOTWALI DEHAT	18	5	2	3	7	1
476	ETAH	KOTWALI NAGAR		27	1	4	12	1
477	ETAH	MAHILA THANA	3	7	1	0	6	1
478	ETAH	MALAWAN	12	8	1	1	9	7
479	ETAH	MARHARA	12	13	1	3	10	2
480	ETAH	MIRHACHI	17	23	2	2	3	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
481	ETAH	NAYAGAON	12	6	2	2	8	4
482	ETAH	NIDHOLI KALAN	17	21	2	2	7	8
483	ETAH	PILUA	17	23	1	1	10	1
484	ETAH	RAJA KA RAMPUR	12	11	1	2	9	4
485	ETAH	RIJOR	12	20	1	1	7	4
486	ETAH	SAKEET	10	11	1	1	8	1
487	ETAH	SAKRAULI	12	12	1	1	6	3
488	ETAWAH	BAKEWAR	6	10	2	1	6	1
489	ETAWAH	BALRAI	6	8	1	2	9	1
490	ETAWAH	BARHPURA	15	8	1	1	7	1
491	ETAWAH	BASREHAR	12	9	1	1	6	2
492	ETAWAH	BHAREH	10	8	2	2	8	1
493	ETAWAH	BHARTHANA	8	12	1	1	8	1
494	ETAWAH	BITHOLI	15	8	1	1	4	1
495	ETAWAH	CHAKAR NAGAR	6	8	1	2	8	1
496	ETAWAH	CHAUBIA	12	12	1	1	6	1
497	ETAWAH	CIVIL LINES	4	10	2	2	7	1
498	ETAWAH	FRIENDS COLONY	12	9	1	1	8	2
499	ETAWAH	IKDIL	5	10	1	1	9	1
500	ETAWAH	JASWANT NAGAR	10	9	1	2	8	2
501	ETAWAH	KOTWALI	4	9	1	2	13	2
502	ETAWAH	LAVEDI	14	9	2	3	14	2
503	ETAWAH	MAHILA THANA (SAFAI)	5	6	1	2	5	1
504	ETAWAH	PACHHON GAON	8	10	2	2	8	1
505	ETAWAH	SAHSON	6	8	1	1	4	1
506	ETAWAH	SEFAI	6	9	1	1	4	1
507	ETAWAH	USHARAHAR	8	8	1	2	6	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
508	ETAWAH	VAIDPURA	12	9	1	1	11	1
509	FATEHGARH	AMRITPUR	12	4	1	1	5	1
510	FATEHGARH	FARRUKHABAD KOTWALI	6	4	1	2	2	1
511	FATEHGARH	FATEHGARH KOTWALI	6	5	1	1	3	1
512	FATEHGARH	JAHANGANJ	12	5	2	2	2	1
513	FATEHGARH	KAMALGANJ	10	4	1	1	2	1
514	FATEHGARH	KAMPIL	14	4	1	1	3	1
515	FATEHGARH	KAYAMGANJ	10	4	1	1	2	1
516	FATEHGARH	MAHILA THANA	6	2	1	1	2	1
517	FATEHGARH	MAUDARWAZA	6	3	1	1	3	1
518	FATEHGARH	MERAPUR	14	4	1	1	2	1
519	FATEHGARH	MOHMADABAD	10	5	1	1	3	1
520	FATEHGARH	NAWABGANJ	12	5	1	1	3	1
521	FATEHGARH	RAJEPUR	12	5	2	1	10	1
522	FATEHGARH	SAMSABAD	14	3	1	1	2	1
523	FATEHGARH	N M T KADRI GATE		6				
524	FATEHPUR	ASOTHAR	4	12	1	1	14	1
525	FATEHPUR	AUNG	4	12	1	1	8	1
526	FATEHPUR	BAKEWAR	4	12	2	1	10	1
527	FATEHPUR	BINDKI	4	14	1	2	10	2
528	FATEHPUR	CHANDPUR	4	13	1	1	11	1
529	FATEHPUR	DHATA	4	9	1	3	11	3
530	FATEHPUR	GAZIPUR	4	12	1	2	12	1
531	FATEHPUR	HATHGAWAN	4	12	1	1	7	1
532	FATEHPUR	HUSSAINGANJ	4	14	2	2	15	1
533	FATEHPUR	JAHANABAD	4	13	1	1	11	2
534	FATEHPUR	KALYANPUR	4	14	1	3	14	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
535	FATEHPUR	KHAGA	4	13	1	1	13	1
536	FATEHPUR	KHAKHRERU	4	13	1	3	13	3
537	FATEHPUR	KISHANPUR	4	15	2	2	8	1
538	FATEHPUR	KOTWALI	3	15	1	2	14	1
539	FATEHPUR	LALAULI	4	12	1	1	8	1
540	FATEHPUR	MAHILA THANA	3	12	1	2	8	1
541	FATEHPUR	MALWAN	3	13	2	2	12	1
542	FATEHPUR	SULTANPUR GHOSH	4	14	1	3	22	1
543	FATEHPUR	THARIAON	4	11	1	1	12	1
544	FATEHPUR	ZAFARGANJ	4	11	1	1	13	1
545	FIROZABAD	RAJAWALI		16				
546	FIROZABAD	BASAI MOHAMMAD PUR	6	22	2	1	5	1
547	FIROZABAD	EKA	13	21	2	3	4	2
548	FIROZABAD	FARIHA	10	22	2	2	8	2
549	FIROZABAD	FIROZABAD NORTH	2	21	1	1	2	3
550	FIROZABAD	FIROZABAD SOUTH	6	21	1	3	12	3
551	FIROZABAD	JASRANA	13	18	2	2	11	3
552	FIROZABAD	KHAIRGARH	15	20	2	1	2	1
553	FIROZABAD	LINEPAR	2	16	2	1	3	1
554	FIROZABAD	MAHILA THANA	2	17	1	1		1
555	FIROZABAD	MAKKHANPUR	8	18	2	1		1
556	FIROZABAD	MATSENA	8	20	2	1	3	2
557	FIROZABAD	NAGLA KHANGAR	6	16	1	2	5	2
558	FIROZABAD	NAGLA SINGHI	14	20	1	2	8	2
559	FIROZABAD	NARKHI	10	20	1	2	8	1
560	FIROZABAD	NASEERPUR	10	20	2	4	8	3
561	FIROZABAD	PACHOKHARA	6	20	1	2	5	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
562	FIROZABAD	RAMGARH	8	20	1	2	4	1
563	FIROZABAD	RASULPUR	6	18	1	1	5	2
564	FIROZABAD	SHIKOHABAD	2	16	2	1	3	1
565	FIROZABAD	SIRSA GANJ	5	17	1	4	1	1
566	FIROZABAD	TUNDLA	6	21	1	2	5	2
567	FIROZABAD	ARAWAN		20				
568	GAUTAM BUDH NAGAR	BADALPUR	0	21	2	1		2
569	GAUTAM BUDH NAGAR	BISRAKH	5	2	1	2		1
570	GAUTAM BUDH NAGAR	DADRI	5	2	1	1	6	3
571	GAUTAM BUDH NAGAR	DANKAUR	9	2	2	1		2
572	GAUTAM BUDH NAGAR	ECOTECH -1	2	2	1	1		
573	GAUTAM BUDH NAGAR	ECOTECH-3	2	2	1	1	3	2
574	GAUTAM BUDH NAGAR	EXPRESSWAY	0	19	1	1	2	2
575	GAUTAM BUDH NAGAR	GREATER NOIDA/KASNA	7	2	2	1	4	2
576	GAUTAM BUDH NAGAR	JARCHA	10	2	1	1	17	3
577	GAUTAM BUDH NAGAR	JEWAR	8	2	1	1	17	3
578	GAUTAM BUDH NAGAR	KASNA/BETA 2	1	2	1	1	1	2
579	GAUTAM BUDH NAGAR	KNOWLEDGE PARK	2	2	1	1		
580	GAUTAM BUDH NAGAR	MAHILA THANA		17				
581	GAUTAM BUDH NAGAR	NOIDA SECTOR-20		2	1	1	1	1
582	GAUTAM BUDH NAGAR	NOIDA SECTOR-24		2	1	1	1	2
583	GAUTAM BUDH NAGAR	NOIDA SECTOR-39		2	1	1		
584	GAUTAM BUDH NAGAR	NOIDA SECTOR-49		2	1	1		
585	GAUTAM BUDH NAGAR	NOIDA SECTOR-58		2	1	1	1	1
586	GAUTAM BUDH NAGAR	PHASE-2	6	2	1	1	5	1
587	GAUTAM BUDH NAGAR	PHASE-3	5	2	1	2		
588	GAUTAM BUDH NAGAR	RABUPURA	9	9	2	2	6	3

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
589	GAUTAM BUDH NAGAR	SURAJPUR	2	2	2	2		2
590	GAUTAM BUDH NAGAR	Phase-1		10*				
591	GAUTAM BUDH NAGAR	NOIDA SECTOR-142		10*				
592	GHAZIABAD	BHOJPUR	14	10	1	3	15	1
593	GHAZIABAD	GHAZIABAD KOTWALI	2	10	1	3	11	2
594	GHAZIABAD	INDRAPURAM	1	10	1	1	8	1
595	GHAZIABAD	KAUSHAMBI	2	10	1	2	8	1
596	GHAZIABAD	KAVI NAGAR	1	10	1	2	16	3
597	GHAZIABAD	KHODA	1	10	1	2	11	1
598	GHAZIABAD	LINK ROAD	2	24	1	2	14	1
599	GHAZIABAD	LONI	7	12	1	1	11	1
600	GHAZIABAD	LONI BORDER	4	10	1	2	10	1
601	GHAZIABAD	MAHILA THANA	1	11	1	1	12	1
602	GHAZIABAD	MASURI	4	16	1	2	9	1
603	GHAZIABAD	MODI NAGAR	4	15	2	2	8	2
604	GHAZIABAD	MURAD NAGAR	4	28	1	2	6	1
605	GHAZIABAD	NIWARI	6	11	1	1	6	1
606	GHAZIABAD	SAHIBABAD	4	22	1	1	9	1
607	GHAZIABAD	SIHANI GATE	1	16	1	2	7	2
608	GHAZIABAD	TEELAMOD	8	14	1	2	8	1
609	GHAZIABAD	TRONICA CITY	4	17	1	1	7	1
610	GHAZIABAD	VIJAY NAGAR	4	15	1	2	18	1
611	GHAZIABAD	NANDGRAM		6				
612	GHAZIABAD	MADHUBAN BAPUDHAM	4	15	2	2	8	1
613	GHAZIPUR	BADESAR	4	27	1	3	7	1
614	GHAZIPUR	BAHARIYABAD	24	50	1	4	11	3
615	GHAZIPUR	BHANWARKOL	4	50	1	3	7	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
616	GHAZIPUR	BHUDKUDA	8	61	2	2	4	2
617	GHAZIPUR	BIRNO	6	50	1	1	7	1
618	GHAZIPUR	DILDARNAGAR	6	24	1	2	5	1
619	GHAZIPUR	DULLAHPUR	10	46	2	2	8	3
620	GHAZIPUR	GAHMAR	6	18	1	2	2	2
621	GHAZIPUR	JAMANIA	4	30	1	2	6	4
622	GHAZIPUR	JANGIPUR	6	56	2	1	6	2
623	GHAZIPUR	KARANDA	8	56	1	1	6	2
624	GHAZIPUR	KARIMUDDINPUR	12	42	1	1	8	3
625	GHAZIPUR	KASIMABAD	6	58	1	1	22	2
626	GHAZIPUR	KHANPUR	12	42	2	1	2	1
627	GHAZIPUR	KOTWALI	8	62	1	2	5	2
628	GHAZIPUR	MAHILA THANA	8	52	3	2		2
629	GHAZIPUR	MARDAH		29	1	1	4	1
630	GHAZIPUR	MOHAMMADABAD	6	64	1	1	17	3
631	GHAZIPUR	NAGASARHALT	10	12	1			
632	GHAZIPUR	NANDGANJ	12	60	1	2	10	2
633	GHAZIPUR	NONHARA	8	54	1	1	6	2
634	GHAZIPUR	REWTIPUR	8	9	1	1	3	2
635	GHAZIPUR	SADAT	6	50	2	4	8	3
636	GHAZIPUR	SAIDPUR	6	62	2	4	10	3
637	GHAZIPUR	SHADIABAD	12	50	1			2
638	GHAZIPUR	SUHWAL	8	22	1	1	5	1
639	GONDA	СННАРІА	8	19	1	1	14	3
640	GONDA	COLONELGANJ	8	13	1	1		
641	GONDA	DHANEPUR	10	17	1	1	6	2
642	GONDA	ІТІАТНОК	8	14	1	1	8	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
643	GONDA	KATRA BAZAR	8	19	1	1	3	1
644	GONDA	KAURIYA	16	21	1	1	3	1
645	GONDA	KHARAGUPUR	8	17	2	1	4	2
646	GONDA	KHODARE	10	24	1	1	6	2
647	GONDA	KOTWALI DEHAT	2	13	1	1	10	2
648	GONDA	KOTWALI NAGAR	2	12	1	1	4	2
649	GONDA	MAHILA THANA	1	12	1	1	3	2
650	GONDA	MANKAPUR	4	23	1	1	8	2
651	GONDA	MOTI GANJ	8	21	1	1		
652	GONDA	NAWABGANJ	14	21	2	1	6	1
653	GONDA	PARASPUR	6	17	1	4	14	2
654	GONDA	TARABGANJ	8	24	2	1		
655	GONDA	UMRI BEGAMGANJ	16	24	1	1	2	1
656	GONDA	WAZIRGANJ		25	1	1	5	2
657	GORAKHPUR	AIIMS		10*				
658	GORAKHPUR	BASGOAN	10	10	2			
659	GORAKHPUR	BARAHALGANJ	6	10	1			
660	GORAKHPUR	BELGHAT	8	10	1			
661	GORAKHPUR	BELIPAR	12	10	1	1	8	1
662	GORAKHPUR	CAMPIERGANJ	4	10	1			
663	GORAKHPUR	CANTT	1	10				
664	GORAKHPUR	CHAURI CHAURA	8	10	1			
665	GORAKHPUR	CHILUWATAL	8	12				
666	GORAKHPUR	GAGAHA	4	2	1	1	10	8
667	GORAKHPUR	GEEDA	10	10	1			
668	GORAKHPUR	GOLA	8	12	1			
669	GORAKHPUR	GORAKHNATH	1	20	1	1	10	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
670	GORAKHPUR	GULRIHA	8	15	2			
671	GORAKHPUR	HARPUR BUDHAT	18	16				
672	GORAKHPUR	JHANGHA	8	10				
673	GORAKHPUR	KHAJNI	12	17				
674	GORAKHPUR	KHORABAR	5	15	1			
675	GORAKHPUR	KOTWALI	10	17	1			
676	GORAKHPUR	MAHILA THANA	1	17	1	1	8	1
677	GORAKHPUR	PEEPIGANJ	6	13	1			
678	GORAKHPUR	PIPRAICH	8	15				
679	GORAKHPUR	RAJGHAT	10	17	2			
680	GORAKHPUR	RAMGARHTAAL	2	13	1	1	7	2
681	GORAKHPUR	SAHJANWA	7	20	1			
682	GORAKHPUR	SHAHPUR	6	10	1			
683	GORAKHPUR	SIKARIGANJ	12	6		1	9	1
684	GORAKHPUR	TIWARIPUR	10	17	2			
685	GORAKHPUR	URUWA BAZAR	8	11	1			
686	HAMIRPUR	BINWAR	15	16	1	1	6	2
687	HAMIRPUR	CHIKASI	10	14	1	1	3	2
688	HAMIRPUR	JALALPUR	12	18	2	1	4	2
689	HAMIRPUR	JARIA	12	22	2	1	8	2
690	HAMIRPUR	KOTWALI NAGAR	10	23	1	1	2	1
691	HAMIRPUR	KURARA	14	15	1	1	6	1
692	HAMIRPUR	LALPURA	11	26	1	1	5	1
693	HAMIRPUR	MAHILA THANA	10	20	1	2	3	1
694	HAMIRPUR	MAJHGAWAN	15	19	1	1	4	2
695	HAMIRPUR	MAUDAHA	7	14	2	2	5	2
696	HAMIRPUR	MUSKARA	12	14	1	2	3	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
697	HAMIRPUR	RATH	12	27	2	1	6	3
698	HAMIRPUR	SISOLAR	9	16	1	1		1
699	HAMIRPUR	SUMERPUR	12	15	1	1	4	1
700	HAPUR	BABUGARH	6	27	2	3	12	3
701	HAPUR	BAHADURGARH	14	26	1	1	9	2
702	HAPUR	DHAULANA	8	21	1	1	7	1
703	HAPUR	GARHMUKTESWAR	6	36	2	2	11	3
704	HAPUR	HAFIZPUR	6	29	1	3	10	3
705	HAPUR	HAPUR DEHAT	4	20	3	3	14	4
706	HAPUR	HAPURNAGAR	4	29	1	2	7	2
707	HAPUR	MAHILA THANA	3	10	1	1	4	2
708	HAPUR	PILKHUWA	6	21	1	2	10	3
709	HAPUR	SIMBHAWALI	4	18	2	2	15	3
710	HARDOI	ARWAL		20	1	1	8	2
711	HARDOI	ATRAULI		16				7
712	HARDOI	BAGHAULI	10	20	1	2	9	
713	HARDOI	BEHTA GOKUL	10	18	2	1	7	10
714	HARDOI	BENIGANJ	8	20	1	1	10	2
715	HARDOI	BILGRAM	6	18	1	1	6	1
716	HARDOI	HARIYAWAN	1	15	1	1	5	5
717	HARDOI	HARPALPUR	7	20	1	1	7	4
718	HARDOI	KACHHAUNA	12	11	3	1	10	6
719	HARDOI	KOTWALI CITY	0	22	2	1	7	8
720	HARDOI	KOTWALI DEHAT	4	26	2	1	8	6
721	HARDOI	LONAR	10	13	2	1	8	1
722	HARDOI	MADHOGANJ	10	25	2	1	7	5
723	HARDOI	MAHILA THANA		15				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
724	HARDOI	MALLAWAN	5	10	2	1	4	5
725	HARDOI	MANJHILA	10	12	1	2	6	5
726	HARDOI	PACHDEORA	12	17	1	1	11	7
727	HARDOI	PALI		18				
728	HARDOI	PIHANI	12	12	2	2	5	6
729	HARDOI	QASIMPUR	6	20	2	3	10	4
730	HARDOI	SANDI		13				
731	HARDOI	SANDILA	5	10	2	2	9	8
732	HARDOI	SHAHBAD		11				
733	HARDOI	SURSA	10	9	1	1	9	1
734	HARDOI	TANDIAWAN	12	20	1	1	7	6
735	HARDOI	SAWAYAJPUR		10*				
736	HATHRAS	CHANDPA	4	13	2	1	8	5
737	HATHRAS	HASAAYAN	4	15	2	1	5	6
738	HATHRAS	HATHRAS GATE	4	9	2	1	9	4
739	HATHRAS	HATHRAS JUNCTION	4	16	1	1	5	6
740	HATHRAS	HATHRAS KOTWALI	4	14	3	1	7	8
741	HATHRAS	MAHILA THANA	4	8	1	2	10	1
742	HATHRAS	MURSAAN	4	11	1	1	8	6
743	HATHRAS	SADABAD KOTWALI	4	10	1	1	11	3
744	HATHRAS	SAHPAU	4	9	1	1	6	11
745	HATHRAS	SASNI KOTWALI	4	15	3	1	8	6
746	HATHRAS	SIKANDRARAU	4	15	2	0	8	7
747	JALAUN	ΑΑΤΑ	11	10	1	3	17	2
748	JALAUN	CHURKHI	12	15	1	2	22	1
749	JALAUN	DAKOR		13				
750	JALAUN	ET	6	14	1	3	20	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
751	JALAUN	GOHAN		14				
752	JALAUN	KADAURA		16				
753	JALAUN	KAILIYA	8	13	1	2	13	1
754	JALAUN	KOTRA		13				
755	JALAUN	KOTWALI JALAUN		16				
756	JALAUN	KOTWALI KALPI	8	17	1	2	24	3
757	JALAUN	KOTWALI KONCH	8	13	1	3	15	2
758	JALAUN	KOTWALI ORAI	2	21	2	5	20	2
759	JALAUN	KUTHAUND		18				
760	JALAUN	MADHAUGARH	8	13	1			
761	JALAUN	MAHILA THANA	6	11	2	2	7	1
762	JALAUN	NADIGAON	10	11	1	2	11	1
763	JALAUN	RAMPURA		15				
764	JALAUN	RENDHAR		12				
765	JALAUN	SIRSA KALAR		15				
766	JAUNPUR	BADLAPUR	8	22	1	1		
767	JAUNPUR	BAKSA	12	19	1	1		
768	JAUNPUR	BARSATHI	10	18	1	1		
769	JAUNPUR	CHANDAWAK	10	28	1	1		
770	JAUNPUR	GAURA BADSHAHPUR	16	26	2	1	3	
771	JAUNPUR	JALALPUR	8	24	3	2		
772	JAUNPUR	KERAKAT	5	30	1	1		
773	JAUNPUR	KHETA SARAI	10	23	1	1		
774	JAUNPUR	KHUTHAN	10	21	2	1	2	
775	JAUNPUR	KOTWALI	6	20	2	1		
776	JAUNPUR	LINE BAZAR	5	19	2	1	4	
777	JAUNPUR	MACHHALI SHAHAR	6	18	1	1	3	

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
778	JAUNPUR	MAHARAJ GANJ	12	18	1	1	3	
779	JAUNPUR	MAHILA THANA	6	11	2	1		
780	JAUNPUR	MARIYAHUN	6	22	1	1	4	
781	JAUNPUR	MEERGANJ	12	22	1	1	6	
782	JAUNPUR	MUGRA BADSHAHPUR	8	14	1	1		
783	JAUNPUR	NEWADHIYA	12	19	2	1	4	
784	JAUNPUR	PAWARA	6	19	3	1	2	
785	JAUNPUR	RAMPUR	10	20	1	1		
786	JAUNPUR	SARAI KHWAJA	6	25	1	1	4	
787	JAUNPUR	SARPATAHA	12	19	1	1	10	
788	JAUNPUR	SHAHGANJ	8	15	1	1	3	
789	JAUNPUR	SIGRAMAU	12	32	1	1		
790	JAUNPUR	SIKRARA	8	14	1	1	3	
791	JAUNPUR	SUJANGANJ	9	22	1	1		
792	JAUNPUR	SURERI	8	22	1	1	3	
793	JAUNPUR	ZAFRABAD	8	24	2	1	2	
794	JHANSI	BABINA	6	26				
795	JHANSI	BADAGAON	8	21				
796	JHANSI	BARUASAGAR		17				
797	JHANSI	CHIRGAON	5	27				
798	JHANSI	ERACH	10	25				
799	JHANSI	GARAUTHA	8	22				
800	JHANSI	GURSARAI	7	21				
801	JHANSI	KAKARWAI	12	21				
802	JHANSI	KATERA	8	17				
803	JHANSI	KOTWALI	3	26				
804	JHANSI	LAHCHURA	6	21				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
805	JHANSI	MAHILA THANA	3	18				
806	JHANSI	MAURANIPUR	8	23				
807	JHANSI	МОТН	6	26				
808	JHANSI	NAWABAD	3	23				
809	JHANSI	POONCH	8	25				
810	JHANSI	PREM NAGAR	3	25				
811	JHANSI	RAKSA	10	29				
812	JHANSI	SADAR BAZAR	3	20				
813	JHANSI	SAKRAR	8	21				
814	JHANSI	SAMTHAR	4	28				
815	JHANSI	SHAHJHANPUR	8	21				
816	JHANSI	SIPRI BAZAR	4	26				
817	JHANSI	TEHRAULI	8	22				
818	JHANSI	TODI FATEHPUR	10	23				
819	JHANSI	ULDAN	8	21				
820	KANNAUJ	INDERGARH		2				
821	KANNAUJ	KOTWALI CHHIBRAMAU	6	2				
822	KANNAUJ	KOTWALI GURSAHAIGANJ		2				
823	KANNAUJ	KOTWALI KANNAUJ	5	2				
824	KANNAUJ	KOTWALI TIRWA		2				
825	KANNAUJ	MAHILA THANA	4	14	3	1	7	8
826	KANNAUJ	SAURIKH	8	2				
827	KANNAUJ	TALGRAM		2				
828	KANNAUJ	ТНАТНІА		2				
829	KANNAUJ	VISHUNGARH	10	2				
830	KANPUR CITY	SAADH	10	6	1	1	5	1
831	KANPUR CITY	ANWARGANJ	4	10	1	1	7	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
832	KANPUR CITY	ARMAPUR	4	14	1	1	6	1
833	KANPUR CITY	BABUPURWA	8	20	1	1	16	1
834	KANPUR CITY	BADSHAHI NAKA	8	2	1	1	11	1
835	KANPUR CITY	BAJARIA	8	21	1	1	9	1
836	KANPUR CITY	BARRA	4	44	2	6	24	1
837	KANPUR CITY	BEKAN GANJ	7	9	1	1	6	1
838	KANPUR CITY	BIDHNOO	4	30	2	1	10	1
839	KANPUR CITY	BILHAUR	10	16	1	2	11	1
840	KANPUR CITY	BITHOOR	8	21	2	3	15	2
841	KANPUR CITY	CANTT	8	15	2	1	6	1
842	KANPUR CITY	CHAKERI	8	18	1	1	9	1
843	KANPUR CITY	CHAMAN GANJ	8	15	2	2	8	1
844	KANPUR CITY	CHAUBEPUR	4	25	1	2	16	1
845	KANPUR CITY	COLLECTORGANJ	8	17	1	1	10	1
846	KANPUR CITY	COLONOL GANJ	8	22	1	3	14	1
847	KANPUR CITY	FAZALGANJ	8	20	2	1	9	1
848	KANPUR CITY	FEELKHANA	8	16	1	1	10	1
849	KANPUR CITY	GHATAMPUR	8	14	1	1	16	1
850	KANPUR CITY	GOVIND NAGAR	8	25	1	3	17	1
851	KANPUR CITY	GWALTOLI	8	24	1	1	13	1
852	KANPUR CITY	HARBANS MOHAL	8	14	1	1	8	1
853	KANPUR CITY	JUHI	8	14	1	1	9	1
854	KANPUR CITY	KAKADEV	4	14	1	1	7	1
855	KANPUR CITY	KAKWAN	8	18	1	3	16	1
856	KANPUR CITY	KALYANPUR	8	22	1	2	16	1
857	KANPUR CITY	KIDWAI NAGAR	8	16	1	1	13	1
858	KANPUR CITY	КОНNА	8	13	1	1	6	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
859	KANPUR CITY	KOTWALI	8	23	1	2	23	2
860	KANPUR CITY	MAHARAJPUR	16	23	2	1	18	2
861	KANPUR CITY	MAHILA THANA	4	14	1	1	9	1
862	KANPUR CITY	MOOL GANJ	4	11	1	1	6	1
863	KANPUR CITY	NARWAL	8	14	1	3	23	1
864	KANPUR CITY	NAUBASTA	8	25	2	1	10	1
865	KANPUR CITY	NAWABGANJ	8	15	1	1	13	1
866	KANPUR CITY	NAZIRABAD	4	19	1	2	11	1
867	KANPUR CITY	PANKI	8	15	1	3	13	1
868	KANPUR CITY	RAILBAZAR	8	13	1	1	8	1
869	KANPUR CITY	RAIPURWA	8	18	1	1	18	1
870	KANPUR CITY	SACHENDI	12	22	1	3	18	1
871	KANPUR CITY	SAJETI	12	25	1	2	32	3
872	KANPUR CITY	SHIVRAJPUR	16	19	1	1	8	1
873	KANPUR CITY	SISAMAU	8	11	1	2	16	1
874	KANPUR CITY	SWAROP NAGAR	7	14	1	2	12	2
875	KANPUR DEHAT	JHEEJHAK		10**				
876	KANPUR DEHAT	AKBARPUR		10**				
877	KANPUR DEHAT	AMRAHAT (GOHANI)		10**				
878	KANPUR DEHAT	BARAUR		10**				
879	KANPUR DEHAT	BHOGNIPUR		10**				
880	KANPUR DEHAT	DERAPUR		10**				
881	KANPUR DEHAT	DEVRAHAT		10**				
882	KANPUR DEHAT	GAJNER		10**				
883	KANPUR DEHAT	MAHILA THANA	6	2	1	1	4	1
884	KANPUR DEHAT	MANGALPUR		10**				
885	KANPUR DEHAT	MOOSA NAGAR		10**				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
886	KANPUR DEHAT	RAJPUR		10**				
887	KANPUR DEHAT	RASULABAD		10**				
888	KANPUR DEHAT	RURA		10**				
889	KANPUR DEHAT	SATTI		10**				
890	KANPUR DEHAT	SHIVLI		10**				
891	KANPUR DEHAT	SIKANDARA		10**				
892	KASGANJ	AMANPUR	12	3				
893	KASGANJ	DHOLNA	0	5				
894	KASGANJ	GANJDUDWARA	16	3				
895	KASGANJ	KASGANJ	0	2				
896	KASGANJ	MAHILA THANA		2				
897	KASGANJ	PATIALI	16	3				
898	KASGANJ	SAHAWAR	10	3				
899	KASGANJ	SIDHPURA	14	3				
900	KASGANJ	SIKANDARPUR VAISH	10	3				
901	KASGANJ	SORON	10	3				
902	KASGANJ	SUNNGARHI	8	3				
903	KAUSHAMBI	CHARWA	10	13	1	2	14	1
904	KAUSHAMBI	KADADHAM	10	10	1	2	9	1
905	KAUSHAMBI	KARARI	10	15	1	2	11	1
906	KAUSHAMBI	KAUSHAMBI	10	11	1	3	14	2
907	KAUSHAMBI	KOKHRAJ	10	16	1	2	16	1
908	KAUSHAMBI	MAHEWAGHAT	10	13	1	2	15	1
909	KAUSHAMBI	MAHILA THANA	8	12	1	3	8	1
910	KAUSHAMBI	MANJHANPUR	8	14	1	3	11	2
911	KAUSHAMBI	MOHABBATPUR PAINSA	10	13	1	2	16	1
912	KAUSHAMBI	PASCHHIM SHARIRA	10	15	2	2	12	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
913	KAUSHAMBI	PIPARI	8	12	2	3	10	1
914	KAUSHAMBI	SAINI	10	15	1	2	18	1
915	KAUSHAMBI	SARAI AKIL	10	11	1	2	10	1
916	KHIRI	GAURIPHANTA	10	24	1	1	7	
917	KHIRI	PADUA		10*				
918	KHIRI	BHIRA	8	16	1	1	4	
919	KHIRI	CHANDAN CHAUKI	10	17	2	1	6	
920	KHIRI	DHAURAHRA	8	18	1	1	8	
921	KHIRI	GOLA	6	24	3	1	13	
922	KHIRI	HAIDRABAD	7	15	1	1	11	
923	KHIRI	ISANAGAR	8	17	2	1	8	
924	KHIRI	KHIRI	5	22	2	1		
925	KHIRI	KOTWALI SADAR	5	28	1	1	8	
926	KHIRI	MAHILA THANA	5	12	2	1		
927	KHIRI	MAIGALGANJ	8	20	2	1	9	
928	KHIRI	MAILANI	8	16	1	1	9	
929	KHIRI	MITAULI	8	22	2	1	10	
930	KHIRI	MODERN MAHILA THANA		10*				
931	KHIRI	MOHAMMADI	8	17	1	1	12	
932	KHIRI	NEEMGAON	10	21	1	1	5	
933	KHIRI	NIGHASAN		25	2	1	13	
934	KHIRI	PALIA	6	21	2	1		
935	KHIRI	PASGAWAN	6	13	1	1		
936	KHIRI	PHARDHAN	5	23	1	1	9	
937	KHIRI	PHOOLBEHAD	8	15	1	1	6	
938	KHIRI	SAMPURNANAGAR	5	20	1	1	2	
939	KHIRI	SINGAHI	6	28	2	1	7	

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
940	KHIRI	TIKONIA	8	18	2	1	10	
941	KHIRI	MAJHGAIN		10*				
942	KUSHI NAGAR	AHIRAULI BAZAR	14	8	1	1	3	1
943	KUSHI NAGAR	BARWA PATTI	12	3	1	1		1
944	KUSHI NAGAR	HANUMANGANJ	12	7	1	1	2	1
945	KUSHI NAGAR	НАТА	10	9	1	1	3	1
946	KUSHI NAGAR	JATAHAN BAZAR	16	7	1	1		
947	KUSHI NAGAR	KAPTANGANJ	10	8	1	1	3	1
948	KUSHI NAGAR	KASYA	12	6	1	1		1
949	KUSHI NAGAR	KHADDA	12	9	2	1	5	2
950	KUSHI NAGAR	KOTWALI PADRAUNA	10	8	1	1		1
951	KUSHI NAGAR	KUBER STHAN	16	8	1	1	4	1
952	KUSHI NAGAR	MAHILA THANA	8	6	1	1		1
953	KUSHI NAGAR	NEBUA NAURANGIA	10	8	2	1	6	1
954	KUSHI NAGAR	PATAHERWA	8	7	1	1		1
955	KUSHI NAGAR	RAMKOLA	12	8	1	1	4	1
956	KUSHI NAGAR	SEVRAHI	10	7	1	1		1
957	KUSHI NAGAR	TARYA SUJAN	12	5	1	1		1
958	KUSHI NAGAR	TURKPATTI	16	9	1	1		1
959	KUSHI NAGAR	VISHUNPURA	12	7	2	1	5	1
960	LALITPUR	POORAKALAN	4	2	1	1	5	1
961	LALITPUR	SAUJANA	10	2	2	2	14	3
962	LALITPUR	BALABEHAT	16	5	2	2	12	2
963	LALITPUR	BANPUR	12	5	1	2	15	2
964	LALITPUR	BAR	14	3	1	2	14	2
965	LALITPUR	GIRAR	4	2	1	1	8	2
966	LALITPUR	JAKHAURA	4	5	1	1	19	3

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
967	LALITPUR	JAKHLAUN	10	2	1	2	14	4
968	LALITPUR	KOTWALI LALITPUR	3	4	1	1	6	1
969	LALITPUR	MADANPUR	14	2	1	1	9	1
970	LALITPUR	MADAWARA	6	3	2	3	24	2
971	LALITPUR	MAHILA THANA	3	3	1	2	7	1
972	LALITPUR	MAHRAUNI	10	3	1	1	14	1
973	LALITPUR	NARAHAT	14	4	2	2	14	2
974	LALITPUR	PALI	6	4	1	2	12	2
975	LALITPUR	TALBEHAT	4	5	1	1	11	1
976	LUCKNOW	ALAMBAGH	3	32	2	2	6	1
977	LUCKNOW	ALIGANJ	2	6				
978	LUCKNOW	AMINABAD	1	5				
979	LUCKNOW	ASHIYANA	0	17	2	1	7	1
980	LUCKNOW	BAKSHI KA TALAB	2	15	1	1	5	2
981	LUCKNOW	BANTHARA	6	3	2	2	7	8
982	LUCKNOW	BAZARKHALA	2	3				
983	LUCKNOW	CANTT	0	16	1	1	9	6
984	LUCKNOW	CHINHAT		10	2	3		2
985	LUCKNOW	СНОЖК	0	3				
986	LUCKNOW	GAUTAMPALLI	1	3	1	1	5	1
987	LUCKNOW	GAZIPUR		3				
988	LUCKNOW	Gomti Nagar Vistar		9	1	1	7	1
989	LUCKNOW	GOMTINAGAR	3	8	1	1	9	1
990	LUCKNOW	GOSAINGANJ	8	14	1	1	9	1
991	LUCKNOW	GUDAMBA	2	3				
992	LUCKNOW	HASANGANJ	1	3	1	1	9	2
993	LUCKNOW	HAZRATGANJ	1	3				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
994	LUCKNOW	HUSAINGANJ	1	3				
995	LUCKNOW	INDIRANAGAR		3				
996	LUCKNOW	ITAUNJA	4	14	2	1	3	1
997	LUCKNOW	JANKIPURAM	2	6				
998	LUCKNOW	KAKORI	6	19	1	1	5	1
999	LUCKNOW	KRISHNANAGAR	0	3	1	1	9	2
1000	LUCKNOW	MAHANAGAR		3				
1001	LUCKNOW	MAHILA THANA	1	3	1	1	7	1
1002	LUCKNOW	MALIHABAD	4	24	1	1	2	1
1003	LUCKNOW	MALL	5	20	1	1	3	1
1004	LUCKNOW	MANAKNAGAR	2	18	1	1	6	1
1005	LUCKNOW	MANDION	2	7				
1006	LUCKNOW	MOHANLALGANJ	8	24	1	1	10	1
1007	LUCKNOW	NAGRAM		24				
1008	LUCKNOW	NAKA HINDOLA	1	3				
1009	LUCKNOW	NIGOHA	8	23	2	1	4	1
1010	LUCKNOW	MAHILA THANA		16				
1011	LUCKNOW	P.G.I.	0	14	1	1	12	2
1012	LUCKNOW	PARA	6	7	1	1	6	1
1013	LUCKNOW	QAISER BAGH	1	3				
1014	LUCKNOW	SAHADATGANJ	3	3				
1015	LUCKNOW	SAROJININAGAR	3	3	1	1	5	2
1016	LUCKNOW	Sushant Golf City	2	16	1	1	7	1
1017	LUCKNOW	TALKATORA	2	3				
1018	LUCKNOW	THAKURGANJ	2	4				
1019	LUCKNOW	VIBHUTI KHAND	2	8	1	1	8	1
1020	LUCKNOW	VIKASNAGAR	2	3				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1021	LUCKNOW	WAZIRGANJ		4				
1022	МАНОВА	AJNAR	12	11	2	1	2	1
1023	МАНОВА	CHARKHARI	10	12	1	1	4	2
1024	МАНОВА	KABRAI	12	18	2	1	4	2
1025	МАНОВА	KHANNA	10	16	2	1	2	1
1026	МАНОВА	KHARELA		12	1	1	6	2
1027	МАНОВА	KOTWALI NAGAR (MAHOBA)	3	16	3	1	1	1
1028	МАНОВА	KULPAHAR	18	13	1	1	4	2
1029	МАНОВА	MAHILA THANA	12	2	1	1		
1030	МАНОВА	MAHOBKANTH	12	13	1	1	3	1
1031	МАНОВА	PANWARI	12	13	1	1	3	1
1032	МАНОВА	SRINAGAR	12	16	2	4	9	2
1033	MAHRAJGANJ	BARGADWA	12	17	1	1	3	1
1034	MAHRAJGANJ	BRIJMANGANJ	9	18	1	1	1	1
1035	MAHRAJGANJ	СНОМК	12	12	1	1	2	1
1036	MAHRAJGANJ	GHUGHALI	9	20	1	1	3	1
1037	MAHRAJGANJ	KOLAHI	8	28	1	1	1	1
1038	MAHRAJGANJ	KOTHIBHAR	12	15	1	1	2	1
1039	MAHRAJGANJ	KOTWALI	6	12	1	1	1	1
1040	MAHRAJGANJ	MAHILA THANA	6	16				
1041	MAHRAJGANJ	NAUTANWA	6	16	1	1	2	1
1042	MAHRAJGANJ	NICHLAUL	6	18	1	1	2	2
1043	MAHRAJGANJ	PANIYARA	12	20	1	1	1	1
1044	MAHRAJGANJ	PARSAMALIK	12	16	2	1	2	1
1045	MAHRAJGANJ	PHARENDA	9	17	1	1	2	1
1046	MAHRAJGANJ	PURANDERPUR	10	14	1	1	2	1
1047	MAHRAJGANJ	SHYAM DEURWA	12	17	1	1	6	3

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1048	MAHRAJGANJ	SOHAGI BARWA		17	1	1	1	1
1049	MAHRAJGANJ	SONAULI	8	18	1	1	1	1
1050	MAHRAJGANJ	THUTHI BARI	12	17	1	1	3	1
1051	MAHRAJGANJ	SINDURIYA		6				
1052	MAINPURI	AILAU	18	16	2	1	8	1
1053	MAINPURI	AUNCHHA	10	10	1	1	4	1
1054	MAINPURI	BARNAHAL	10	14	2	3	3	1
1055	MAINPURI	BEWAR	12	18	1	1	3	1
1056	MAINPURI	BHONGAON	9	17	1	1	3	1
1057	MAINPURI	BICHHWA	10	13	1	1	6	2
1058	MAINPURI	DANNAHAR	15	13	2	1		
1059	MAINPURI	GHIROR	12	11	1	1	4	1
1060	MAINPURI	KARHAL	16	13	2	1	5	1
1061	MAINPURI	KISHNI	6	13	1	1	4	1
1062	MAINPURI	KOTWALI	4	18	2	2	2	1
1063	MAINPURI	KURAOLI	4	11	1	1		
1064	MAINPURI	KURRA	14	9	1	1	7	1
1065	MAINPURI	MAHILA THANA	4	15	1	1		
1066	MATHURA	BALDEO	16	8	1	1	4	1
1067	MATHURA	BARSANA	4	4	1	1	3	2
1068	MATHURA	СННАТА	9	4	1	1		
1069	MATHURA	FARAH	8	6	2	1	14	4
1070	MATHURA	GOVARDHAN	0	5	1	1		2
1071	MATHURA	GOVIND NAGAR	3	8	1	1		1
1072	MATHURA	HIGHWAY	1	6	1	1	3	2
1073	MATHURA	JAMUNAPAR	6	32	2	1	6	2
1074	MATHURA	KOSIKALAN	10	4	1	1		

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1075	MATHURA	KOTWALI		17	1	1	5	1
1076	MATHURA	MAGORRA	10	4	1	1	4	1
1077	MATHURA	MAHAVAN	18	5	1	1	1	1
1078	MATHURA	MAHILA THANA	2	17	1	1		2
1079	MATHURA	MANT	19	5	1	1	4	2
1080	MATHURA	NAUJHIL	14	6	1	1	3	2
1081	MATHURA	RAYA	16	5	1	1		1
1082	MATHURA	REFINERY	1	4	1	1		
1083	MATHURA	SADAR BAZAR	6	5	1	1		1
1084	MATHURA	SHERGARH	12	4	1	1	4	2
1085	MATHURA	SURIR	19	7	1	1	8	2
1086	MATHURA	VRINDAVAN	2	39	1	2	3	2
1087	MATHURA	PRYATAK THANA VRINDAVAN		10*				
1088	MATHURA	ZAIT		10*				
1089	MAU	RAMPUR	10	7	1	1		
1090	MAU	CHIRAIYAKOT	12	7	1	1		
1091	MAU	DAKSHINTOLA	8	8	3	1	5	
1092	MAU	DOHARIGHAT	6	9	1	1	11	
1093	MAU	GHOSI	6	6	1	1		
1094	MAU	HALDHARPUR	8	7	2	1	5	
1095	MAU	KOPAGANJ	12	6	1	1		
1096	MAU	KOTWALI MAU	10	10	1	1		
1097	MAU	MADHUBAN	6	5	1	1	8	
1098	MAU	MAHILA THANA	10	9	2	1		
1099	MAU	MUHAMMADABAD	12	7	1	1	7	
1100	MAU	RANIPUR	12	7	1	1		
1101	MAU	SARAIYLAKHANSI	7	10	1	1		

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1102	MEERUT	BAHSUMA	6	17	1	1	8	1
1103	MEERUT	BHAWANPUR	8	12	1	1	6	2
1104	MEERUT	BRAHMPURI	3	30	1	3	4	1
1105	MEERUT	CIVIL LINES	4	20	1	2	4	1
1106	MEERUT	DAURALA	1	18	1	2	15	2
1107	MEERUT	DELHI GATE	4	12	1	2	6	2
1108	MEERUT	FALAVDA	4	38	1	2	6	2
1109	MEERUT	GANGANAGAR	6	12	1	2	4	1
1110	MEERUT	HASTINAPUR	7	15	1	4	10	1
1111	MEERUT	INCHAULI	10	14	2	1	6	1
1112	MEERUT	JANI	10	19	1	2	12	2
1113	MEERUT	KANKAR KHERA	1	12	2	1	7	2
1114	MEERUT	KHARKHAUDA	14	17	2	2	6	2
1115	MEERUT	KITHORE	10	14	1	3	8	1
1116	MEERUT	KOTWALI	5	13	2	3	9	2
1117	MEERUT	LAL KURTI	3	18	1	2	5	1
1118	MEERUT	LISARIGATE	6	10	1	2	6	1
1119	MEERUT	MAHILA THANA	4	15	2	1	4	1
1120	MEERUT	MAWANA	6	18	2	1	7	1
1121	MEERUT	MEDICAL COLLEGE	3	13	1	4	10	1
1122	MEERUT	MUNDALI	12	18	1	2	9	1
1123	MEERUT	NAUCHANDI	5	15	1	3	9	1
1124	MEERUT	PALLAVPURAM	4	10	1	3	8	1
1125	MEERUT	PARIKSHITGARH	6	15	1	5	8	1
1126	MEERUT	PARTAPUR	1	15	1	4	13	2
1127	MEERUT	RAILWAY ROAD	1	9	1	2	6	2
1128	MEERUT	ROHTA	3	21	2	10	20	4

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1129	MEERUT	SADAR BAZAR	4	13	1	3	12	1
1130	MEERUT	SARDHANA	9	20	2	3	10	1
1131	MEERUT	SAROORPUR	6	15	2	4	8	1
1132	MEERUT	TRANSPORT NAGAR	5	12	1	2	4	1
1133	MIRZAPUR	ADALHAT	6	10	4	3	9	2
1134	MIRZAPUR	AHRAURA	8	15	2	4	7	1
1135	MIRZAPUR	CHILH	12	10	1	3	6	1
1136	MIRZAPUR	HALIA	10	12	1	5	7	1
1137	MIRZAPUR	JAMALPUR	12	12	1	3	12	1
1138	MIRZAPUR	JIGANA	8	9	1	3	6	1
1139	MIRZAPUR	KACHHWA	12	14	1	2	6	1
1140	MIRZAPUR	KOTWALI CHUNAR	6	13	1	2	6	1
1141	MIRZAPUR	KOTWALI CITY	2	14	1			
1142	MIRZAPUR	KOTWALI DEHAT	2	19	2	3	8	1
1143	MIRZAPUR	KOTWALI KATRA	2	11	1	4	9	1
1144	MIRZAPUR	LALGANJ	4	11	1	5	14	3
1145	MIRZAPUR	MADIHAN	8	14	2	2	9	1
1146	MIRZAPUR	MAHILA THANA	2	10	1	1	3	1
1147	MIRZAPUR	PADARI	14	15	1	3	10	1
1148	MIRZAPUR	VINDHYACHAL	2	19	1	5	15	3
1149	MORADABAD	BHAGATPUR	6	15	1	1	10	1
1150	MORADABAD	BHOJPUR	10	15	1	1	6	2
1151	MORADABAD	BILARI	5	15	1	1	2	1
1152	MORADABAD	CHHAJLET	12	15	1		2	2
1153	MORADABAD	CIVIL LINES	0	15	1		3	2
1154	MORADABAD	DILARI	6	15	1	3	7	2
1155	MORADABAD	GALSHEED	6	15	1	2	4	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1156	MORADABAD	SONAKPUR		10*				
1157	MORADABAD	KANTH	6	15	2	1	4	2
1158	MORADABAD	KATGHAR	3	15	1	1	6	1
1159	MORADABAD	KOTWALI	3	15	2	1	6	1
1160	MORADABAD	KUNDARKI	10	15	2	1	3	1
1161	MORADABAD	MAHILA THANA	0	15	1	1	2	2
1162	MORADABAD	MAINATHER	5	15	1	1	14	3
1163	MORADABAD	MAJHOLA	0	15	1	1	4	1
1164	MORADABAD	MUGALPURA	4	15	1	1	5	1
1165	MORADABAD	MUNDHA PANDAY	12	15	1	1	8	2
1166	MORADABAD	NAGPHANI	0	15	1	1	4	1
1167	MORADABAD	PAKBARA	4	15	2	1	7	3
1168	MORADABAD	THAKUR DWARA	8	15	1	3	6	3
1169	MORADABAD	HAZRATNAGAR GADHI	7	15	1	1	6	1
1170	MUZAFFAR NAGAR	BHOPA	6	21	1	1		
1171	MUZAFFAR NAGAR	BHORA KALAN	12	7	2	1	7	3
1172	MUZAFFAR NAGAR	BUDHANA	6	6	1	3	17	2
1173	MUZAFFAR NAGAR	CHARTHAWAL	10	4	2	3	18	1
1174	MUZAFFAR NAGAR	CHHAPAR	10	3	2	1	8	1
1175	MUZAFFAR NAGAR	CIVIL LINES	6	6	2	1	6	1
1176	MUZAFFAR NAGAR	JANSATH	6	6	2	2	12	3
1177	MUZAFFAR NAGAR	KAKRAULI	6	21	1	5	24	3
1178	MUZAFFAR NAGAR	KHATAULI	6	8	2	2	14	3
1179	MUZAFFAR NAGAR	KOTWALI NAGAR	6	4	1	1	5	1
1180	MUZAFFAR NAGAR	MAHILA THANA	6	2	1	1	6	1
1181	MUZAFFAR NAGAR	MANSOORPUR	8	7	1	2	6	2
1182	MUZAFFAR NAGAR	MIRAPUR	12	3	2	2	17	3

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1183	MUZAFFAR NAGAR	NAI MANDI	6	8	2	1	10	2
1184	MUZAFFAR NAGAR	PHUGANA	12	6	2	1	8	2
1185	MUZAFFAR NAGAR	PURKAJI	6	5	2	2	12	3
1186	MUZAFFAR NAGAR	RAMRAJ	8	10	1	1	8	1
1187	MUZAFFAR NAGAR	RATANPURI	6	23	1	1	5	1
1188	MUZAFFAR NAGAR	SHAHPUR		24	1	3	10	3
1189	MUZAFFAR NAGAR	SIKHERA	6	8	1	1	6	1
1190	MUZAFFAR NAGAR	TITAWI	8	6	2	3	16	3
1191	MUZAFFAR NAGAR	Khala Par		10*				
1192	PILIBHIT	GHUNGHACHAEE		10*				
1193	PILIBHIT	AMARIA	8	12	1	1	4	1
1194	PILIBHIT	BARKHERA	8	12	1	1	13	1
1195	PILIBHIT	BILSANDA	10	13	1	1	4	1
1196	PILIBHIT	BISALPUR	8	13	1	1	6	1
1197	PILIBHIT	DEORIYA KALAN	8	12	1	1	4	1
1198	PILIBHIT	GAJRAULA	8	12	3	1	9	1
1199	PILIBHIT	HAZARA	10	13	1	1	2	1
1200	PILIBHIT	JAHANABAD	8	12	1	1	5	1
1201	PILIBHIT	KOTWALI	6	14	1	1	2	1
1202	PILIBHIT	MADHOTANDA	8	12	1	1	5	1
1203	PILIBHIT	MAHILA THANA	6	12	1	1		
1204	PILIBHIT	NEORIA	8	12	1	1	7	1
1205	PILIBHIT	PURANPUR	8	14	2	1	4	1
1206	PILIBHIT	SEHRAMAU NORTH	8	12	1	1		
1207	PILIBHIT	SUNGADI	6	12	1	1	8	1
1208	PRATAPGARH	DILEEPPUR		10*				
1209	PRATAPGARH	LEELAPUR		10*				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1210	PRATAPGARH	AASPUR DEOSARA	6	6	1	1		
1211	PRATAPGARH	ANTOO	13	6	1	1		
1212	PRATAPGARH	BAGHRAI	10	6	2	1		
1213	PRATAPGARH	FATANPUR	8	6	1	1		
1214	PRATAPGARH	HATHIGAWAN	10	6	1	1		
1215	PRATAPGARH	JETHWARA	12	6	1	1		
1216	PRATAPGARH	KANDHAI	16	6	1	1		
1217	PRATAPGARH	KOHANDAUR	9	6	1	1		
1218	PRATAPGARH	KOTWALI CITY	2	6	1	1		
1219	PRATAPGARH	KUNDA	4	6	1	1		
1220	PRATAPGARH	LALGANJ	8	6	2	1		
1221	PRATAPGARH	MAHESHGANJ	10	6	1	1		
1222	PRATAPGARH	MAHILA THANA	2	6	2	1		
1223	PRATAPGARH	MANDHATA	8	6	1	1		
1224	PRATAPGARH	MANIKPUR	9	6	1	1		
1225	PRATAPGARH	NAWABGANJ	10	6	1	1		
1226	PRATAPGARH	PATTI	4	6	1	1		
1227	PRATAPGARH	RANIGANJ	8	6	1	1		
1228	PRATAPGARH	SANGIPUR	10	6	1	1		
1229	PRATAPGARH	SANGRAMGARH	8	6	1	1		
1230	PRATAPGARH	UDAIPUR	9	6	1	1		
1231	PRATAPGARH	DELHUPUR		10*				
1232	PRATAPGARH	KOTWALI DEHAT		10*				
1233	PRAYAGRAJ	ATTARSUIYA	2	17				
1234	PRAYAGRAJ	BAHARIA	12	15				
1235	PRAYAGRAJ	BARA		15				
1236	PRAYAGRAJ	CANTT	0	15				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1237	PRAYAGRAJ	CIVIL LINES	0	15				
1238	PRAYAGRAJ	COLONALGANJ	3	15				
1239	PRAYAGRAJ	DARAGANJ	2	15				
1240	PRAYAGRAJ	DHOOMANGANJ	5	15				
1241	PRAYAGRAJ	GEORGE TOWN	2	15				
1242	PRAYAGRAJ	GHOORPUR	8	17				
1243	PRAYAGRAJ	HANDIA	8	16				
1244	PRAYAGRAJ	HOLA GARH	10	15				
1245	PRAYAGRAJ	INDUSTRIAL AREA	3	17				
1246	PRAYAGRAJ	JHUNSI	2	16				
1247	PRAYAGRAJ	KARCHHANA	5	17				
1248	PRAYAGRAJ	KARELI	4	15				
1249	PRAYAGRAJ	KAUNDHIYARA	10	15				
1250	PRAYAGRAJ	KHERI	9	6				
1251	PRAYAGRAJ	KHULDABAD	4	15				
1252	PRAYAGRAJ	KORAON		17				
1253	PRAYAGRAJ	KOTWALI	1	15				
1254	PRAYAGRAJ	KYDGANJ	2	17				
1255	PRAYAGRAJ	LALAPUR	8	15				
1256	PRAYAGRAJ	MAHILA THANA	2	15				
1257	PRAYAGRAJ	MANDA	8	15				
1258	PRAYAGRAJ	MAUAIMA	5	15				
1259	PRAYAGRAJ	MEJA	6	15				
1260	PRAYAGRAJ	MUTTHIGANJ	3	15				
1261	PRAYAGRAJ	NAINI	1	17				
1262	PRAYAGRAJ	NAWABGANJ	6	15				
1263	PRAYAGRAJ	PHOOLPUR	6	15				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1264	PRAYAGRAJ	SARAI INAYAT	8	15				
1265	PRAYAGRAJ	SARAI MEMREZ	8	15				
1266	PRAYAGRAJ	SHAHGANJ	5	15				
1267	PRAYAGRAJ	SHANKERGARH	5	15				
1268	PRAYAGRAJ	SHIVKUTI	2	15				
1269	PRAYAGRAJ	SORAON	6	15				
1270	PRAYAGRAJ	THARVAI	10	15				
1271	PRAYAGRAJ	UTRAON	8	15				
1272	PRAYAGRAJ	PHAPHAMAU		10*				
1273	PRAYAGRAJ	PURAMUFTI		6				
1274	RAE BARELI	BACHHRAWAN	5	13	1	2	10	10
1275	RAE BARELI	BHADOKHAR	6	23	2		5	11
1276	RAE BARELI	DALMAU	7	15	1	1	6	6
1277	RAE BARELI	DEEH	8	15	2	3	7	5
1278	RAE BARELI	GADAGANJ	8	17	1	2	8	8
1279	RAE BARELI	GURBUXGANJ		26	1			
1280	RAE BARELI	HARCHANDPUR	8	20	1	3	8	12
1281	RAE BARELI	INDUSTRIAL AREA	5	10	2		8	6
1282	RAE BARELI	JAGATPUR	8	24	2	2	4	8
1283	RAE BARELI	KHEERON		27	2		3	9
1284	RAE BARELI	KOTWALI NAGAR	0	15	3		12	18
1285	RAE BARELI	LALGANJ	6	20	2	2	7	12
1286	RAE BARELI	MAHARAJGANJ	6	17	2	1	6	12
1287	RAE BARELI	MAHILA THANA	4	10	1	1	7	3
1288	RAE BARELI	NASEERABAD	8	16	1	3	6	10
1289	RAE BARELI	SALON	6	16	1	1	8	7
1290	RAE BARELI	SARENI		23	1			

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1291	RAE BARELI	SHIV GARH	6	24	1	2	8	3
1292	RAE BARELI	UNCHAHAR		14	1	1	9	2
1293	RAMPUR	AZIM NAGAR	10	18	2	2	7	1
1294	RAMPUR	внот	10	13	1	1	2	1
1295	RAMPUR	BILASPUR	8	16	2	1	5	2
1296	RAMPUR	CIVIL LINES	6	16	2	4	16	2
1297	RAMPUR	GANJ	6	12	1	3	8	2
1298	RAMPUR	KEMRI	8	15	1	1	9	1
1299	RAMPUR	KHAJURIA	10	14	2	2	12	1
1300	RAMPUR	KOTWALI	6	15	1	2	14	2
1301	RAMPUR	MAHILA THANA	1	13	2	2	4	1
1302	RAMPUR	MILAK	8	12	1	1	8	2
1303	RAMPUR	MILAK KHANAM	10	12	1	1	4	1
1304	RAMPUR	PATWAI		11				
1305	RAMPUR	SHAHABAD	9	11	1	1	8	2
1306	RAMPUR	SHAHZAD NAGAR	10	13	1	2	6	1
1307	RAMPUR	SWAAR	10	13	1	2	10	1
1308	RAMPUR	TANDA	10	14	1	2	6	1
1309	SAHARANPUR	BARGAON	8	7	1	1	8	1
1310	SAHARANPUR	BEHAT	10	15	2	2	10	3
1311	SAHARANPUR	BIHARIGARH	6	8	1	3	9	2
1312	SAHARANPUR	CHILKANA	8	7	1	1	10	2
1313	SAHARANPUR	DEOBAND	10	8	1	1	4	1
1314	SAHARANPUR	FATEHPUR	10	12	1	1	7	1
1315	SAHARANPUR	GAGALHERI	3	2	1	1	4	1
1316	SAHARANPUR	GANGOH	7	8	1	2	7	2
1317	SAHARANPUR	JANAK PURI	8	8	1	1	8	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1318	SAHARANPUR	KOTWALI DEHAT	6	2	2	1	3	1
1319	SAHARANPUR	KOTWALI MANDI	3	8	1	2	6	2
1320	SAHARANPUR	KOTWALI NAGAR	5	9	1	2	12	3
1321	SAHARANPUR	KUTUBSHER	4	8	1	1	7	1
1322	SAHARANPUR	MAHILA THANA	8	12	2	2	9	1
1323	SAHARANPUR	MIRZAPUR	14	8	1	2	8	1
1324	SAHARANPUR	NAGAL	12	9	1	2	10	2
1325	SAHARANPUR	NAKUR	8	7	1	1	4	1
1326	SAHARANPUR	NANAUTA	10	8	1	1	10	2
1327	SAHARANPUR	RAMPUR MANIHARAN	7	6	1	2	9	1
1328	SAHARANPUR	SADAR BAZAR	4	8	1	1	6	2
1329	SAHARANPUR	SARSAWA	8	7	2	1	6	1
1330	SAHARANPUR	TITRON	6	9	2	2	7	1
1331	SAMBHAL	ASMOLI	9	2				
1332	SAMBHAL	BAHJOI	8	3	1	2	6	
1333	SAMBHAL	BANIYATHER	4	4	2	1	4	1
1334	SAMBHAL	CHANDAUSI	5	4	1	1	2	3
1335	SAMBHAL	DHANARI	12	3				
1336	SAMBHAL	GUNNOUR	7	4	1	5	14	3
1337	SAMBHAL	HAYATNAGAR	6	4				
1338	SAMBHAL	KUDHFATEHGARH	9	4	1	2	17	1
1339	SAMBHAL	MAHILA THANA		2				
1340	SAMBHAL	NAKHASA	7	5				
1341	SAMBHAL	RAJPURA		3				
1342	SAMBHAL	SAMBHAL	10	5	1	2	2	1
1343	SANT KABEER NAGAR	BELAHARKALA	10	11	1	1	2	1
1344	SANT KABEER NAGAR	BAKHIRA	10	12	1	1	3	1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1345	SANT KABEER NAGAR	DHANGHATA	8	15	1	1	6	1
1346	SANT KABEER NAGAR	DHARAMSINGHWA	10	12	1	1	2	1
1347	SANT KABEER NAGAR	DUDHARA	10	14	1	1	4	1
1348	SANT KABEER NAGAR	KHALILABAD	4	15	1	1	7	2
1349	SANT KABEER NAGAR	MAHILA THANA	4	9	1	1	4	2
1350	SANT KABEER NAGAR	MAHULI	10	13	1	1	5	1
1351	SANT KABEER NAGAR	MEHDAWAL	8	12	2	2		
1352	SHAHJAHANPUR	ALLAHGANJ	0	8				
1353	SHAHJAHANPUR	BANDA	0	8				
1354	SHAHJAHANPUR	GARHIYA RANGEEN	0	7				
1355	SHAHJAHANPUR	JAITIPUR	0	6				
1356	SHAHJAHANPUR	JALALABAD	0	6				
1357	SHAHJAHANPUR	KALAN	0	6				
1358	SHAHJAHANPUR	KANT	0	8				
1359	SHAHJAHANPUR	KATRA	0	8				
1360	SHAHJAHANPUR	KHUDAGANJ	0	6				
1361	SHAHJAHANPUR	KHUTAR	0	6				
1362	SHAHJAHANPUR	KOTWALI	0	7				
1363	SHAHJAHANPUR	MADNAPUR	0	7				
1364	SHAHJAHANPUR	MAHILA THANA	0	6				
1365	SHAHJAHANPUR	MIRZAPUR	0	6				
1366	SHAHJAHANPUR	NIGOHI	0	5				
1367	SHAHJAHANPUR	PARAUR	0	7				
1368	SHAHJAHANPUR	POWAYAN	0	6				
1369	SHAHJAHANPUR	RAMCHANDRA MISSON	0	6				
1370	SHAHJAHANPUR	ROJA	0	8				
1371	SHAHJAHANPUR	S.M. SOUTH	0	9				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1372	SHAHJAHANPUR	SADAR BAZAR	0	6				
1373	SHAHJAHANPUR	SINDHAULI	0	6				
1374	SHAHJAHANPUR	TILHAR	0	7				
1375	SHAMLI	AADARSH MANDI	5	19	2	1	11	3
1376	SHAMLI	BABRI	7	35	1	1	4	1
1377	SHAMLI	GARHI PUKHTA	10	24	2	1		1
1378	SHAMLI	JHINJHANA	7	28	1	1	9	2
1379	SHAMLI	KAIRANA	6	40	1	1	8	1
1380	SHAMLI	KANDHLA	6	30	2	1	13	3
1381	SHAMLI	MAHILA THANA	8	15	1	1	4	1
1382	SHAMLI	SHAMLI	6	40	3	3	8	3
1383	SHAMLI	THANA BHAWAN	7	24	1	1	14	4
1384	SHRAVASTI	NAVIN MODERN POLICE THANA		10*				
1385	SHRAVASTI	BHINGA	6	21				
1386	SHRAVASTI	GILAULA	12	19				
1387	SHRAVASTI	IKAUNA	8	22				
1388	SHRAVASTI	MAHILA THANA	6	22				
1389	SHRAVASTI	MALHIPUR	6	25				
1390	SHRAVASTI	SIRSIYA	12	20				
1391	SHRAVASTI	SONAVA	6	25				
1392	SIDDHARTH NAGAR	BANSI	4	13	1	2	14	1
1393	SIDDHARTH NAGAR	BHAWANIGANJ	10	15	2	2	16	1
1394	SIDDHARTH NAGAR	CHILHIA	8	19	1		16	1
1395	SIDDHARTH NAGAR	DHEBARUA	9	19	1	3	10	2
1396	SIDDHARTH NAGAR	DUMARIYAGANJ	6	15	2	2	14	2
1397	SIDDHARTH NAGAR	GOLHAURA	10	16	2	2	9	
1398	SIDDHARTH NAGAR	ITWA	4	13	1	2	9	2

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1399	SIDDHARTH NAGAR	JOGIA UDAIPUR	10	16	1	2	16	3
1400	SIDDHARTH NAGAR	KAPILVASTU	10	19	1	1	10	1
1401	SIDDHARTH NAGAR	KATHELA SAMAYMATA		10*				
1402	SIDDHARTH NAGAR	KHESRAHA	10	18	1	2	13	1
1403	SIDDHARTH NAGAR	LOTAN	8	17	1	1	10	1
1404	SIDDHARTH NAGAR	MAHILA THANA	2	14	2	1	11	1
1405	SIDDHARTH NAGAR	MISHRAULIA	10	20	1	2	12	2
1406	SIDDHARTH NAGAR	MOHANA	8	18	2	2	11	1
1407	SIDDHARTH NAGAR	PATHRA BAZAR	8	12	1	1	10	2
1408	SIDDHARTH NAGAR	SHIVNAGAR DIDAI		10*				
1409	SIDDHARTH NAGAR	SHOHRAT GARH	4	22	2	1	18	1
1410	SIDDHARTH NAGAR	SIDDHARTHNAGAR	2	16	1	2	25	2
1411	SIDDHARTH NAGAR	TRILOKPUR	8	14	1	1	7	1
1412	SIDDHARTH NAGAR	USKA BAZAR	8	20	1	2	23	2
1413	SITAPUR	ATARIA	12	12	1	2	10	1
1414	SITAPUR	BISWAN	6	7	1	1	17	1
1415	SITAPUR	HARGAON	8	5	1	2	5	1
1416	SITAPUR	IMALIA SULTANPUR	16	5	1	2	12	2
1417	SITAPUR	KAMLAPUR	6	5	1	3	14	1
1418	SITAPUR	KHAIRABAD	4	15	2	2	15	1
1419	SITAPUR	KOTWALI	2	12	2	3	10	1
1420	SITAPUR	KOTWALI DEHAT		10*				
1421	SITAPUR	LAHARPUR	8	9	1	2	13	4
1422	SITAPUR	MACHREHTA	12	7	1	2	16	1
1423	SITAPUR	MAHILA THANA	2	5	1	3	9	2
1424	SITAPUR	MAHMUDABAD	12	10	2	2	13	2
1425	SITAPUR	MAHOLI	7	5	2	4	14	3

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1426	SITAPUR	MANPUR	15	10	1	2	13	1
1427	SITAPUR	MISHRIT	6	10	1	1	9	1
1428	SITAPUR	NAIMISHARANYA		10*				
1429	SITAPUR	PISAWAN	8	6	1	1	11	2
1430	SITAPUR	RAMKOT	5	11	1	2	13	1
1431	SITAPUR	RAMPUR KALAN	12	6	2	2	8	1
1432	SITAPUR	RAMPUR MATHURA	14	14	1	1	8	1
1433	SITAPUR	RAUSA	15	4	1	1	6	1
1434	SITAPUR	SADARPUR	16	12	2	1	11	1
1435	SITAPUR	SAKRAN	14	5	1	1	10	1
1436	SITAPUR	SANDHANA	10	9	1	2	7	1
1437	SITAPUR	SIDHAULI	6	7	1	2	6	1
1438	SITAPUR	TALGAON	12	6	2	3	14	3
1439	SITAPUR	TAMBAUR	8	5	1	1	11	2
1440	SITAPUR	THANGAON	16	9	1	1	11	1
1441	SONBHADRA	ANPARA	1	22	2	1	1	
1442	SONBHADRA	BABHANI	10	22	1	1	6	3
1443	SONBHADRA	BEEJPUR	0	30	2	1	5	2
1444	SONBHADRA	CHOPAN	6	30	2	1		1
1445	SONBHADRA	DUDDHI	10	20	1	1	7	2
1446	SONBHADRA	GHORAWAL	6	28	2	1		1
1447	SONBHADRA	HATHINALA	8	42	2	1		1
1448	SONBHADRA	JUGAIL	12	12	1	1	5	1
1449	SONBHADRA	KARMA	12	29	2	1		1
1450	SONBHADRA	KONE	12	33	2	1		1
1451	SONBHADRA	MAHILA THANA		4				
1452	SONBHADRA	MANCHI	16	42	2	1		1

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1453	SONBHADRA	MYORPUR	8	15	1	1	6	2
1454	SONBHADRA	OBRA	1	48	1	1		1
1455	SONBHADRA	PANNUGANJ	10	40	2	1		1
1456	SONBHADRA	PIPARI	2	36	2	1		1
1457	SONBHADRA	RAIPUR	8	48	2	1		1
1458	SONBHADRA	RAMPUR BARKONIYA	5	32	2	1		1
1459	SONBHADRA	ROBERTSGANJ	5	15	2	1	6	2
1460	SONBHADRA	SHAHGANJ	14	30	2	1		1
1461	SONBHADRA	SHAKTINAGAR	1	23	1	1	4	2
1462	SONBHADRA	WINDHAMGANJ	10	18	2	1	3	1
1463	SULTANPUR	AKHANDNAGAR	8	5	1	1	5	1
1464	SULTANPUR	BALDIRAI	8	5	1	1	3	2
1465	SULTANPUR	CHANDA	8	5	1			1
1466	SULTANPUR	DHAMMAUR	8	5	1	1		1
1467	SULTANPUR	DOSTPUR	8	5	1			1
1468	SULTANPUR	GOSAIGANJ	8	5	1	1	8	2
1469	SULTANPUR	HALIYAPUR	8	5	1			1
1470	SULTANPUR	JAISINGHPUR	8	5	1	1	3	1
1471	SULTANPUR	KADIPUR	8	5	1			1
1472	SULTANPUR	KARAUNDIKALAN	8	5	1	1	3	2
1473	SULTANPUR	KOTWALI	6	5	1	1	3	1
1474	SULTANPUR	KOTWALI DEHAT	8	5	1	1		2
1475	SULTANPUR	KUDWAR	8	5	1	1	4	2
1476	SULTANPUR	KUREBHAR	8	5	1			1
1477	SULTANPUR	LAMBHUA	8	5	1	1	7	1
1478	SULTANPUR	MAHILA THANA	6	5	1	1		1
1479	SULTANPUR	MOTIGARPUR		10*				

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1480	SULTANPUR	DHANPATGANJ		4				
1481	SULTANPUR	BANDHUAKALAN		4				
1482	UNNAO	ACHALGANJ	10	10				
1483	UNNAO	AJGAIN	12	9	1	2	9	1
1484	UNNAO	ASIWAN	12	8				
1485	UNNAO	ASOHA	10	11				
1486	UNNAO	AURAS	12	10				
1487	UNNAO	BANGARMAU	6	11				
1488	UNNAO	BARASAGWAR	4	9				
1489	UNNAO	BEHTAMUJAWAR	10	11				
1490	UNNAO	BIGHAPUR	4	9				
1491	UNNAO	BIHAR	8	7				
1492	UNNAO	FATEHPUR CHAURASI	12	10				
1493	UNNAO	GANGAGHAT	8	8	1	1	6	1
1494	UNNAO	HASANGANJ	10	11				
1495	UNNAO	KOTWALI	6	6				
1496	UNNAO	MAHILA THANA	4	8				
1497	UNNAO	МАКНІ	8	10				
1498	UNNAO	MAURAWAN	10	11				
1499	UNNAO	PURWA	8	10				
1500	UNNAO	SAFIPUR	5	14				
1501	UNNAO	SOHRA MAU	10	11	1	1	8	1
1502	UNNAO	MODERN P S DHAHI		10*				
1503	VARANASI	ADAMPUR	3	15	2	1		
1504	VARANASI	BARAGAON	8	19	1	1	3	
1505	VARANASI	BHELUPUR	3	20	1	1		
1506	VARANASI	CANTT	3	22	1	1		

S. No.	District	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1507	VARANASI	CHAUBEPUR	8	19	1	1	1	
1508	VARANASI	CHETGANJ	3	13	1	1		
1509	VARANASI	CHOLAPUR	8	20	1	1	11	
1510	VARANASI	СНОЖК	3	20	1	1	12	
1511	VARANASI	DASHASHWMEDH	3	14	1	1		
1512	VARANASI	JAITPURA	3	15	2	1		
1513	VARANASI	JANSA	8	16	1	1		
1514	VARANASI	KAPSETHI	8	20	1	1		
1515	VARANASI	KOTWALI	3	20	2	1	4	
1516	VARANASI	LAKSA	3	12	1	1		
1517	VARANASI	LALPUR/PANDEYPUR	3	15	1	1		
1518	VARANASI	LANKA	2	15	1	1		
1519	VARANASI	LOHTA	8	17	1	1		
1520	VARANASI	MAHILA THANA	3	8	1	1		
1521	VARANASI	MANDUADEEH	3	15	1	1		
1522	VARANASI	MIRZAMURAD	8	15	2	1		
1523	VARANASI	PARYATAK	3	20	1	1		
1524	VARANASI	PHOOLPUR	8	23	3	1		
1525	VARANASI	RAMNAGAR	2	15	2	1		
1526	VARANASI	ROHANIYA	8	17	1	1		
1527	VARANASI	SARNATH	3	20	1	1		
1528	VARANASI	SHIVPUR	3	14	1	1		
1529	VARANASI	SIGRA	3	15	1	1		
1530	VARANASI	SINDHAURA	8	21	1	1	2	

*Camera count as discussed by Department.

The 79 Mahila Police Chowki Paramarsh Kendras will have 1 dedicated camera each at respective Police Station

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
1	ALIGARH	ANTI-HUMAN TRAFFICKING UNIT	4	4	1	1	3	1
2	BANDA	ANTI-HUMAN TRAFFICKING UNIT	5	4	1	1	3	1
3	BULANDSHAHAR	ANTI-HUMAN TRAFFICKING UNIT	18	8	1	1	3	1
4	DEORIA	ANTI-HUMAN TRAFFICKING UNIT	4	4	1	1	1	1
5	ETAH	ANTI-HUMAN TRAFFICKING UNIT	5	3	1	1	1	1
6	ETAWAH	ANTI-HUMAN TRAFFICKING UNIT	10	4	1	2	3	1
7	AYODHYA	ANTI-HUMAN TRAFFICKING UNIT	4	5				
8	FATEHGARH	ANTI-HUMAN TRAFFICKING UNIT	6	3	1	0	2	1
9	FATEHPUR	ANTI-HUMAN TRAFFICKING UNIT	4	9	2	2	4	1
10	GHAZIPUR	ANTI-HUMAN TRAFFICKING UNIT	4	5	1	1	3	1
11	GONDA	ANTI-HUMAN TRAFFICKING UNIT	6	4			2	1
12	HAMIRPUR	ANTI-HUMAN TRAFFICKING UNIT	3	5	2	0	3	3
13	JALAUN	ANTI-HUMAN TRAFFICKING UNIT	2	6	1	0	3	1
14	MAINPURI	ANTI-HUMAN TRAFFICKING UNIT	4	4	2	2	3	
15	MATHURA	ANTI-HUMAN TRAFFICKING UNIT	0	4	1	1	2	1
16	MIRZAPUR	ANTI-HUMAN TRAFFICKING UNIT	4	3	1	0	2	1
17	PRATAPGARH	ANTI-HUMAN TRAFFICKING UNIT	2	4	1	0	2	1
18	RAE BARELI	ANTI-HUMAN TRAFFICKING UNIT	5	13	1	1	5	1
19	RAMPUR	ANTI-HUMAN TRAFFICKING UNIT	16	11	1	1	3	1
20	SAHARANPUR	ANTI-HUMAN TRAFFICKING UNIT		2*				
21	SULTANPUR	ANTI-HUMAN TRAFFICKING UNIT	2	4	1	0	2	1
22	LALITPUR	ANTI-HUMAN TRAFFICKING UNIT	20	5	1	1	10	6
23	KANPUR DEHAT	ANTI-HUMAN TRAFFICKING UNIT	4	7	1	1	4	1

B. Camera Details for 249 Non-DEF Police Stations

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
24	SONBHADRA	ANTI-HUMAN TRAFFICKING UNIT	4	4	1	0	1	1
25	BHADOHI	ANTI-HUMAN TRAFFICKING UNIT		5	1	1	4	1
26	MAHOBA	ANTI-HUMAN TRAFFICKING UNIT	3	3	1	1	1	1
27	AMBEDKAR NAGAR	ANTI-HUMAN TRAFFICKING UNIT	18	3	1	1	6	1
28	SAMBHAL	ANTI-HUMAN TRAFFICKING UNIT	4	3	1	1	5	1
29	HAPUR	ANTI-HUMAN TRAFFICKING UNIT	3	4	1	1	2	1
30	SHAMLI	ANTI-HUMAN TRAFFICKING UNIT	6	5	1	1	6	2
31	KAUSHAMBI	ANTI-HUMAN TRAFFICKING UNIT	22	3	1	1	3	1
32	CHANDAULI	ANTI-HUMAN TRAFFICKING UNIT	4	2	1	1	1	1
33	CHITRAKOOT	ANTI-HUMAN TRAFFICKING UNIT	6	4	1	1	2	1
34	HATHRAS	ANTI-HUMAN TRAFFICKING UNIT	4	2				
35	SANT KABEER NAGAR	ANTI-HUMAN TRAFFICKING UNIT	4	8	2	1	4	1
36	KANNAUJ	ANTI-HUMAN TRAFFICKING UNIT		2				
37	AURAIYA	ANTI-HUMAN TRAFFICKING UNIT	2	9	1	1	9	1
38	KASGANJ	ANTI-HUMAN TRAFFICKING UNIT	16	5	1	1	4	1
39	AMETHI	ANTI-HUMAN TRAFFICKING UNIT	5	4	1	1	4	1
40	JYOTIBAPHULLEYNAGAR	ANTI-HUMAN TRAFFICKING UNIT	12	3	1	1	1	1
41	AGRA	ANTI-HUMAN TRAFFICKING UNIT	2	6	1	1	7	1
42	AZAMGARH	ANTI-HUMAN TRAFFICKING UNIT	4	3	1	1	2	1
43	BAHRAICH	ANTI-HUMAN TRAFFICKING UNIT	12	6	1	0	4	4
44	BADAUN	ANTI-HUMAN TRAFFICKING UNIT	2	5	1	1	6	1
45	BAGHPAT	ANTI-HUMAN TRAFFICKING UNIT	2	3	1	1	6	1
46	BALLIA	ANTI-HUMAN TRAFFICKING UNIT	6	2	1	1	3	1
47	BALRAMPUR	ANTI-HUMAN TRAFFICKING UNIT	3	4	1	1	3	1
48	BARABANKI	ANTI-HUMAN TRAFFICKING UNIT	2	3	1	1	6	1
49	BAREILLY	ANTI-HUMAN TRAFFICKING UNIT	4	2	1	1	1	1
50	BASTI	ANTI-HUMAN TRAFFICKING UNIT	3	12	1	1	3	1

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
51	BIJNOR	ANTI-HUMAN TRAFFICKING UNIT	4	5	1	1	3	1
52	FIROZABAD	ANTI-HUMAN TRAFFICKING UNIT	2	4	1	1	4	1
53	GAUTAM BUDH NAGAR	ANTI-HUMAN TRAFFICKING UNIT	4	2	1	1	2	1
54	GHAZIABAD	ANTI-HUMAN TRAFFICKING UNIT	1	4	1	1	3	1
55	GORAKHPUR	ANTI-HUMAN TRAFFICKING UNIT	1	6	1	1	4	1
56	HARDOI	ANTI-HUMAN TRAFFICKING UNIT	5	9	1	1	6	2
57	JAUNPUR	ANTI-HUMAN TRAFFICKING UNIT	4	5	1	1	3	1
58	JHANSI	ANTI-HUMAN TRAFFICKING UNIT	3	8	1	1	2	1
59	KANPUR CITY	ANTI-HUMAN TRAFFICKING UNIT	4	5	1	1	2	1
60	KUSHI NAGAR	ANTI-HUMAN TRAFFICKING UNIT	4	3	1	1	4	1
61	LUCKNOW	ANTI-HUMAN TRAFFICKING UNIT	0	3	1	0	1	1
62	MAHRAJGANJ	ANTI-HUMAN TRAFFICKING UNIT	6	6	2	1	3	1
63	MAU	ANTI-HUMAN TRAFFICKING UNIT	7	4	1	1	2	1
64	MEERUT	ANTI-HUMAN TRAFFICKING UNIT	3	7	1	1	4	1
65	MORADABAD	ANTI-HUMAN TRAFFICKING UNIT	2	5	NA	NA	NA	NA
66	MUZAFFAR NAGAR	ANTI-HUMAN TRAFFICKING UNIT	6	5	1	1	6	2
67	PILIBHIT	ANTI-HUMAN TRAFFICKING UNIT	5	6	1	1	4	1
68	PRAYAGRAJ	ANTI-HUMAN TRAFFICKING UNIT	2	3	1	1	1	1
69	SHAHJAHANPUR	ANTI-HUMAN TRAFFICKING UNIT	5	5	1	1	3	1
70	SHRAVASTI	ANTI-HUMAN TRAFFICKING UNIT	4	9	1	1	2	1
71	SIDDHARTH NAGAR	ANTI-HUMAN TRAFFICKING UNIT	2	15	1	4	14	2
72	SITAPUR	ANTI-HUMAN TRAFFICKING UNIT	7	3	1	1	1	1
73	UNNAO	ANTI-HUMAN TRAFFICKING UNIT	5	4	1	1	2	1
74	VARANASI	ANTI-HUMAN TRAFFICKING UNIT	3	9	2	1		
75	KHERI	ANTI-HUMAN TRAFFICKING UNIT	5	9	2	0	1 Hall	1
76	AGRA	ANTI POWER THEFT THANA		2*	1	1		1
77	AMBEDKAR NAGAR	ANTI POWER THEFT THANA	10	6	1	1	6	1

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
78	ALIGARH	ANTI POWER THEFT THANA		2*				
79	AMETHI	ANTI POWER THEFT THANA		2*				
80	AURAIYA	ANTI POWER THEFT THANA	10	5	1	1	7	1
81	AYODHYA	ANTI POWER THEFT THANA		2*				
82	AZAMGARH	ANTI POWER THEFT THANA		2*				
83	BADAUN	ANTI POWER THEFT THANA	2	4	1	1	2	1
84	BAGHPAT	ANTI POWER THEFT THANA	2	3	1	1	3	1
85	BAHRAICH	ANTI POWER THEFT THANA		2*				
86	BALLIA	ANTI POWER THEFT THANA		2*				
87	BALRAMPUR	ANTI POWER THEFT THANA		2*				
88	BARABANKI	ANTI POWER THEFT THANA	6	3	1	1	5	1
89	BAREILLY	ANTI POWER THEFT THANA		2*				
90	BASTI	ANTI POWER THEFT THANA		2*				
91	BHADOHI	ANTI POWER THEFT THANA	9	5	2	1	4	1
92	BIJNOR	ANTI POWER THEFT THANA	4	5	1	1	4	1
93	BANDA	ANTI POWER THEFT THANA		2*				
94	CHANDAULI	ANTI POWER THEFT THANA	0	9	1	1	2	1
95	CHITRAKOOT	ANTI POWER THEFT THANA		2*				
96	DEORIA	ANTI POWER THEFT THANA	4	6	1	1	3	1
97	ETAH	ANTI POWER THEFT THANA	2	7	2	2	3	1
98	ETAWAH	ANTI POWER THEFT THANA	6	7	1	1	5	1
99	FATEHGARH	ANTI POWER THEFT THANA	2	3	1	0	2	1
100	FATEHPUR	ANTI POWER THEFT THANA	4	9	1	1	6	1
101	FIROZABAD	ANTI POWER THEFT THANA	0	22	1	2	9	1
102	GHAZIABAD	ANTI POWER THEFT THANA		2*				
103	GHAZIPUR	ANTI POWER THEFT THANA		2*				
104	GONDA	ANTI POWER THEFT THANA	0	5	1	1	3	1

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
105	GORAKHPUR	ANTI POWER THEFT THANA		2*				
106	HAMIRPUR	ANTI POWER THEFT THANA		2*				
107	HAPUR	ANTI POWER THEFT THANA	3	2*	1	1	6	1
108	BULANDSHAHAR	ANTI POWER THEFT THANA	20	11	2	1	5	1
109	JALAUN	ANTI POWER THEFT THANA	4	5	1	1	5	1
110	JAUNPUR	ANTI POWER THEFT THANA	4	12	1	2	3	1
111	JYOTIBAPHULLEYNAGAR	ANTI POWER THEFT THANA		2*				
112	KANNAUJ	ANTI POWER THEFT THANA		2*				
113	KANPUR DEHAT	ANTI POWER THEFT THANA		2*				
114	KASGANJ	ANTI POWER THEFT THANA	2	3	1	1	4	1
115	KAUSHAMBI	ANTI POWER THEFT THANA	22	10	1	1	4	1
116	KUSHI NAGAR	ANTI POWER THEFT THANA	8	4	1	1	3	1
117	LALITPUR	ANTI POWER THEFT THANA	4	3	1	1	1	1
118	LUCKNOW	ANTI POWER THEFT THANA		17				
119	MAHRAJGANJ	ANTI POWER THEFT THANA		2*				
120	MAINPURI	ANTI POWER THEFT THANA	1	10	1	1	7	1
121	MATHURA	ANTI POWER THEFT THANA		17				
122	MAU	ANTI POWER THEFT THANA	5	3	1	1	3	1
123	MEERUT	ANTI POWER THEFT THANA		2*				
124	MIRZAPUR	ANTI POWER THEFT THANA	0	5	1	1	2	1
125	MORADABAD	ANTI POWER THEFT THANA	1	4	1	1	3	1
126	MUZAFFAR NAGAR	ANTI POWER THEFT THANA		2*				
127	PILIBHIT	ANTI POWER THEFT THANA	3	9	1	1	4	1
128	PRAYAGRAJ	ANTI POWER THEFT THANA		2*				
129	RAE BARELI	ANTI POWER THEFT THANA		2*				
130	RAMPUR	ANTI POWER THEFT THANA	18	6	2	1	8	1
131	SAMBHAL	ANTI POWER THEFT THANA		2*				

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
132	SANT KABEER NAGAR	ANTI POWER THEFT THANA	3	11	1	1	6	1
133	GAUTAM BUDH NAGAR	ANTI POWER THEFT THANA		2*				
134	SHRAVASTI	ANTI POWER THEFT THANA		2*				
135	SITAPUR	ANTI POWER THEFT THANA		2*				
136	SONBHADRA	ANTI POWER THEFT THANA		2*				
137	SULTANPUR	ANTI POWER THEFT THANA		2*				
138	UNNAO	ANTI POWER THEFT THANA		2*				
139	VARANASI	ANTI POWER THEFT THANA		2*				
140	SHAHJAHANPUR	ANTI POWER THEFT THANA		2*				
141	SIDDHARTH NAGAR	ANTI POWER THEFT THANA	4	10	1	2	2	1
142	SHAMLI	ANTI POWER THEFT THANA		2*				
143	HARDOI	ANTI POWER THEFT THANA	6	5	1	1	3	1
144	HATHRAS	ANTI POWER THEFT THANA	1	7	1	1	3	1
145	KANPUR CITY	ANTI POWER THEFT THANA		2*				
146	KHERI	ANTI POWER THEFT THANA		2*				
147	МАНОВА	ANTI POWER THEFT THANA		2*				
148	PRATAPGARGH	ANTI POWER THEFT THANA	2	2	1	1	1	1
149	JHANSI	ANTI POWER THEFT THANA	3	15	2	1	4	1
150	SAHARANPUR	ANTI POWER THEFT THANA		2*				
151	LUCKNOW	ATS Thana, Gomti Nagar	0	14				
152	AGRA	CYBER CRIME P.S		5*				
153	ALIGARH	CYBER CRIME P.S	4	11	1	2	5	1
154	AYODHYA	CYBER CRIME P.S		5*				
155	AZAMGARH	CYBER CRIME P.S	12	10	1	1	8	1
156	BANDA	CYBER CRIME P.S	5	8	1	1	5	1
157	BAREILLY	CYBER CRIME P.S	4	4	1	0	2	1
158	BASTI	CYBER CRIME P.S	4	10	1	1	3	1

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
159	GONDA	CYBER CRIME P.S	0	4	1	2	4	2
160	GORAKHPUR	CYBER CRIME P.S	5	14	2	1	7	1
161	JHANSI	CYBER CRIME P.S	3	15	1	1	3	1
162	KANPUR CITY	CYBER CRIME P.S		5*				
163	MIRZAPUR	CYBER CRIME P.S	2	5	1	1	3	1
164	MORADABAD	CYBER CRIME P.S	2	6	2	1	5	1
165	PRAYAGRAJ	CYBER CRIME P.S		5*				
166	SAHARANPUR	CYBER CRIME P.S	4	3	1	1	3	1
167	VARANASI	CYBER CRIME P.S		5*				
168	GAUTAM BUDH NAGAR	CYBER CRIME P.S		5*				
169	LUCKNOW	CYBER CRIME P.S		5*				
170	MEERUT	EOW	10	8	1	1	3	5
171	LUCKNOW	EOW	0	2	1	1	3	1
172	VARANASI	EOW	4	10	1	1	3	1
173	KANPUR	EOW		5*				
174	AGRA	GRP AGRA CANTT	1	6	1	1	14	1
175	AGRA	GRP AGRA FORT	1	9	1	1	7	1
176	ALIGARH	GRP ALIGARH JUNCTION	0	7	2	1	4	1
177	AMBEDKAR NAGAR	GRP AKBARPUR	0	9	1	1	4	1
178	AYODHYA	GRP FAIZABAD	1	7	1	1	4	1
179	BAREILLY	GRP BAREILLY CITY	5	11	1	1	3	1
180	BAREILLY	GRP BAREILLY JUNCTION	1	7	1	1	3	1
181	CHITRAKOOT	GRP MANIKPUR		6*				
182	DEORIA	GRP BHATNI		6*				
183	DEORIA	GRP DEORIA		6*				
184	FATEHGARH	GRP FARRUKHABAD	4	5	2	1	8	1
185	FATEHPUR	GRP FATEHPUR	4	11	1	1	9	1

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
186	FIROZABAD	GRP FIROZABAD	4	12	1	0	8	1
187	FIROZABAD	GRP TUNDLA JUNCTION	8	11	2	1	2	1
188	GHAZIABAD	GRP GHAZIABAD	2	7	1	1	9	1
189	GHAZIPUR	GRP GHAZIPUR		6*	1			
190	GORAKHPUR	GRP GORAKHPUR	2	12	1	1	10	1
191	JHANSI	GRP JHANSI	2	2	0	1	1	1
192	KANPUR CITY	GRP KANPUR	0	6	1	1	7	1
193	KASGANJ	GRP KASGANJ	2	4	1	1	12	1
194	MATHURA	GRP MATHURA JUNCTION	3	6	1	2	8	1
195	LALITPUR	GRP LALITPUR		3	1	1	5	1
196	LUCKNOW	GRP CHARBAGH LUCKNOW	0	12	1	1	7	1
197	МАНОВА	GRP MAHOBA	5	4	1	1	5	1
198	MAHRAJGANJ	GRP ANAND NAGAR		6*				
199	MAINPURI	GRP MAINPURI	6	5	1	1	6	1
200	MEERUT	GRP MEERUT CITY	1	13	1	1	1	1
201	MIRZAPUR	GRP MIRZAPUR	4	12	1	4	3	1
202	MORADABAD	GRP BADAUT	6	4	1	1	3	1
203	MORADABAD	GRP CHANDAUSI	2	6	1	1	3	1
204	MORADABAD	GRP MORADABAD	1	12	1	1	10	1
205	MUZAFFAR NAGAR	GRP MUZAFFAR NAGAR	2	3	1	0	2	1
206	MUZAFFAR NAGAR	GRP SHAMLI	5	8	1	1	2	1
207	PILIBHIT	GRP PILIBHIT	2	9	1	1	3	1
208	PRATAPGARH	GRP PRATAPGARH	2	7	1	1	6	1
209	PRAYAGRAJ	GRP ALLAHABAD	0	2	1	1	9	1
210	RAE BARELI	GRP RAEBAREILLI	3	4	1	1	4	1
211	RAMPUR	GRP RAMPUR	0	8	1	1	1	1
212	SAHARANPUR	GRP SAHARANPUR	0	6	1	1	6	1

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
213	SHAHJAHANPUR	GRP SHAHJAHANPUR	0	8	1	1	5	1
214	SITAPUR	GRP SITAPUR	0	4	1	1	4	1
215	SULTANPUR	GRP SULTANPUR	8	7	1	1	6	1
216	UNNAO	GRP UNNAO	2	12	1	1	7	1
217	VARANASI	GRP VARANASI CANTT.	0	10	1	1	6	1
218	ETAH	GRP ETAH	4	4	1	1	4	1
219	HATHRAS	GRP HATHRAS CITY	4	6	1	0	6	1
220	BADAUN	GRP BADAUN	5	4	1	1	2	1
221	BIJNOR	GRP NAJIBABAD	6	10	1	1	3	1
222	BASTI	GRP BASTI		6*				
223	BAHRAICH	GRP BAHRAICH		6*				
224	GONDA	GRP GONDA	0	9	1	1	8	1
225	KANPUR CITY	GRP KANPUR (Bheemsen)	3	10	1	1	4	1
226	ETAWAH	GRP ETAWAH	6	6	1	1	4	1
227	JALAUN	GRP ORAI	2	8	2	1	6	1
228	HARDOI	GRP HARDOI	1	9	1	0	7	2
229	KHERI	GRP LAKHIMPUR KHIRI	2	8	1	0	7	1
230	BARABANKI	GRP BARABANKI	2	9	1	1	7	1
231	BULANDSHAHAR	GRP BULANDSHAHAR	4	6	1	2	8	1
232	BANDA	GRP BANDA	2	5	1	1	2	1
233	JAUNPUR	GRP JAUNPUR	2	8	1	1	4	1
234	CHANDAULI	GRP MUGHALSARAI	0	6	2	0	5	1
235	AZAMGARH	GRP AZAMGARH		6*				
236	BALLIA	GRP BALLIYA		6*				
237	MAU	GRP MAU	10	2	2	1		
238	CHITRAKOOT	GRP KARVI	4	5	1	1	12	4
239	LUCKNOW	SIT THANA		5*				

S. No	Districts/Units	Police Station Name	Power Cut in Hours	Proposed Camera by PS	Entry Point	Passage/Corridor	Rooms	Number of Building
240	AGRA	VIGILANCE ESTT.	0	6	1	0	6	1
241	AYODHYA	VIGILANCE ESTT.	8	3	1	1	5	1
242	BAREILLY	VIGILANCE ESTT.	4	3	1	1	9	1
243	GORAKHPUR	VIGILANCE ESTT.	4	5	2	1	9	1
244	JHANSI	VIGILANCE ESTT.	0	2	1	0	9	1
245	KANPUR CITY	VIGILANCE ESTT.	0	6	1	1	12	2
246	LUCKNOW	VIGILANCE ESTT.	1	5	1	1	10	2
247	MEERUT	VIGILANCE ESTT.	2	4				
248	PRAYAGRAJ	VIGILANCE ESTT.	0	3	1	1	4	2
249	VARANASI	VIGILANCE ESTT.	0	3	1	1	3	1

*Camera count as discussed by Department

20 ANNEXURE C- Sample survey reports of Police Stations across Uttar Pradesh

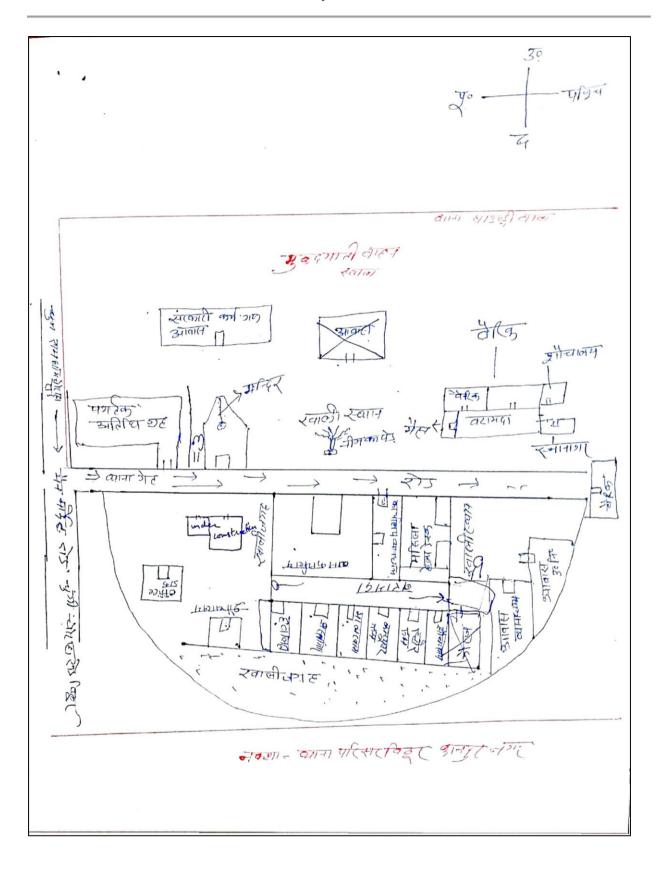
20.1 Police Station Name-Bithoor, Kanpur district

		Survey Form	for CCTV System at Police Stations in Uttar Prac	lesh (Checklist)
		उत्तर प्रदेश के	पुलिस स्टेशनॉ पर सीसीटीवी क्रियान्वयन के लिए सर्वक्षण	प्रपत्र (चेकलिस्ट)
101		District of Police Station: Kanp	u	
		Visit Date: 5/3/2021		•
2		Names of Team visited Police Station (EY		
		& Police Department team member) SHO Name and contact details	It Kuman Mishra (9454-	(03718)
		Name of SP/SSP/CP of District/PS	tender singh	
•				
	S.No.	Parameter परामीटर	Details विवरण	र Remark टिप्पणी।
	1	General information सामान्य जानकारी		
	1	Name of Police Station? पुलिस स्टेशन	Bithoon	
		का नाम? GPS Location of Police Station?		
	2	पुलिस स्टेशन का जीपीएस लोकेशन?		
0	3	Name of District? जिले का नाम? Area layout of the Police Station?	Kanpur	
	4	पुलिस स्टेशन का एरिया लेआउट?	Avaliable only ground	
		How many floors available in the	asher ason of	
	5	Police Station? पुलिस स्टेशन में कितनी मंजिलें उपलब्ध हैं?	any france	
		Floor Layout of Police Station? पुलिस	Araliable	
	6	स्टेशन का फ्लोर लेआउट? How many rooms available in the		
	7	Police Station? पुलिस स्टेशन में कितने	9 + 2 (under construe	an
		कमरे उपलब्ध हैं? How many passage/corridor in Police		
	8	Station? पुलिस स्टेशन में कितने मार्ग /	1 long passage	
		गलियारे हैं?	1 long passage on entry	
		Provide description of each room (for	provided	
	9	which purpose it is used) प्रत्येक कमरे	provident	
		का विवरण प्रदान करें (किस प्रयोजन के लिए इसका उपयोग किया जाता है)		2
			2 official	
	10	How many buildings available in the Police Station campus? पुलिस स्टेशन	a unofficial	- 8
	10	परिसर में कितने भवन उपलब्ध हूँ?	3 official 2 unofficial 2 uncestain setup only 1	•
		How many points of entry are there to the building/Campus of Police		
	11	Station? पुलिस स्टेशन के भवन /	only I	
		परिसर में प्रवेश / निकास के कितने बिंदु		
		8 7		
340	*)		đ. 15	•
1		\$		
			×	

	A site layout including floor layout need to be prepared and submitted by respective Police Station. प्रलोर	avaliable	\$
12	लेआउट सहित एक साइट लेआउट को तैयार करने और सम्बन्धित पुलिस स्टेशन द्वारा प्रस्तुत करने की		
	आवश्यकता है।		
	for CCTV monitoring and equipment? , If yes, provide details. क्या सीसीटीवी	CCINS room	
13	निगरानी और उपकरणों के लिए कोई समर्पित कमरा उपलब्ध है? यदि हों, तो विवरण प्रदान करें।	c ;	
	विवरण प्रदान करा Power and Maintenance बिजली और रखरखाव		
14	How frequent power cut occurs and what is the duration of power outage? बिजली कटौती कितनी बार होती है और बिजली आउटेज की अवधि क्या है?	3-4 hrs	1
15	What are the available power backup system available at Police Station? Such as DG Set, UPS, Solar, etc. पुलिस स्टेशन पर उपलब्ध पावर बैकअप सिस्टम क्या हैं? जैसे डीजी सेट, यूपीएस, सोलर आदि।	inverter DG	
16	How many hours power backup is available In UP Police Station पुलिस स्टेशन में कितने घंटे का पावर बैकअप उपलब्ध है	· 3-4 hrs (only when or computer is running)	
	Connectivity कनेक्टिविटी		·
17	क्शावा मा मालासर connectivity is available for remote monitoring? क्या रिमोट कनेक्टिविटी के लिए इंटरनेट कनेक्टिविटी उपलब्ध है?	No	
18	What is the available bandwidth? उपलब्ध बॅंडविड्य क्या है?	N/A	
19	Which type of connectivity available? (Leased line/MPLS/ Broadband Connection, etc.) किस प्रकार की कनेक्टिविटी उपलब्ध है? (लीज्ड लाइन / एमपौएलएस / ब्रॉडबॅंड कनेक्शन, आदि)	rS/A	
	Location for Camera's		
20 21	Entry point of PS Exit Point of PS	only one	
22	Lock-up room Men	avallable (1)	· · · · · · · · · · · · · · · · · · ·
23	Lock-up room Women	used as store	
24 25	Lobby Reception Area	T-shaped	
26	Verandas ···	outside open area	
27	Outhouses	No	
28 29	Inspector's room Sub-Inspector's room		undulahelpdest as of now

DPR:	ссти	based	monitoring	for	Police	Stations.	Uttar	Pradesh	
		buscu	monitoring		1 Onec	Stations,	ortai	i i uucon	

Possage 30 Areas outside the lock-up room 31 Station Hall porsage In front of the Police station compund 32 possage Outside (not inside) washrooms/toilets may in new when construction buildry parak (closed import) Uncertain men which was earlier campled 33 Duty Officers's room 34 Back part of the Police Station 35 other Open area's attach to Police by pit. reepte. 36 station Any other Location to be covered which is attached to Police station 37 * Layout is minron image. New noom (underconstruction) not marked × some coomis not as per layout × mea just beside main gate is not police compand but is used by Police as barak. (it is wide 2 rast × area and care 2 bus are parked ahead)

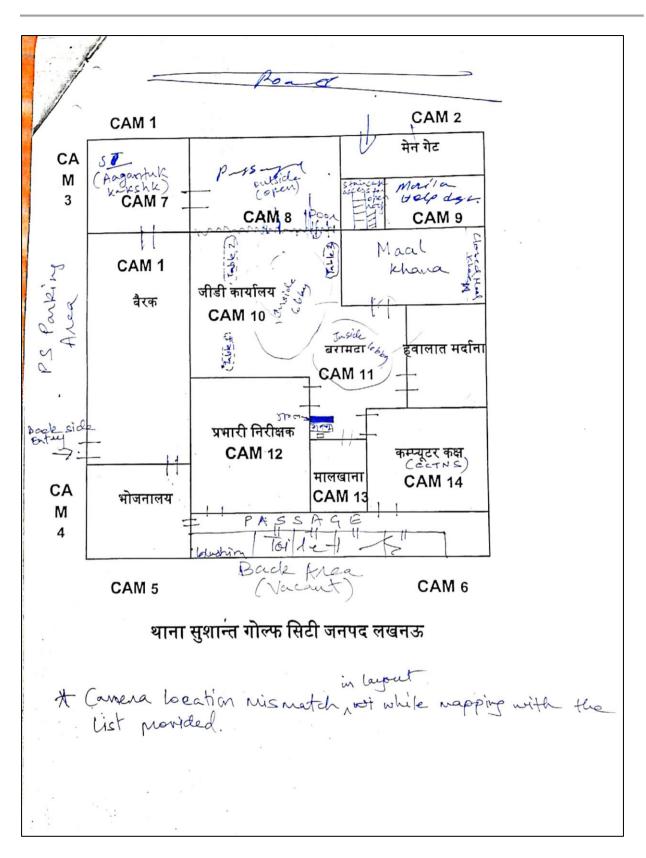


20.2 Police Station Name – Sushant Golf City, Lucknow district

		or CCTV System at Police Stations in Uttar Prade लिस स्टेशनों पर सीसीटीवी क्रियान्वयन के लिए सर्वेक्षण प्र					
	District of Police Station: Luclevon						
	Visit Date: 158 March 20						
	Names of Team visited Police Station (EY & Police Department team member)						
	SHO Name and contact details Vijy	endra Singh (9454458330)					
	Name of SP/SSP/CF of District/PS	we kant Thaken (1PS)					
S.No.	Parameter पैरामीटर	Details विवरण	Remark टिप्पणी				
1	General Information सामान्य जानकारी						
1	Name of Police Station? पुलिस स्टेशन का नाम?	Sushant Colf City					
2	GPS Location of Police Station? पुलिस स्टेशन का जीपीएस लोकेशन?						
3	S Name of District? जिले का नाम?	Lucknow South					
4	Area layout of the Police Station? पुलिस स्टेशन का एरिया लेआउट?	Avaliable					
5	How many floors available in the Police Station? पुलिस स्टेशन में कितनी मंजिलें उपलब्ध हैं?	Only Ground					
6	Floor Layout of Police Station? पुलिस स्टेशन का फ्लोर लेआउट?	Avaliable					
7	How many rooms available in the Police Station? पुलिस स्टेशन में कितने कमरे उपलब्ध हैं?	g					
8	How many passage/corridor in Police Station? पुलिस स्टेशन में कितने मार्ग / गलियारे हैं?	3 (2 funt, 1 backside)				
9	Provide description of each room (for which purpose it is used) प्रत्येक कमरे का विवरण प्रदान करें (किस प्रयोजन के लिए इसका उपयोग किया जाता है)	Description not available for all rooms	Description not avaliable for all				
10	How many buildings available in the Police Station campus? पुलिस स्टेशन परिसर में कितने भवन उपलब्ध हैं?	1.					
11	How many points of entry are there to the building/Campus of Police Station? पुलिस स्टेशन के भवन / परिसर में प्रवेश / निकास के कितने बिंदु हैं?	1 pont, 1 back.					

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андастася запания в собъеми в собъ	10	Connection, etc.) किस प्रकार की		
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20 Entry point of PS Regulard (provit, back.) 21 Exit Point of PS Regulard (provit, back.) 22 Lock-up room Men Regulard (provit, back.) 23 Lock-up room Women Not available 24 Lobby Required (him entrance pasage.) 25 Reception Area Refuired 26 Verandas Not Available 27 Outhouses Not available. (1 balale available.) 28 Inspector's room Protectors Pachagi, Ninge chart. Non		एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि)		
20 Entry point of PS Regulard (provit, back) 21 Exit Point of PS Regulard (provit, back) 22 Lock-up room Men Regulard (provit, back) 23 Lock-up room Women Not available 24 Lobby Required (him entrance pasage) 25 Reception Area Refuired (Non entrance pasage) 26 Verandas Not Available 27 Outhouses Not available (1 balable available) 28 Inspector's room		Location for Camera's		
22 Lock-up room Men Required 1 23 Lock-up room Women Not available 24 Lobby Required (Main entrance porsage) 25 Reception Area Refuired 26 Verandas Not Available 27 Outhouses Not available 28 Inspectors room		Entry point of PS		
23 Lock-up room Women Not available 24 Lobby Required (Main entrance persuge) 25 Reception Area Refuted 26 Verandas Not Available 27 Outhouses Not available (1 balable) 28 Inspectors room Not Arabitable (1 balable)				clkj
24 Lobby Required (Nain entrance horsage) 25 Reception Area Refuired 26 Verandas Not Avaliable 27 Outhouses Not avaliable (1 balale avaliable) 28 Inspectors room Not Avaliable Nink shall nome			Not avaliable	
25 Reception Area Required Control Required Control Regulation Area Control Regulatio Area Control Regulation Area Control Regulation Area Control Reg			Required (Main entrance	horsupp)
27 Outhouses Not avaliable (1. balale avaliable) 28 Inspector's room - Not Arra Prabhasi Ninge challe room)	25		Required	
28 Inspector's room - Dettara Prabhasi Ninge diale room)				
47 ISUB-IDSDECIOLS (DOM)	28	Sub-Inspector's room	Agantuk Room	eshall room

30	Areas outside the lock-up room Station Hall	Avaliable (required)-inside	lobby
		some as signfuld coom	0
32	In front of the Police station compund	To cover the area immedited	5
33	Outside (not inside) washrooms/toilets	Passage to be covered	
34	Duty Officers's room	Not Avaliable	
35	Back part of the Police Station	Vacant area	
36	other Open area's attach to Police station	None PS Parley Area	
37	Any other Location to be covered which is attached to Police station	Front Road outside PS	Passage in fourt front of tellets not indicated
	* Cornera 1 * Staincase * Terrace or is not ind * Entry/Gxit indicated	cc7v is installed at is indicated for Barake mea not indicated in 1st ft floor is open dicated in byout point except main e in byout.	layout 2 has access; and gate were not



20.3 Police Station name – Ajgain, Unnao district

. /	Survey Form for CCTV System at Police Stations in Uttar Pradesh (Checklist) उत्तर प्रदेश के पुलिस स्टेशनों पर सीसीटीवी क्रियान्वयन के लिए सर्वेक्षण प्रपत्र (चेकलिस्ट)						
	District of Police Station: UNNAO						
	Visit Date : 4/3/2021						
	Names of Team visited Police Station (EY & Police Department team member)						
	SHO Name and contact details Sam	tosh Kuman (94544043:	50)				
	Name of SP/SSP/CP of District/PS	and kulpaine					
S.No.	Parameter पैरामीटर	Details विवरण	Remark टिप्पणी				
1	General Information सामान्य जानकारी						
1	Name of Police Station? पुलिस स्टेशन का नाम?	Ajgain					
2	GPS Location of Police Station? पुतिस स्टेशन का जीपीएस लोकेशन?						
3	Name of District? जिले का नाम?	Unnao					
4	Area layout of the Police Station? पुलिस स्टेशन का एरिया लेआउट?	Avaliable					
5	How many floors available in the Police Station? पुलिस स्टेशन में	Avaliable only group					
6	कितनी मंजिलें उपलब्ध हैं? Floor Layout of Police Station? पुलिस स्टेशन का फ्लोर लेआउट?	Avaliable					
7	How many rooms available in the Police Station? पुलिस स्टेशन में कितने कमरे उपलब्ध हॅ?	12					
8	How many passage/corridor in Police Station? पुलिस स्टेशन में कितने मार्ग / गलियारे हॅं?	1 inside 3 outside					
9	Provide description of each room (for which purpose it is used) प्रत्येक कमरे का विवरण प्रदान करें (किस प्रयोजन के लिए इसका उपयोग किया जाता है)	Description provided					
10	How many buildings available in the Police Station campus? पुलिस स्टेशन परिसर में कितने भवन उपलब्ध हैं?	1 main building 1 SHO building					
11	How many points of entry are there to the building/Campus of Police Station? पुलिस स्टेशन के भवन /	2 entry/exit					
	परिसर में प्रवेश / निकास के कितने बिंदु हैं?						

· `			
	A site layout including floor layout		1
	need to be prepared and submitted by respective Police Station. फ्लोर	traliable	
12	लेआउट सहित एक साइट लेआउट को		
12	तैयार करने और सम्बन्धित पुलिस		
	स्टेशन द्वारा प्रस्तृत करने की		
	3		
	आवश्यकता है। 13 साराट तापु प्रत्यादवारप 100m वर्षतात्रकार		
	for CCTV monitoring and equipment?		
	lf yes, provide details. क्या सीसीटीवी	CCTNS Room	
13	निगरानी और उपकरणों के लिए कोई	CCTIOS FOOM	
	समर्पित कमरा उपलब्ध है? यदि हाँ, तो		
	विवरण प्रदान करें।		
	Power and Maintenance बिजली और		
	रखरखाव		
	How frequent power cut occurs and	almost every day	
14	what is the duration of power outage? बिजली कटौती कितनी बार होती है और	tor 10-12 hrs	
14		Tur 10-12 hrs	
	बिजली आउटेज की अवधि क्या है?		
	What are the available power backup		
	system available at Police Station?	DC avaliable	
	Such as DG Set, UPS, Solar, etc.	DG avaliable Solar inverter	
15	पुलिस स्टेशन पर उपलब्ध पावर बैकअप	solar inverter	
	सिस्टम क्या हैं? जैसे डीजी सेट, यूपीएस,		
	सोलर आदि।		
	How many hours power backup is		
	available in UP Police Station पुलिस	DG - diesel not available	2
16	र स्टेशन में कितने घंटे का पावर बैकअप	Solar - 2-3hrs	
	उपलब्ध है		
	Connectivity कनेक्टिविटी		
	vonemer internet connectivity is	only passingly	
17	available for remote monitoring? क्या	Only personal use	
17	रिमोट कनेक्टिविटी के लिए इंटरनेट		
	कनेक्टिविटी उपलब्ध है?		
18	What is the available bandwidth?	N/A	
10	उपलब्ध बैंडविड्थ क्या है?	\sim / / $^{\prime}$	
	Which type of connectivity available?	N/ 0-	
	(Leased line/MPLS/ Broadband	NA	
	Connection, etc.) किस प्रकार की		
			I I
19	कनेक्टिविटी उपलब्ध है? (लीज्ड लाइन /		
19	कनेक्टिविटी उपलब्ध है? (लीज्ड लाइन /		
19	कनेक्टिविटी उपलब्ध है? (लीज्ड लाइन / एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि)		
19	एमपीएलएस / ब्रॉडबेंड कनेक्शन, आदि)		
20	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS	2. entry/exit	
20 21	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS Exit Point of PS		
20 21 22	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS Exit Point of PS Lock-up room Men	avaliable_	
20 21 22 23 24	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS Exit Point of PS	avaliable used as store now	
20 21 22 23 24 25	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS Exit Point of PS Lock-up room Men Lock-up room Women Lobby Reception Area	avaliable_ used as store now puilding reception area (2 to	
20 21 22 23 24 25 26	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS Exit Point of PS Lock-up room Men Lock-up room Women Lobby Reception Area Verandas	avaliable used as store now building reception area (2 to In front of main building (ca	ples) - parteing + mandin
20 21 22 23 24 25	एमपीएलएस / ब्रॉडबैंड कनेक्शन, आदि) Location for Camera's Entry point of PS Exit Point of PS Lock-up room Men Lock-up room Women Lobby Reception Area	avaliable_ used as store now puilding reception area (2 to	

• . 4 wommon possage 30 Areas outside the lock-up room Station Hall 31 can pairking + mandin In front of the Police station compund 32 - common passage Outside (not inside) washrooms/toilets SHO (seperate) + TAKK H 33 anti 34 Duty Officers's room Back part of the Police Station other Open area's attach to Police bibe scrap parting 35 across road messt barak 36 station Any other Location to be covered which is attached to Police station [1 37 * Mess is across the road * Computer room had toilet which is converted into store

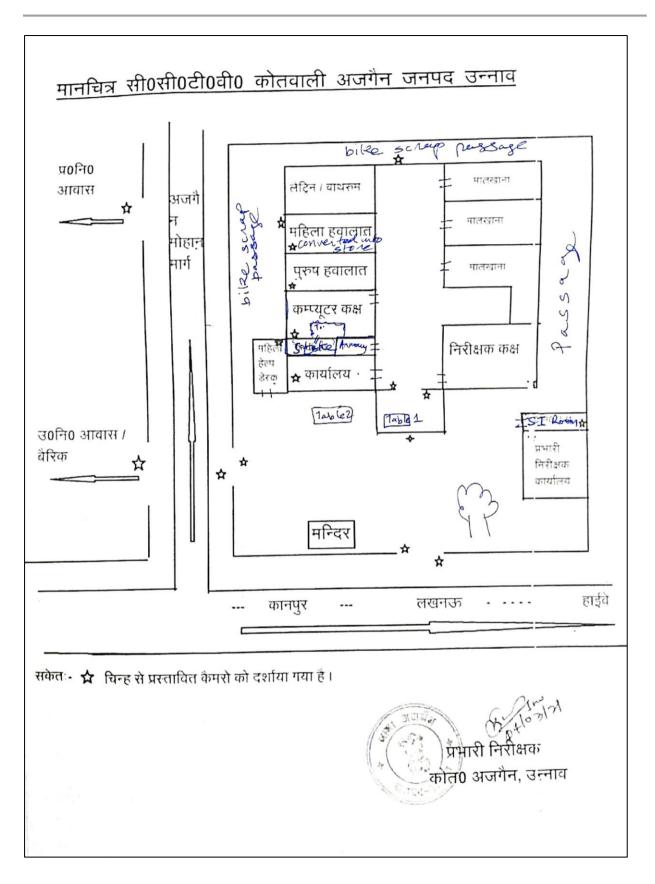


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1. Annexure 1: Technical Specification of Hardware and Software

Annexure 1.1 - Technical Specification and Compliance of 2MP IP Bullet Camera

Sr. No.	Nature of Requirement	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3	Image sensor	1/2.8" progressive scan CMOS		
4	Total Pixels	1,920(H) x 1080(V)/ effective min 2 MP in any format		
5	Min. illumination	Color: 0.07 lux, at 50 IRE F1.6 or better B/W: 0.03 lux, at 50 IRE F1.6 , 0.0 lux @ IR ON		
6	Electronic Shutter	1/25 to 1/15000		
7	Day/ Night	ICR switch, auto, colour, B/W, EXT		
8	Lens	2.8 mm - 12 mm / 3.5 mm - 10 mm lens / 3 mm - 9 mm		
9	IR Distance	30-50Mtr		
10	S/N ratio	≥50db (AGC OFF)		
11	Output	PAL/NTSC adjustable		
12	WDR	120 dB		
13	3D N/R	Auto /Manual (High, Higher, Medium, Lower, Low)		
14	Defog	Off/Low/Middle/High/Intelligent Defog automatically adjusts parameters for best picture in foggy or misty scenes (switchable)		
15	Corridor Mode	2 Modes		
16	Slow Shutter	Off/ON		
17	Gain Control	High, Higher, Medium, Lower, Low		
18	Focus Control	Manual		
19	Image setting	Brightness, Contrast, Saturation, Sharpness, Hue		
		Audio/Video Encoding		
20	Video Compression	H.265+/H.265/MJPEG		
21	H.265+ Encoding	Main Profile		
22	Max Resolution	1920*1080		

Sr.	Nature of	Minimum Specifications	Compliance (Yes/No)	Deviations
23	Frame Rate	Mainstream 1920*1080@1-25fps; Sub Stream 704*576@1-25fps, Third Stream 1280*720@1-15FPS		
24	Video bit rate	Constant bit rate, variable bit rate (32kbps-16Mbps)		
25	Audio compression	G.711A, G.711Mu (G.711µ)/G.726(ADPCM)		
26	Audio control	Support input/output volume control		
27	Audio Noise Reduction	ON/OFF		
28	Audio Detection	Support		
29	EIS	Support		
30	Event linkage	Snapshot, SD card video, FTP upload, Email, alarm output linkage		
		Network		
31	Network Storage	NAS (Support FTP), FTP		
32	Alarm Trigger	Motion detection, tampering alarm, network disconnect, storage exception		
33	Protocols	IPv4, IPv6, TCP/IP, ICMP, ARP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, RTMP, UDP, TSL, SSL, SRTP		
34	Streaming	Unicast and Multicast		
35	System Compatibility	ONVIF (Profile S), ONVIF (profile G)		
36	Max User Access	15		
		Interfaces		
37	Ethernet	1 RJ45 10M/100M Ethernet port		
38	Analog video output	1CH 1.0Vp-p complex video output		
39	Audio	1 Audio Input; 1 Audio Output		
40	Audio	Support Two-Way Audio		
41	Alarm	1 Alarm input; 1 Alarm output		
42	SD card	Support Max 128G, Micro SD (SDHC /SDXC) card local storage		
		GENERAL		
43	Operating	0 °C ~ 60 °C Humidity 95% or less (non-condensing)		

Sr.	Nature of Requirement	Minimum Specifications	Compliance (Yes/No)	Deviations
	Conditions			
44	Ingress protection	IP67 Complaint,		
45	Vandalism protection	IK10		
46	Power Supply	DC 12V ± 10%, PoE (802.3af, class 3)		
47	Power Consumption	Max 12W		
48	Product	Safety: CE, FCC, BIS Registered		
49	Certification	Immunity: FCC		

Annexure 1.2 - Technical Specification and Compliance of 2MP IP Dome Camera

Sr. No	Nature of Requirement	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3	Image sensor	1/2.8" progressive scan CMOS		
4	Total Pixels	1920*1080		
5	Min. illumination	Color: 0.07 lux, at 50 IRE F1.6 B/W: 0.03 lux, at 50 IRE F1.6 ,0.0 lux @ IR ON		
6	Electronic Shutter	1/25 to 1/15000		
7	Day/ Night	ICR switch, auto, colour, B/W, EXT		
8	Lens	2.8 mm - 12 mm / 3.5 mm - 10 mm lens/ 3 mm - 9 mm		
9	IR Distance	30-50Mtr		
10	S/N ratio	≥50db (AGC OFF)		
11	Output	PAL/NTSC adjustable		
12	WDR	120 dB		
13	3D N/R	Auto /Manual (High, Higher, Medium, Lower, Low)		
14	Defog	Off/Low/Middle/High		

Sr.	Nature of Requirement	Minimum Specifications	Compliance	Deviations
15	Corridor Mode	Yes		
16	Slow Shutter	Off/ON		
17	Gain Control	High, Higher, Medium, Lower, Low		
18	Focus Control	Auto/Manual		
19	Image setting	Brightness, Contrast, Saturation, Sharpness, Hue		
		Audio/Video Encoding		
20	Video compressio n	H.265+/H.265/MJPEG		
21	Frame Rate	Main Stream 1920*1080@1-25fps; Sub Stream 704*576@1-25fps, Third Stream 1280*720@1-15FPS		
22	Video bit rate	Constant bit rate, variable bit rate (32kbps-16Mbps)		
23	Audio compressio n	G.711A, G.711Mu(G.711µ)/G.726(ADPCM)		
24	Audio bit rate	8-64Kbps		
25	Audio control	Support input/output volume control		
26	Audio Noise Reduction	ON/OFF		
27	Audio Gain Control	ON/OFF		
		Overlay		
28	Channel Title	ON/OFF		
29	Date & Time	ON/OFF		
30	Audio Detection	Support		
31	Event linkage	Snapshot, SD card video, FTP upload, Email, alarm output linkage		
		Network		
32	Network Storage	NAS (Support FTP), FTP		
33	Alarm Trigger	Motion detection, tampering alarm, network disconnect, storage exception		
34	Protocols	IPv4,IPv6,TCP/IP, ICMP, ARP,HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, RTMP, UDP,TSL,SSL,SRTP		
35	Streaming	Unicast and Multicast		

Sr.	Nature of Requirement	Minimum Specifications	Compliance (Yes/No)	Deviations
36	System Compatibility	ONVIF (Profile S),ONVIF(profile G)		
37	Max User Access	15		
		Interfaces		
38	Ethernet	1 RJ45 10M/100M Ethernet port		
39	Analog video outp ut	1CH 1.0Vp-p complex video output		
40	Audia	1 Audio Input; 1 Audio Output		
41	Audio	Support Two-Way Audio		
42	Alarm	1 Alarm input; 1 Alarm output		
43	SD card	Support Max 128G, Micro SD (SDHC /SDXC) card local-storage		
		General		
44	Operating Conditions	0°C ~ 60 °C Humidity 95% or less (non-condensing)		
45	Ingress protection	IP67/66 Complaint,		
46	Vandalism protection	IK10		
47	Power Supply	DC 12V ± 10%, PoE (802.3af, class 3)		
48	Power Consumption	Max 12W		
49	Product	Safety: CE, FCC, BIS Registered		
50	Certification	Immunity: FCC		

Annexure 1.3 - Technical Specification and Compliance of NVR

Sr.	Nature of	Minimum Specifications	Compliance	Deviations	
-----	-----------	------------------------	------------	------------	--

No.	Requirement		(Yes/No)	(If Any)
1	Make			
2	Model			
3		It should support number of cameras as per site requirements: - min 8 - min 16 - min 24		
4		It must continuously record up to 800 Mbps (Windows)		
5	General	1200 Mbps (Linux) of video for high concentration of high definition IP cameras		
6		Local client display rate:		
7		Windows OS: up to 700 frames per second		
8		Linux OS: up to 900 frames per second		
9		It should support streaming live/recorded video up to 500 simultaneous PC clients		
10		Two-way audio feature		
11	Processor	Gen 4 Intel® Xeon E3		
12	Minimum capability	It must work on Windows / Linux platform with 2x1 Gbps NIC and 16 GB of RAM		
13	Display	It must support DVI-I, HDMI, 1 display ports, max 2 simultaneous monitors		
14		NVR should support minimum 240 TB of storage with RAID 6		
15	Storage	NVR should be supply with the following usable space (as per site requirements) from day one. - 50 TB - 100 TB - 125 TB - 150 TB		
16 17	Communication	NVR shall have 2 Gigabit 1000Base-T RJ-45 NIC card NVR shall have RS-485 serial port capabilities to communicate with serial devices		

Sr.	Nature of Requirement	Minimum Specifications	Compliance (Yes/No)	Deviations
18	Certification	Requirement is of critical nature and hence offered camera must be of global standards and hence should be CE, FCC certified.		
19	Power Supply	NVR shall have Dual Hot Swap redundant power supplies		
20	Operating Temperature	Operating Temperature 40° - 95°F (4.5° - 35°C)		
21	Operating System	Pre-loaded Operating System must be on Windows/Linux platform		

Annexure 1.4 - Technical Specification and Compliance of 24 Port L2 Switch

S.No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	Make and Model		
	Hardware Specification		
1	The Switch shall have 24 No(s) Giga Base-T Ports and 4 nos. 1/10-Gigabit SFP+		
2	The Switch shall have 1x DB-9 Female / RJ-45 console port for Management/ CLI Port		
3	The Switch shall have 1x 10/100Mbps RJ-45 out-band management port		
4	The Switch shall have Dual redundant power supply		
5	Operation Temperature: 0° to 40° C		
6	Storage Temperature: 0° to 50° C		
	Performance		
7	The Switch shall support at least 8 hardware queues		
8	The Switch shall support at least 128 Gbps or better Switch fabric speed		
9	The Switch shall support adequate Packet buffer of 4 MB (Egress/Ingress)		

S.No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
10	The Switch shall support minimum 9 KB Jumbo Frame (Bytes)		
11	The Switch shall support minimum 32K MAC address table		
12	The Switch shall support minimum 12K IP Address table		
13	The Switch shall support minimum IPv4 static Routing entries to meet the solution requirements and SLAs		
14	The Switch shall support minimum 4K IPv6 static Routing Entries to meet the solution requirements and SLAs		
	Interface		
15	The Switch shall support minimum Up to 4K static/dynamic VLANs		
16	The Switch shall have IPv4 Interface		
17	The Switch shall have IPv6 Interface		
	L2 Services – MAC		
18	The Switch shall support Static MAC forwarding, MAC filter		
	L2 Services VLANs		
19	The Switch shall support IP subnet Based VLANs		
20	The Switch shall support Guest VLAN, Private VLAN, MAC-based VLAN		
21	The Switch shall support IEEE 802.1x Guest VLAN, MAC-based VLAN, Unauthenticated VLAN		
22	The Switch shall support Dynamic VLAN, GARP with GVRP/GMRP OR equivalent.		
23	The Switch shall support Double VLAN Tagging (QinQ)		
	L2 Services – Availability		
24	The Switch shall support IEEE 802.3ad - LAGs, 16 groups/8 interfaces per group		

S.No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
25	The Switch shall support LACP, Static LAGs, IEEE 802.3x (Full Duplex and flow control), Per port Flow Control, IEEE 802.1D STP, IEEE 802.1w RSTP		
26	The Switch shall support IEEE 802.1s MSTP		
27	The Switch shall support BPDU Control, BPDU Guard and Loop Guard Support		
28	The Switch shall support Spanning Tree Root Guard		
	L2 Services – Multicast		
29	The Switch shall support the following L2 multicast protocols: IGMPv2 Snooping, IGMPv3 Snooping, MLDv1 Snooping, L2 Multicast Filtering / ACL/Filters, IGMP Snooping, IGMP snooping		
	L3 Services – Multicast		
30	The Switch shall support L3 multicast protocols		
	L3 Services – DHCP		
31	The Switch shall support IPv4, IPv6 DHCP Client		
32	The Switch shall support IPV4, IPv6 DHCP Server		
33	The Switch shall support DHCP Relay		
	L3 Services - IPv4 Routing		
34	The Switch shall support following IPV4 routing protocols: 802.3ad (LAG) for router ports, Policy Based Route, VRRP, Multipath - ECMP, L3 Loopback Interface, RIP (v1 & v2), OSPFv2		
	L3 Services - IPv6 Routing		
35	Multipath – ECMP		
36	Neighbour Discover		
	Network Monitoring and Discovery Services		

S.No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
37	The Switch shall support following IPV4 monitoring protocols: 802.1ab/ LLDP-MED, SNMP (v1, v2c, v3), RMON (1,2,3,9), sFlow/NetFlow		
	Security		
38	The Switch shall support following IPV4 security protocols: Broadcast, Multicast, Storm Control, DoS (Control), BPDU filtering, ARP filtering, Static IP/MAC binding, Dynamic IP/MAC binding, Dynamic to Static, DHCP Snooping IPv4/IPv6, ARP Inspection		
	ΑΑΑ		
39	The Switch shall support following authentication protocols: RADIUS - port-based, RADIUS - MAC based, TACACS+, Authorization, RADIUS, TACACS+, Accounting, RADIUS, TACACS+,		
40	Support Policy rule based on Permit, Drop, egress port, mirror, next hop, 1p mark DSCP remark / ACL		
	Quality of Service (QoS)		
41	IEEE 802.1p, trust/untrust mode		
42	Queue Method, WRR, WFQ, SPQ or equivalent		
43	Queue Mapping 1p DSCP,1p Queue, DSCP Queue		
	Management		
44	The Switch shall support Configurable Management VLAN		
45	The Switch shall support Physical Stacking up to 4 switches, stacking bandwidth minimum 80 Gbps		
46	The Switch shall support HTTP, SSL/TLS, Telnet, SSH, FTP, TFTP		
47	The Switch shall support Dual Software (firmware) image		
48	The Switch shall support Dual Configuration file		

S.No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
49	The Switch shall support Port descriptions		
50	The Switch shall support NTP/SNTP client		
51	The Switch shall support Port Mirroring based on Session, Tx/Rx/Both, M-to-1, Remote		
52	The Switch shall support Syslog (RFC 3164)		
53	The Switch shall support DNS Client		
54	The Switch shall support Privilege: Local, Remote, Level, configurable Exec		
	Certification		
55	The Switch shall have following Compliances & Certifications: EN 61000 3 2 Power Line Harmonics EN 61000 3 3 Voltage Fluctuations and Flicker EN 61000 4 2 for EN 61000 4 3 for RS: Radiated susceptibility EN 61000 4 4 for EFT: Electrical Fast Transient EN 61000 4 5 for Surge EN 61000 4 6 for CS: Conducted susceptibility EN 61000 4 8 for PFMF: Power frequency magnetic field) EN 61000-4-11 Voltage Dips and Sags		

Annexure 1.5 - Technical Specification and Compliance of 8 port PoE Switch

S.No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	Make and Model			
1	Туре	Managed Outdoor industrial grade		

S.No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
2	Total Ports	Minimum 8*10/100/1000-Base-TX PoE/PoE+ 4 x SFP Ports		
3	PoE Standard	IEEE 802.3af / IEEE 802.3at or better with minimum 150 Watts of PoE budget		
4	Protocols	 Support 802.1Q VLAN DHCP support IGMP, MLD snooping SNMP Management Should support Loop protection and Loop detection Should support Ring Protection End point authentication Should support NTP 		
5	Access Control	 Support port security Support 802.1x (port-based network access control) Support for MAC filtering' 		
6	PoE Power per port	a) Should support PoE scheduling, Auto checking.b) Switch should supply uninterrupted power to the connected device even when the POE switch is booting		
7	Operating Temperature	-40 to 75° C or better		
8	Industrial Certifications	NEMA-TS2, IP30 rating, UL, IEC60068-2- 27, IEC60068-2-6		
9	Switch should support lower power consumption	Less than 24W on no PoE load		

Annexure 1.6 - Technical Specification and Compliance of Recording Server

Sr. No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Specifications Form Factor/Height	1U rack server		
2	Processors	One Intel Xeon E-2278G 8C 80W 3.4GHz Processor .		

Sr. No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
3	Memory	Should be offered with 32 GB memory, should support 4 DIMM slots (two memory channels with two DIMMs per channel). Support for ECC UDIMMs. Memory speed up to 2666 MHz. Capacity: Xeon E Series: Up to 128 GB (4x 32 GB UDIMMs). Core i3, Pentium Gold, Celeron G Series: Up to 64 GB (4x 16 GB UDIMMs).		
4	Expansion Slots	Up to two PCIe expansion slots (depending on the riser cards selected)		
5	Drive Bays	8 SFF (2.5-inch) SAS/SATA hot-swap drive bays. Should support NVmE drives, should be offered with 2 x 600GB 10K RPM drives.		
6	HBA/RAID Support	12 Gbps SAS/6 Gbps SATA RAID: should support NVMe PCIe non-RAID: 1610-4P NVMe Switch Adapter.		
7	Security and Availability Features	Power-on password, administrator's password, secure firmware updates, Trusted Platform Module (TPM) 1.2 or 2.0 (configurable UEFI setting). Lockable front bezel.		
8	Network Interface	2x Onboard 10/100/1000 Mb Ethernet RJ-45 ports. 2 x16G FC ports		
9	Power	Two redundant hot-swap 450 W Platinum AC power supplies.		
10	Systems Management	Remote GUI management tool to Gather and viewing system information and inventory, monitor system status and health, alert notification, update system firmware, real time server power usage monitoring, capture video display content when Operating system is in hand condition. Can be integrated as single GUI for management of other devices of same OEM as storage, switches etc.		
11	Security	Power-on password, administrator's password, secure firmware updates, Trusted Platform Module (TPM) 1.2 or 2.0 (configurable UEFI setting).Lockable front bezel		

Sr. No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
12	Global Compliance	FCC Title 47 CFR Part 15 Subpart B UL62368-1 BIS IEC60950-1, IEC62368-1 (CB Certificate and CB Test Report) CE Mark (EN55032 Class A, EN60950-1, EN55024, EN50581, EN61000-3-2, EN61000-3-3, EN62368-1) CISPR 32, Class A Reduction of Hazardous Substances (ROHS)		

Annexure 1.7 - Technical Specification and Compliance of Management Server

S.No	Features	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Specifications Form Factor/Height	1U rack server		
2	Processors	2xIntel Xeon ntel Xeon Gold 5218 16C 125W 2.3GHz Processor, should support processors up to 125W		

S.No	Features	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
3	Memory	Should support 24 x DIMM slots, , should be configured with 4 x 16GB DDR4, 2933MHz memory		
4	Expansion Slots	Up to 4x PCIe 3.0		
5	Drive Bays	Should support upto 10 x SFF hot swap bays. Should be supplied with 2 x 600 GB 10K RPM HDD. should support up to 2x M.2 boot drives (RAID 1)		
6	HBA/RAID Support	HW RAID (up to 8 drives with 2GB flash cache), should support RAID0,1,5,6		
7	Security and Availability Features	Availability Features, TPM 1.2/2.0; PFA; hot-swap/redundant drives, fans, and PSUs; 45°C continuous operation; light path diagnostic LEDs; front- access diagnostics via dedicated USB port		
8	Network Interface	Should be configured with 2 x 1G, 2 x16G FC & 2 x 10G BaseT .		
9	Power (Energy Star 2.0 compliant)	2x hot swap redundant 80 PLUS Platinum;		
10	Systems Management	Remote GUI management tool to Gather and viewing system information and inventory, monitor system status and health, alert notification, update system firmware, real time server power usage monitoring, capture video display content when Operating system is in hand condition. Can be integrated as single GUI for management of other devices of same OEM as storage, switches etc.		
11	Regulatory compliance	FCC, UL/CSA, VCCI, CCC, IEC, CE RoHS, Energy star 2.1		

Annexure 1.8 - Technical Specification and Compliance of SAN Storage

S.No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Storage Quality Certification	The Storage OEM should be in the Gartner Leader Quadrant in any of last three years		
2	Storage Controller	The Storage Solution should be based on multiple controllers with Data Assurance in active-active mode configured in a NSPOF and End-to-End Data Protection.		
3	Cache required	The system should have minimum 16 GB cache memory across the two controllers with an ability to protect data on cache if there is a controller failure or power outage. The cache on the storage should have 72hrs or more battery backup (OR) should have destining capability to either flash/disk. The system should also offer extended cache based on SSD.		
4	Drive Support	The system must support intermixing of SSD, SAS and NL-SAS/SATA drives to meet the capacity and performance requirements of the applications.		
5	Protocols	The storage should be configured with FCP & iSCSI protocols. Any hardware/software required for this functionality shall be supplied along with it in No Single Point of Failure mode. System should also support SAS, protocol & connectivity.		
6	RAID configuration	Should support various RAID levels 0, 10, 5, 6		
7	Storage Capacity	The storage should have the following usable capacity as per site requirements in NLSAS drives to be configured in RAID6 and scalable upto 350 TB within same storage in similar configuration and disk capacity: - 50 TB - 125 TB - 150 TB		

S.No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
8	Drive Support	The system must support intermixing of SSD, SAS and NL-SAS dual ported drives to meet the capacity and performance requirements of the applications. The system must support a minimum of a 140 disks per two controllers for scalability purpose and must use every drive, up the supported count of drives per pool, spreading out all volumes across all drives and also decrease the drive rebuild time.		
9	Front-End and Backend connectivity	The proposed storage system should have minimum 4 numbers of 12Gbs or higher backend SAS ports. Should support 10 GbE ISCSI.		
10	Rack Mountable	The storage should be supplied with rack mount kit. All the necessary patch cords (Ethernet and Fibre) shall be provided and installed by the vendor.		
11	Storage functionality and Availability	The storage shall have the ability to expand LUNS/Volumes on the storage online and instantly. The storage shall have the ability to create logical volumes without physical capacity being available or in other words system should allow over- provisioning of the capacity. The license required for the same shall be supplied for the maximum supported capacity of the offered storage model. The proposed storage system should be configured to provide data protection against two simultaneous drive failures. The required number hard disks for parity & spares, should be provided exclusively of the usable capacity mentioned after consider RAID and Filesystem overhead. At least 2% of the usable capacity requested on each tier should be configured as spare drives with the subsequent disk types Storage system should support RAID level distributing data across multiple Disk to ensure faster rebuild time. Storage system should allow changing of cache block size non-disruptively for defined RAID group levels to meet various kind of workload. Storage shall have capability to integrate with Object Storage for taking image or file-based backup.		

S.No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
		System should have redundant hot swappable components like controllers, disks, power supplies, fans etc.		
		The Storage System should support T10-PI standard to detects and corrects data integrity issues received from the recording server or due to hardware failures on the drives.		
		System should support asynchronous replication.		
		System Management software should have capability to monitor performance for IOPs, MB/s, latency and should be able to drill down to the capabilities of monitoring controllers, disk pools, volumes, drives. System GUI manager should be able to manage multiple arrays together. Should support Role-based access control and audit log, support for Multi- factor Authentication		
		Storage system should support SSD cache.		
		Storage should have Energy star rated Platinum power supplies.		
		The proposed system should support 99.999% reliability.		
12	Point-in-times	The storage should have the requisite licenses to create point-in-time snapshots. The storage should support minimum 512 snapshots per system. The license proposed should be for the complete supported capacity of the system.		
	images	Offered storage array shall have capability to take snapshot. Must use latest stable technology platform, with support available for next 7 years.		
		The system should support instant creation of clones of active data.		
13	Management	Easy to use GUI based administration interface for configuration, storage management and performance analysis tools. The proposed storage should provide Proactive monitoring of the health of the system and configurable automated delivery of replacement drives when failures occur.		

S.No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
14	OS support	Support for industry-leading Operating System platforms including: LINUX, Microsoft Windows, HP-UX, SUN Solaris, IBM-AIX, etc. It shall support connecting hosts over iSCSI or FC and shall be supplied with any Multipathing software, if required, with the solution.		

Annexure 1.9 - Technical Specification and Compliance of Workstation (21")

S.No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3	Processor	Intel 10th generation Core i3-10100 Processor		
4	Chipset	Intel Compatible Chipset		
5	Memory	8 GB DDR4 RAM expandable upto 64GB with 2 DIMM slots		
6	Harddisk Drive	1TB SATA (7200 Rpm) Hard Drive.		
7	Optical Drive	DVD+/-RW drive		
8	Graphics	Integrated Intel UHD Graphics		
9	Ethernet	Integrated 10/100/1000 Mbps ethernet controller;		
10	Slots	2 PCIe x1 slots, 1 PCIe x16 slot		
11	I/O ports	8 External USB: 4 x USB 3.2 and 4 x USB 2.0; 1 RJ-45; 1 VGA Port;1 HDMI Port; 1 DisplayPort		
12	Wireless	Wireless 802.11 b/g/n/ac with Bluetooth		
13	Audio Port	1 Universal Audio Jack, 1 Line-out, Internal Speaker		
14	Form Factor	Toolless Tower Chassis not more than 15 Its Volume, Mil Std 810G		
15	Power Supply	250W or Higher, 85% Efficient		
16	Monitor	21.5 inch or higher IPS LED Backlit monitor with FHD resolution, TCO Certified (same make as PC)		

S.No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
17	Keyboard	104Keys Multimedia USB Keyboard (same make as PC)		
18	Mouse	2 Button USB Optical Mouse (same make as PC)		
19	Operating System	Windows 10 64 Bit preloaded.		
20	Regulatory Certifications	FCC,UL, Energy Star, ROHS, Windows, Linux.		

Annexure 1.10 - Technical Specification and Compliance of UPS (30 min, 4 hours Backup)

S.No.	Deremetere	Minimum Specifications	Compliance	Deviations
5.INO.	Parameters	Minimum Specifications	(Yes/No)	(If Any)

	Make & Model		
4	UPS Rating /	0/0 k/ / A server site serve lities - LODT (Destifies & lawertes heth)	
1	Technology	2/3 KVA as per site condition - IGBT (Rectifier & Inverter both)	
2	Wave form	Pure Sine wave	
3	Technology	IGBT Based - True Online	
4	Input power factor correction	0.99	
5	Input configuration	1Ph, L-N+PE (160 to 280Vac on full load & shall support up-to 110Vac for 50% load)	
6	Output Power factor	0.8	
7	frequency (Input)	45-55 Hz	
8	frequency (output)	50 Hz +/- 0.1% (free Run Mode)	
9	Output Voltage	200/220/230/240 Vac shall be available with +/- 1% regulation.	
10	Harmonic	3% max full linear load, 5% max on Non- linear load	
11	Crest factor	3:1 or better	
12	AC-AC Efficiency	90% or better	
13	Transfer time Main- Battery	0 Sec	
14	Transfer time Inverter- Bypass	4 msec	
15	Output Connection	Terminal in the back side of UPS	
16	Communication	SNMP V1/V2	
17	Port	USB / RS 232	
18	Battery Type	SMF/ Lithium Battery	
19	Charger	The charger capacity shall be minimum 10% of the Battery Bank capacity.	
	Dettem / he show	As per site requirements:	
20	Battery backup	4 Hrs on full load @ 0.8 PF - Minimum VAH 8640 30 min on full load @ 0.8 PF - Minimum VAH 1872	
	Operating		
21	Operating Temperature Range	0-40 deg. C	

22	Indications Required	Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode and Fault Indicators.	
23	Fan Speed Control	Fan Speed Control as per load & room temp shall be possible.	
24	Humidity	0% to 95% non-condensing	
25	Noise Level	Less than 58 dBA @ one Meter	
26	Mounting	Tower type	
27	Cold Start	Shall be available	
28	Protection	IP20	
29	Safety & Performance	BIS	
30	Certificate	NABL approved Lab test report for supplied model to be provided	
31	Capability criteria	 OEM should have registered office in India from last 5 years (certificate of incorporation to be provided) OEM should have ISO 9001, ISO 14001 AND ISO 45001 Certification. (Copy of Certificate to be provided) Should have Service Centre in UP. GST certificate copy to be attached for proof. 	

Annexure 1.11 - Technical Specification and Compliance of Passive Components

S.No	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	All Copper & Fibre components should preferably be from the same OEM. OEM should submit ISO certificate for the manufacturing facilities related to all proposed products.		

S.No	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
2	All Passive Components should be RoHS (Restriction of Certain Hazardous Substances) compliant. Declaration for RoHS Compliance to be submitted.		
3	There should be 25-year extended performance warranty/Application Assurance for end- to-end channel.		
4	OEM should be present and registered in India from last 10 years and should have its own manufacturing unit in India (Documentary proof and incorporation certificate to be submitted)		
	CAT 6 U/UTP Outdoor Cable		
	Make and Model		
A.1	Cat 6 cable should be Double Jacket and suitable for outdoor installation		
A.2	Cable should be Anti Termite		
A.3	Cable outer Jacket should be PE and inner jacket should be LSZH		
A.4	Cable conductor should be 23AWG		
A.5	Operating Temperature -20° C to +70° C		
	Face Plate Single/Duplex		
	Make and Model		
B.1	Square plate, 86mmx86mm		
B.2	Write on labels in transparent plastic window – supplied with plate		
B.3	Material: ABS Plastic		
B.4	Face plate should have option to attach Hinged dust cover in different colours		
B.5	Face Plate dust cover should be replaceable without removing patch cord		
	Information Outlet Face Plate and Patch Panel Side		
	Make and Model		

S.No	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
C.1	Category 6, TIA/EIA 568.2-D		
C.2	information outlets Should accept cables from 22-24 AWG copper		
C.3	Should be PCB free and Tool less		
C.4	Material should be halogen-free and heavy-metal free in acc. with EU directives RoHS 2.		
C.5	Should support 950 mating cycles		
C.6	Jack should be optimised for 4PpoE (IEEE 802.3bt)		
C.7	Should support 10GBase-T applications in acc. with IEEE 802.3an up to 500 MHz and 55 m		
C.8	Panel side IO should have five different options for colour coding clips		
C.9	Should be Certified by independent labs like ETL/GHMT/3P/DNV-GL for compliance		
C.10	Should be certified by UL .		
	24 Port Jack Panel unloaded		
	Make and Model		
D.1	Should be 19" 1U straight Patch Panel, 24-port		
D.2	Should have integral cable management Metal shelf.		
D.3	Should accept Shielded as well as Unshielded jacks		
D.4	Should have rear cable management shelf metallic.		
D.5	Jack panel should have option to accept different colour snap in coding clips		
D.6	Jack panel should have zig zag jack placement.		
D.7	Panel should be UL listed		
	Mounting Cords Cat (0.5, 1, 1.5, 2, 3 and 5 meters)		

S.No	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	Make and Model		
E.1	Should be Compliant with Cat.6 requirements of ISO/IEC 11801, EN 50173, EN 50168 and TIA/EIA 568.2-D		
E.2	The Outer Jacket should be LSZH		
E.3	Should be terminated using IDC technology		
E.4	Patch cord should be optimised for 4PpoE (IEEE 802.3bt)		
E.5	Should be unshielded		
E.6	Patch cord should be terminated using insulation displacement connections		
E.7	Option for different coding clips should be available		
E.8	Same Patch cords should be able to accept locking arrangement in future		
E.9	Patch Cord Should be verified by ETL/3P/DNV-GL .(certificate to be enclosed with the bid)		
	UTP Field Termination Connector IP20 For field equipment		
	Make and Model		
F.1	Connection type: Toolless IDC Type		
F.2	Should not have metal shielding		
F.3	IP Class: IP 20 rated		
F.4	Should be UL Listed and DNV-GL/ETL /3P certified (certificate to be enclosed with the bid)		
F.5	Should have colour coded rings option		
F.6	Field Termination plug should be upgradeable to IP54 in case required as per site conditions		
F.7	Material Polycarbonate for plug and polyamide (housing)		
	UTP Patch Cord Lock		
	Make and Model		

S.No	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
G.1	Should Lock the patch cord in all RJ45 jacks and should be suitable for the compact back- plane design of switches.		
G.2	Material should be plastic: PC, halogen-free		
	LIU Unloaded for 24 Duplex LC Ports with Splice Tray		
	Make and Model		
H.1	Have sufficient slots to accommodate 24 Duplex LC Ports Single Mode		
H.2	Should have fibre management provision inside		
H.3	Should be rack mountable 1U		
H.4	Should have Splice holder for minimum 24 Fibre cores		
	Optical Fibre Pig tails single mode		
	Make and Model		
I.1	Connector type LC		
1.2	Fibre Type SM OS2		
1.3	Compact design (SFF). 1.25 mm ferrule technology		
1.4	Length 1meter/1.5 meter		
	Optical Fibre equipment cords (minimum 1, 2, 3 Meter)		
	Make and Model		
J.1	Patch Cord Should be LC – LC SM Duplex		
J.2	Patch Cord Should be Single Mode OS2		
J.3	Type of Connector LC-LC		
J.4	Jacket Material: LSZH		
J.5	Patch Cord should have valid type test approval from labs such as DNV GL Lab/ETL verified/GHMT Premium Verification Program		
J.6	Should have option for Visual coding, mechanical coding, and lock protection.		

	Adapter LC Duplex PC Single mode	
	Make and Model	
K.1	Should have Adapter body plus flange and integral quick-mounting clip and M2 thread,	
13.1	colour metallic, material X10CrNi18-8	
K.2	Protection class (IP-20 rated)	
K.3	Should have integral self-closing metal laser protection flaps	
K.4	Should have option for Visual coding, mechanical coding, and lock protection.	
K.5	Adaptor should be UL listed	
K.6	Adaptor should have semi-transparent plastic dust covers, allowing optical testing with	
N.0	test lasers without removing the covers.	
	Fibre Cable outdoor 6 Core SM	
	Make and Model	
L.1	Should be ISO/IEC 11801:2002; Uni-tube Armoured with ECCS tape of 0.150 mm	
L.2	Type: Single Mode OS2	
L.3	Cable Jacket material: 1.8 mm HDPE sheath	
L.4	Minimum Cores 6	
L.5	Cable overall diameter 8.5 ± 1.0 mm	
L.6	Tensile Strength 800N and crush resistance 2000N	

Annexure 1.12 - Technical Specification and Compliance of 42" screen

S. No.	Parameter	Minimum Specifications	Compliance (Yes / No)	Deviations (If Any)
	Make			
	Model			
1	Panel Size	42 inches or higher		
2	Panel Type	LED backlight		
3	Resolution	1920 x 1080 or higher		
4	Brightness	450 Cd/m2 (Typ.) or higher		
5	Color Depth	8bit, 16.7 Million colors		
6	Backlight Life Time	30000 Hours or higher		
7	Viewing Angle	178 degree (H/V)		
8	Active size (mm)	941.184 (H) ×529.416 (V)		
9	Speaker	$2 \times 2W 4\Omega$ or higher		
10	Input	HDMI x 1, VGA x 1, Analog audio x 1 or more		
11	Control	Ethernet RJ45 x 1 or more		
12	Terminals	WiFi x 1, USB2.0 x 2, Extension storage (Micro TF Card 32G (Max)) or		
		more		
13	Play mode	Horizontal, Split display, Vertical, Play List		
14	Multimedia	USB,LAN,WLAN		
	transmission			
15	Function	Smart volume, Watch dog, Timer		
16	Management software	C/S framework: ADPE/Ezposter, B/S framework: GTV Information		
		Distribution System		
17	CPU	RK3288 quad-core ARM Cortex A17(Max.1.8GHz) or higher		
18	GPU	quad-core ARMMail-764		
19	Memory	DDR3 2GB or more		
20	Storage	8G eMMC or more		
21	Operation System	Android 7.1 or higher		

22	Picture Extension formats	jpg, jpeg, bmp, png	
23	Audio Extension formats	mp3	
24	Video Extension formats	MPEG1, MPEG2, MPEG4, WMV, MKV, AVI, TS, flv	
25	Encoder	MPEG-1, MPEG-2, MPEG-4, H.264, AVC, VC-1, RM	
26	Installation mode	VESA 400x200 (Screw type M6×10mm)	
27	Product size (mm)	963.6(H) × 557.92(V) × 60.2(D)	
28	Weight (Gross)	19.6	
29	Screen hanging mode	Portrait, Landscape	
30	Accessories	Power cord x1, Remote control x 1, AAA battery x 2, Certificate×1, Warranty card x 1, Quick start x 1, Wi-Fi antenna x 1, Security and Environmental Protection × 1, Peg sockets x 4, M8×40 bolts x 4	

Annexure 1.13 - Technical Specification and Compliance of 32" screen

S. No.	Parameter	Minimum Specifications	Compliance (Yes / No)	Deviations (If Any)
	Make			
	Model			
1	Panel Size	32 inches or higher		
2	Panel Type	LED backlight		
3	Resolution	1920 x 1080 or higher		
4	Brightness	400 Cd/m2 (Typ.) or higher		
5	Color Depth	8bit, 16.7 Million colors		

6	Backlight Lifetime	30000 Hours or higher	
7	Viewing Angle	178 degree (H/V)	
8	Active size (mm)	698.4(H) ×392.85(V)	
9	Speaker	2×2W 4Ω or higher	
10	Input	HDMI x 1, VGA x 1, Analog audio x 1 or more	
11	Control	Ethernet RJ45 x 1 or more	
12	Terminals	WiFi x 1, USB2.0 x 2, Extension storage (Micro TF Card 32G (Max)) or more	
13	Play mode	Horizontal, Split display, Vertical, Play List	
14	Multimedia	USB ,LAN,WLAN	
	transmission		
15	Function	Smart volume, Watch dog, Timer	
16	Management software	C/S framework: ADPE/Ezposter, B/S framework: GTV Information	
		Distribution System	
17	CPU	RK3288 quad-core ARM Cortex A17(Max.1.8GHz) or higher	
18	GPU	quad-core ARMMail-764 or higher	
19	Memory	DDR3 2GB or more	
20	Storage	8G eMMC or more	
21	Operation System	Android 7.1 or higher	
22	Picture Extension	jpg, jpeg, bmp, png	
	formats		
23	Audio Extension	mp3	
	formats		
24	Video Extension	MPEG1, MPEG2, MPEG4, WMV, MKV, AVI, TS, flv	
0.5	formats		
25	Encoder	MPEG-1, MPEG-2, MPEG-4, H.264, AVC, VC-1, RM	
26	Installation mode	VESA 400x200 (Screw type M6×10mm)	
27	Product size (mm)	723.4(H) × 422.9(V) X 68 mm(D)	
28	Weight (Gross)	12.1	

29	Screen hanging mode	Portrait, Landscape	
30	Accessories	Power cord x1, Remote control x 1, AAA battery x 2, Certificate×1, Warranty card x 1, Quick start x 1, Wi-Fi antenna x 1, Security and Environmental Protection x 1, Peg sockets x 4, M8×40 bolts x 4	

Annexure 1.14 - Technical Specification and Compliance of 24U Rack

S.No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3	Basic Frame	Multi hollow extrusion Aluminium profile frame		
4	Construction	Modular Construction of the rack made of 4 vertical, 4 horizontal & 4 depth extruded aluminium alloy multi hollow profiles bolted and joined together with Links and Corner Block. 2/3 pairs of support channel to equate the load evenly		
5	Top & Bottom Cover	Bolted to Frame with Cable entry cut outs		
6	Front Door	Lockable 4mm thick Toughened Glass Door		
7	Rear Door	Lockable Steel Door with square ventilation		
8	Lock for doors	Cam Lock		
9	19" Mounting Angle	4 No Adjustable. 19" verticals with Punched 9.5mm Squarer Hole and Universal 12.7 mm-15.875 mm- 15.875 mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
10	Standard Finish	Epoxy polyester Powder coated 60-80 micron thickness		
11	Standard Colour	Combination of RAL 7035 & 7037 OR RAL 9005		
12	Standard Mounting	Caster wheels (2 with Brake & 2 without Brake)		
13	Static Load	Upto 1200 KG.		
14	Power Distribution Unit	Dual Power Distribution Unit - 06/16 Amp Indian-Standard - 06 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Length - Black Fine Tex Assembly - 01 NOS.		
15	Equipment cooling	Fan Mount provision on top cover - 04 NOS.		

S.No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations
16	Stationary Shelf	Monitor Tray - Ventilation - 495W - 700D - Pastel Fine Tex Assembly - 03 NOS.		
17	Mounting Hardware	Mounting Hardware Packet { Containing 1 Nos Each Of 3 } - 20 Set - 01 PKT.		
18	keyboard Tray	Key Board Tray - 19" Width - Rotatory - Pastel Fine Tex Assembly - 01 NOS.		
19	Corrosion Resistance	Salt spray test according to ISO 9227 (NSS test) and IEC EN 60068-2-11 (Ka test) for 168 hours: degree of Rusting Ri1 according to ISO 4628-3, propagation ≤1 mm according to ISO 4628-8.		
20	Rack Standards	IS 9606-1980, UL 2416, IEC EN 60529, IEC EN 62262, ISO 9001:2008, ISO14001: 2015		
21	Degree of Protection	IP 20 according to IEC 60529:2013, IK08 according to IEC EN 62262:2002		
22	Warranty	One year		
23	Size	Floor stand with single side panels		
24		24U - 600W x 1000D		

Annexure 1.15 - Technical Specification and Compliance of 15U Rack

S. No.	Parameters	Minimum Specifications	Compliance (Yes/ No)	Deviations (If Any)
1	Make			
2	Model			
3	Size	600W x 500D		
4	Form factor	15U		
5	Construction	Clear 'U' usable space, fan or extra cables should not occupy usable space		
6	Basic Frame	CRCA		

S. No.	Parameters	Minimum Specifications	Compliance (Yes/ No)	Deviations (If Any)
7	Assembly	Assembled / SKD		
8	Top & Bottom Cover	Integrated to both sides and Frame. Cable entry cut outs.		
9	Front Door	Lockable Toughened Glass Door		
10	Rear side	Wall Mounting brackets		
11	19" Mounting Angle	4 No Adjustable. 19" verticals with Punched 9.5mm Squarer Hole and Universal 12.7 mm-15.875 mm- 15.875 mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
12	Cantilever Tray	Cantilever Tray - 01U - 255D - Pastel Fine Tex Assembly - 02 NOS.		
13	Power Distribution Unit	Power Distribution Unit - 06 Amp Universal - 06 Socket - 16 Amp Switch with Indicator - 06 Amp Fuse - 06 Amp 3 Pin Plug with Power Cable 0.75 sq.mm 1.5 meter Length - Black Fine Tex Assembly - 01 NO.		
14	Cable manager	Metal Cable Manager - 01U - Plastic Cable Loop's Mountable - Black Fine Tex Assembly - 01 NO.		
15	Std. Equipment Mounting	9.5mm Sq. Slots and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern		
16	Static Load	Upto 70Kgs		
17	Standard Finish	Epoxy polyester Powder coated 60-80 micron thickness		
18	Colour	Combination of RAL 7035 & 7037 OR RAL 9005		
19	Equipment cooling	Fan Mount provision on top cover - 02 Nos.		
20	Rack Standards	IS 9606-1980, UL 2416, IEC EN 60529, IEC EN 62262, ISO 9001:2008, ISO14001: 2015		
21	Degree of Protection	IP 20 according to IEC 60529:2013, IK08 according to IEC EN 62262:2002		

Annexure 1.16 - Technical Specification and Compliance of 9U Rack

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3	Size	600W x 500D		
4	Form factor	9U		
5	Construction	Clear 'U' usable space, fan or extra cables should not occupy usable space		
6	Basic Frame	CRCA		
7	Assembly	Assembled / SKD		
8	Top & Bottom Cover	Integrated to both sides and Frame. Cable entry cut outs.		
9	Front Door	Lockable Toughened Glass Door		
10	Rear side	Wall Mounting brackets		
11	19" Mounting Angle	4 No Adjustable. 19" verticals with Punched 9.5mm Squarer Hole and Universal 12.7 mm-15.875 mm- 15.875 mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
12	Cantilever Tray	Cantilever Tray - 01U - 255D - Pastel Fine Tex Assembly - 02 NOS.		
13	Power Distribution Unit	Power Distribution Unit - 06 Amp Universal - 06 Socket - 16 Amp Switch with Indicator - 06 Amp Fuse - 06 Amp 3 Pin Plug with Power Cable 0.75 sq.mm 1.5 meter Length - Black Fine Tex Assembly - 01 NO.		
14	Cable manager	Metal Cable Manager - 01U - Plastic Cable Loop's Mountable - Black Fine Tex Assembly - 01 NO.		
15	Std. Equipment Mounting	9.5mm Sq. Slots and Universal 12.7mm-15.875mm-15.875mm alternating hole pattern		
16	Static Load	Upto 70Kgs		
17	Standard Finish	Epoxy polyester Powder coated 60-80 micron thickness		
18	Colour	Combination of RAL 7035 & 7037 OR RAL 9005		
19	Equipment	Fan Mount provision on top cover - 02 Nos.		

S.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations
	cooling			
20	Rack Standards	IS 9606-1980, UL 2416, IEC EN 60529, IEC EN 62262, ISO 9001:2008, ISO14001: 2015		
21	Degree of Protection	IP 20 according to IEC 60529:2013, IK08 according to IEC EN 62262:2002		

Annexure 1.17 – Technical Specification and Compliance of Air Conditioner (1 Ton)

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3	Star Rating	3 or better		
4	Conceity	Cooling/Heating (Rated)- 3283W		
5	Capacity	Min 520W~Max 3650W		
6	Energy Efficiency	ISEER Value - 3.73 Kwh		
7	Annual Power Consumption	BEE Label- 680.58 KWh (units)		
8	Air Circulation	In/Out - 425 CFM / 989 CFM		
9	Noise Level	Indoor 21 dB (A)		
10	Moisture removal	Air circulation Max - 0.9 l/hr		
11	Compressor	Type/Gas - Dual Rotary / R32		
12	Power Supply	Phase/Voltage/Frequency -1Ø/230V/50Hz		
13	Power Input	Cooling - 1110W		
14	Running Current	Cooling (Rated) - 6.1 A		
15	Temperature	Cooling (Min~Max) - 16 °C ~ 52 °C		

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	Range			
16		Dual Inverter Compressor		
17		Convertible 4-in-1		
18		2 way Air Swing		
19	Key Features	HD Filter		
20		50 FT Airthrow		
21		Cools at 52 ⁰ C		
22		Low gas detection		
23		Clean Filter		
24		Stabiliser Free Operation		
25		100% Copper Condenser		
26		Hi Grooved Copper,		
27		Monsoon Comfort/Fresh Dry		
28	Other	Self-Diagnosis		
29	Features	Auto Clean		
30		On/ Off Timer		
31		Sleep Mode		
32		Fan Speed Steps		
33		Auto Restart (Memory)		
34		On/Off Indicator		

Annexure 1.18 – Technical Specification and Compliance of Air Conditioner (1.5 Ton)

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
		Indoor Unit		
3	Airflow Rate	H/M/L- ft3/min- 600/530/459		

S. No	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Anv)
4	Sound			
	Pressure	H/M/L- dB(A)- 39/36/34		
5	Piping	Liquid- mm(inch)- Ø 6.35(1/4)		
6	Connection	Gas - mm (inch)- Ø 12.7 (1/2)		
7		Drain (O.D/I.D)- mm Ø32/25		
	-	Outdoor Unit		
8	Sound			
0	Pressure	50 dB(A)		
9	Heat			
	Exchanger	Black Fin		
10	Star Rating	3 or better		
11		Dual Inverter Compressor		
12		Convertible 4-in-1		
13		2 way Air Swing		
14	Key Features	HD Filter		
15		50 FT Airthrow		
16		Cools at 52 ⁰ C		
17		Low gas detection		
18		Clean Filter		
19		Stabiliser Free Operation		
20		100% Copper Condenser		
21		Hi Grooved Copper,		
22		Monsoon Comfort/Fresh Dry		
23	Other	Self-Diagnosis		
24	Features	Auto Clean		
25		On/ Off Timer		
26	-	Sleep Mode		
27		Fan Speed Steps		
28	1	Auto Restart (Memory)		
29		On/Off Indicator		

Annexure 1.19 – Technical Specification and Compliance of Network Management System (NMS)

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	Make			
2	Model			
3		The proposed NMS & Helpdesk solution should be an integrated, modular and scalable solution from single OEM (i.e. all EMS components from single OEM) to provide comprehensive Network fault management, performance management and business service management, IT service desk\ help desk \trouble ticketing system & SLA monitoring functionality.		
4		The system should be accessible via a Web based GUI console/portal from intranet as well as from internet.		
5	General Requirement	The proposed solution should be IPv6 ready including hardware & software.		
6	rtequirement	The Proposed OEM of NMS & Helpdesk Tool must be ISO 27034-1 & ISO 27001 certified to ensure security compliances.		
7		Proposed solution MUST have at least 3 deployments in Indian Government/ Public Sector, monitoring & managing 10,000+ devices (including IT assets - Network devices, etc.; Non-IT Assets - UPS, KVM, PDU, etc.; Surveillance system - Cameras, Sensors, etc. in each of such deployments. Customer names, solution details and OEM undertaking needs to be provided at the time of bidding.		
8	Notwork Foult	The Network Management function must monitor performance across heterogeneous networks from one end of the enterprise to the other.		
9	Network Fault Monitoring & Performance Management with Reporting	The solution should allow for discovery to be run on a continuous basis which tracks dynamic changes near real-time; in order to keep the topology always up to date. This discovery should run at a low overhead, incrementally discovering devices and interfaces.		
10		The proposed Network Fault Management console must also provide network asset inventory reports.		

S.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations
11		NMS OEM must be an industry standard, enterprise grade solution		
12		NMS should provide integrated fault, performance Monitoring & configuration change detection together in one tool.		
13		Hypervisor-based VNF infrastructure network management.		
14		NMS should support Industry-leading support for physical, virtual, and SDN-enabled devices like Cisco ACI, VMWare NSX, Viptela, Big Switch Networks, etc.		
15		NMS should support out of the box monitoring of at least 3000+ devices from at least 150+ vendors.		
16		Diagnostic Analytics providing change-Correlated Performance Views and should show the difference either in either a side-by-side, or line-by-line presentation.		
17		NMS should provide single UI for viewing Incident, Performance and configuration change detection details for Entire Network.		
18		The tool should automatically discover different type of heterogeneous devices (all SNMP supported devices i.e. Router, Switches, LAN Extender, Servers, Terminal Servers, Thin-Client and UPS etc.) and map the connectivity between them with granular visibility up to individual ports level. The tool shall be able to assign different icons/ symbols to different type of discovered elements. It should show live interface connections between discovered network devices.		
19		It should support various discovery protocols to perform automatic discovery of all L2, L3 Network devices across network and any further Network connectivity's planned in future.		
20		The tool shall be able to discover IPv4 only, IPv6 only as well as devices in dual-stack. In case of dual stack devices, the system shall be able to discover and show both IPv4 and IPv6 IP addresses.		
21		The tool shall be able to work on SNMP V-1, V-2c & V-3 based on the SNMP version supported by the device. It shall provide an option to discover and manage the devices/elements based on SNMP as well as ICMP.		

S.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations
22		The proposed Network Fault Management solution must support extensive discovery mechanisms and must easily discover new devices using mechanisms such as SNMP Trap based discovery. It must also allow for inclusion and exclusion list of IP address or devices from such discovery mechanisms.		
23		The system should be able to clearly identify configuration changes / inventory changes across multi-vendor network tool.		
24		It should be able to collect and collate information regarding relationship between IT elements and business service, clearly showing how infrastructure impacts business service levels.		
25		The solution should be user configurable for building additional reports.		
26		Solution should be able to collect Key performance measurements and statistics from all network domains and store it. This data is to be used for evaluation of performance of the end to end network infrastructure/ services.		
27	Reporting	The performance management system shall be able to collect and report data like: a. Packet delay and packet loss; b. User bandwidth usage rate; c. Network availability rate; d. CPU usage rate; e. Input/output traffic through physical ports; f. Input/output traffic through logical ports		
28		 The Performance Management shall have user defined set of reports like: a. Summary Reports for specific groups: Reports displaying per group of resources the group aggregations for a set of metrics (for example, per City, the maximum traffic or the total traffic). b. Summary Reports for specific Resources: Reports displaying for a set of resources the period aggregations for the same set of metrics (for example, per interface, the maximum traffic over the day). c. Detailed chart Reports: Reports displaying for one resource and the same set of metrics the values over the period (for example, the raw collected values for the day). d. Resource Threshold Violation Reports: Reports displaying the resources for which a threshold was violated 		

S.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations
29		Should able to support and handle large volume of incident, service requests, changes, etc and should able to integrate with third party IVR or CTI.		
30		ITSM OEM must be an industry standard, enterprise grade solution and shall be in the present in Leaders Quadrant of Forrester / Gartner / IDC report for ITSM for the last two years.		
31		The solution should have a Single Architecture and leverage a single application instance across ITIL processes, including unique data and workflows segregated by business unit, cost centre, and user role for Incident, Problem, Change, Release, Knowledge Management and CMDB.		
32	General	The solution should provide to browse through CMDB which should offer powerful search capabilities for configuration items and services, enabling to quickly find CIs as well as their relationships to other CIs.		
33	Requirement of IT Service/ Helpdesk	Should provide out-of-the-box categorization, as well as routing and escalation workflows that can be triggered based on criteria such as SLA, impact, urgency, CI, location or customer.		
34		Tool Analytics should be completely configurable in terms of source data and results, enabling Process Managers and other IT Users to proactively identify trends that can be used to drive action. Multiple instances shall be allowed to be configured in different ways in different modules for different outcomes - for example one should be able to identify trends in one set of data and subsequently develop linkages with other data, or Analytics can run on top of reporting results to provide further insights from unstructured data.		
35		The tool should allow the user to take a screenshot of the error message and sends it to the service desk. The user can type in a couple of text lines to describe the error in simple language. The service desk agent then can pick up the ticket with the information already filled in (category, impact, and assignment).		

S.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations
36		The tool should have the knowledge management OOB – knowledge databases to support investigations, diagnoses, root cause analysis techniques, and creating / updating workarounds, temporary fixes and resolutions.		
37		The tool should allow the creation of different access levels (i.e. Read only, write, create, delete) to knowledge management system.		
38		The tool should allow creation and enforced use of data input rules for creating knowledge records For example: mandatory fields for content and information; QA and change approval to move from draft to production.		
39		The Knowledge Management solution should be available in a Multi Tenanted environment.		
40		Solution should support comprehensive SLA management platform		
41		Must allow creating and applying various operational level parameters to Incidents, Requests, Changes, and Release management modules.		
42		The application should have a predefined/customizable field to indicate & track the progress/status of the lifecycle of ticket(s).		
43		The tool should provide an audit trail, tracking & monitoring for record information and updates from opening through fulfilment to closure For example: IDs of individuals or groups opening, updating & closing records; dates / times of status & activities updates, etc.		
44	Service Level Management	SI's must proposed a full fledges Service Level Management Solution that allows for tracking of various service level performances of IT Infrastructure and vendor performance.		
45		The solution should support SLA violations alerts during the tracking period.		
46		The solution should support managing and maintaining a full history of an SLA.		
47		The solution must provide a flexible framework for collecting and managing service level templates including Service Definition, Service Level Metrics, Penalties and other performance indicators measured across infrastructure and vendors		

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	General Specifications & Architecture	Chassis shall fit into a standard sized 19 inch rack mounting		
2		Router should have redundant DC power feeds: -48VDC nominal.		
3		Router should be temperature hardened as it is placed at field locations		
4		The router shall provide a non-blocked switching matrix upto system capacity.		
5		Switching and packet routing (L2 and L3) shall be wire speed on all interfaces. Performance shall not be decreased at maximum traffic load.		
6		The router shall Support 4x10G, 8x1GE(optical),8x1GE(electrical) Interfaces and 16xE1s. All the optical interfaces shall be equipped with suitable optics to work on two single mode fibres upto 40km.		
7		The router shall support following Timing ports– TOD in, TOD out, SYNC/BITS interface.		
8		The router should have external Alarm Option.		
9		Must have out-of-band Management port.		
10		Must have console port.		
11	Protocols Supported	Router should support unicast IPv4/IPv6 routing protocols (BGP,OSPF).		
12		Router shall support aggregation of links.		
13		Router shall support IPV4 and IPV6, IGMP, MLD, and PIM-SM &SSM, ECMP.		
14		Router shall support BFD with interval of 10ms or less.		
15		The router shall support Internet Group Management Protocol(IGMP) v1, v2 and v3.		
16		The router shall support Protocol Independent Multicast – PIM-SM and		

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
		SSM.		
17		IEEE 1588v2 Precision Timing Protocol (PTP) and Synchronous Ethernet support for network synchronization.		
18	Quality of Service	The switch/router shall provide per-service, per-forwarding class queuing and shaping features.		
19		The router shall provide following QoS features: classification and hierarchical scheduling, WRR, strict priority (SP), profiled scheduling and multi-tier policing and shaping.		
20		IP Application Mapping. The list of IP match criteria should include Source IP address and mask, Destination IP address and mask, IP protocol, UDP source port, TCP source port, UDP destination port, TCP destination port.		
21		VLAN CoS preservation: the IEEE 802.1p priority bits.		
22		VLAN CoS differentiation: appropriate service differentiation must be applied according to the 802.1p bits.		
23	Security	Security forms an integral part of a network design to protect both the end-customers and the network infrastructure. The solution that vendor proposes shall have the necessary provisions to implement the necessary security measures.		
24		Support Access Control List to filter traffic based on Source & Destination IP Subnet, Source & Destination Port, Protocol Type and Port Range etc. Should Support SNMPv1/v2/V3.		
25		Black hole filtering: dropping of traffic destined for a specific prefix at wire speed.		
26		Ingress and egress packet filtering based on L2-L4 criteria at wire speed. The possibility to log the actions on individual filter rules shall be supported.		
27		Protection of local services (http, small udp/tcp servers, dhcp, telnet, ssh) based on L2-L4 criteria.		
28		AAA support – Accounting, Authorization and Authentication of users and commands. Support of local authentication and Radius.		
29		Authentication of routing protocol updates: OSPF, BGP.		

S. No.	Parameters	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
30	Performance	Router shall support non-blocking throughput capacity of 60 Gbps hs full duplex or higher.		
31		Router shall support 10k IPv4 & 5k IPv6 routes Multicast routes 1K		
32		Router shall support 100 multicast groups.		
33		Router shall support min 16 BFD sessions.		
34	Certificates and environment standards	Should comply to QM333 or latest specification		
35		Relative humidity: 5 to 85% (non-condensing).		
36		Operating temperature: 0°C to 40°C.		

Annexure 1.21 – Technical Specification & Compliance of Video Management System (VMS)

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	General		
	The Video Management System shall be a fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different vendors. The Video Management System shall offer centralized management of all devices, servers and users and must empower a flexible rule-based system driven by schedules and events.		
	VMS shall already support IP cameras from at least fifty (50) major vendors. Bidders shall clearly list in their proposal the brands and models already integrated into VMS. Documentary evidence of same should be mandatorily submitted.		

The VMS application shall support all the Documentary proof should be submitted	ne features & functionalities of the offered cam I for same.	eras.
The VMS offered should be integrated v	vith 5000+ camera models with API level Integra	ation.
To ensure openness, VMS and came should be tightly integrated.	eras may not be from the same manufacture	r but
VMS shall support installation and ability	y to run on virtualized windows servers	
VMS manufacturer shall provide their a documentation) to ensure a seamless in	SDK (or any other integration means) libraries ntegration with any other system	and
VMS shall be open to any standard stor	age technologies integration.	
VMS shall be open to any video wall sys	stem integration.	
VMS should have the possibility to integ	rate third party Video Analytics systems.	
VMS should consist of only Base licens with unlimited number of Failover Serve	se and Channel Licenses. VMS should be pro- rs and Failover Camera Licenses.	vided
VMS should support Scalable Video Qu storage, while a	ality Recording to record high-quality video to	edge
low-quality reference video stream can	be recorded centrally in the recording servers	
The VMS system shall be a scalable operating systems	client - server architecture built using well k	nown
The VMS system shall enable recording the local Control centre to import selected	g to be done at the aggregation sites and shall ed video's on demand.	allow
Aggregation site types shall be categor below.	ized according to function and size as per the	table

To facilitate the VMS system architecture, the Bidder shall ensure that sufficient capacity is designed into the data communications & telecommunications infrastructure to deliver the required functionality, along with the ability to allocate and reserve resources (including bandwidth).	
The VMS data communications and telecommunications network shall use a suitable transport medium and associated cabling and data transmission infrastructure that will support real-time video display of cameras at the nominated operations centers. The type of transmission network shall be determined by the Bidder.	
The VMS system shall be compatible to single and multiple processor servers. The server processor & hardware shall be optimized in all cases.	
The VMS system shall cluster the processing & memory load across several machines. The failure of any one server in the solution shall not cause a failure in the entire system.	
The VMS system device drivers shall be stored separately to the central core application to ensure any instability in 3rd party SDKs do not affect the core application.	
The VMS management server shall be able to intelligently scan an IP network for new devices (cameras or servers) along with automatic model detection.	
Network infrastructure and installation are the responsibility of the Bidder. Network components both active and required for the successful implementation of the video surveillance detailed in this tender shall be provided by the Bidder. The network infrastructure shall meet the streaming requirement of the project without any bottlenecks. The network infrastructure shall support UDP multicast, UDP unicast and TCP transmission.	
The VMS system shall provide an integrated secure, scalable and easily accessible software-based solution for the management of the existing & future physical security infrastructure	
The VMS system shall provide a powerful and efficient management interface for all the security systems across all monitored sites.	

The Video Management System shall be a fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different vendors. The Video Management System shall offer centralized management of all devices, servers and users and must empower a flexible rule-based system driven by schedules and events.	
The Video Management System shall contain recording servers used for recording video feeds and for communicating with cameras and other devices. The recording servers shall process the recordings and playback the video streams.	
The Video Management System shall include a federated architecture allowing clients on the host system with the right user rights to view video sources belonging to multiple independent Video Management Systems simultaneously, as if they were on The Video Management System shall contain a management server that shall be the central manager of the system and control recording servers, cameras, devices and users. The management server shall handle the initial client login, system configuration and logging.	
The management server shall allow access to a system manager from where the administrator can configure and manage all servers, cameras and users.	
The system shall allow the management server to be installed on multiple servers within a cluster of servers ensuring that another server in the cluster automatically takes over in case the first server fails.	
VMS should have the capability to integrate with 3 rd party Access Control Systems.	
The Video Management System shall support installation and ability to run on virtualized servers.	
The Video Management System shall support high availability of recording servers. A failover option shall provide standby support for recording servers with automatic synchronization to ensure maximum uptime and minimum risk of lost data.	
The Video Management System shall support a versatile rule system including scheduled or event-driven actions with numerous options including support to time profiles.	

The Video Management System shall include automatic camera discovery.	
The Video Management System shall support archiving for optimizing recorded data storage through unique data storage solutions by combining performance and scalability with cost efficient long-term video storage.	
The Video Management System shall incorporate fully integrated matrix functionality for distributed viewing of any camera in the system from any computer with the client viewer.	
The Video Management System shall incorporate intuitive map functions allowing for multilayered map environment. The map functionality shall allow for the interactive control of the complete surveillance system, at-a-glance overview of system integrity, and seamless drag-and-drop integration with video wall module option.	
The Video Management System shall support full two-way audio between clients and remote devices. Two-way audio integration shall support the following features and functions:	
The Video Management System software shall provide fast evidence export by exporting in video to various formats, including video from multiple cameras in encrypted native database format with an included viewer.	
The Video Management System shall show full awareness of the system through audit logs and shows user activity through comprehensive logs.	
The Video Management System shall include support for a frame work data module designed to integrate multiple third party Video Content Analysis (VCA) solutions seamlessly into client viewer environments.	
The Video Management System shall include a Software Development Kit (SDK) that offers important capabilities for integrating the Video Management System with third party software and applications.	

	The Video Management System shall include a stand-alone viewer application to be included with video exported from the client viewer application. The viewer application shall allow recipients of the video to browse and playback the exported video without installing separate software on their computers.	
	The system shall, after desired retention days, the video feeds will be overwritten unless it is flagged or marked by the authorities for investigation or any other purpose. The video feeds of all relevant cameras capturing the incident in question can be stored locally and/or centrally until the authorities deem it good for deletion.	
	The Video Management System shall include support for Active Directory to allow users to be added to the system. Use of Active Directory requires that a server running Active Directory, acting as a domain controller, to be available on the network.	
	The Video Management System shall be designed to support each component on the same computer for efficiency in smaller systems, or each component on separate systems for large system deployments.	
	Edge Storage	
	Edge storage shall secure that when a lost or broken connection is back up, the data stored on the camera's internal storage shall be retrieved and stored in the media database. Edge storage shall secure that after recovery from a malfunction it shall be possible to play back and view the video, and audio recorded by the device, while the malfunction persisted	
2	Bookmarking	
	A bookmarking feature shall be included in the Video Management System, allowing the client viewer users to mark incidents on live and/or playback video streams.	
3	Optimized Video Archiving	
	Administrators shall be able to select a storage container for each device and move a device from one storage container to another, or move all recordings inclusive archives to the new storage container, or delete them all.	

	Administrators shall be provided with an overview of the defined storage containers, their archives with path, and free and used space on the drives for each device, including the used storage space in the recording database, and in archives.	
4	Failover Support	
	The system shall support automatic failover for recording servers. This functionality must be accomplished by a failover server that shall work as a standby unit, which takes over in the event that one of a group of designated recording servers fails. Recordings shall be synchronized back to the original recording server once it is back online.	
	The system shall support multiple failover servers for a group of recording servers.	
	The system shall provide monitoring of all failover servers from the graphical alarm management module.	
	The system shall provide seamless access to recordings on the failover Server for all clients through the same client views once the services are fully started.	
5	Multicast Support/Multi-streaming support	
	The system shall support multicasting/multi-streaming of video feeds to client workstations in order to conserve network resources. Multicasting/multi-streaming should be enabled from the recording servers and not directly from the cameras. Thus, the IGMP network would be necessary only for the switches where server and clients are connected.	
	Multicasting/multi-streaming shall send a single stream of video to multiple clients, where the stream may be decoded and displayed on all clients simultaneously. This functionality shall support virtual matrix configurations.	
	The infrastructure provided for the system shall support Internet Group Management Protocol (IGMP) for each remote network.	
	The system shall automatically switch to unicast, if the client fails to connect to the multicast/multi- stream.	

ord individual streams of video from each	
eam in H.264 format and record another ctionality shall be providing independent n different resolution, encoding and frame	
b be configured with H.264 with a high em to be configured with high resolution k.	
led at 8fps.	
n must allow clients from outside of a nect to recording servers without using a	
ific port and this port must be forwarded al IP address.	
oring of the operational status and event- devices.	
ew of alarm status, or technical problems, troubleshooting.	
	tion for distributing video to any computer hich the matrix-triggered images can be

The client viewer shall provide remote users with a comprehensive suite of features:	
It shall be possible to playback recordings from cameras on the surveillance system, with a	
selection of advanced navigation tools, including an intuitive timeline browser.	
It shall be possible to access views of cameras on any PC with a client viewer application	
installed.	
It shall be possible to use multiple screens as well as floating windows for displaying	
different views simultaneously.	
It shall be possible to quickly substituting one, or more of a view's cameras with other	,
cameras.	
It shall be possible to view video from selected cameras in greater magnification and/or	
higher quality in a designated hotspot.	
It shall be possible to receive and send video through the matrix functionality.	
It shall be possible to include HTML pages and static images (for example, maps, or photos)	,
in views.	
It shall be possible to control PTZ cameras.	
It shall be possible to use digital zoom on live as well as recorded video.	
It shall be possible to activate manually triggered events.	
It shall be possible to activate external outputs (e.g. lights and sirens).	
It shall be possible to use sound notifications for attracting attention to detected motion.	
It shall be possible to get quick overview of sequences with detected motion.	
It shall be possible to get quick overviews of alerts.	
It shall be possible to quickly search selected areas of video recording for motion.	

It shall be possible to skip gaps during playback of recordings.	
It shall be possible to print images, with optional comments.	
It shall be possible to copy images for subsequent pasting into word processors, email,	etc.
It shall be possible to export recording (for example, for use as evidence) in AVI, JPEG database formats.	and
It shall be possible to use pre-configured as well as customizable keyboard shortcur speed up common actions.	s to
It shall be possible to insert overlay buttons, for example, for activation of speakers, even outputs, movement of cameras etc.	nts,
It shall be possible to use a sequence function that lists thumbnail images represent recorded sequences from an individual camera or all cameras in a view.	ting
It shall be possible to use a forced playback mode allowing the user to playback reco video from inside the 'live' mode while viewing 'live' video.	ded
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The client viewer shall support GPU based video decoding to improve video render performance and up to 75% reduction in CPU load of the workstation running C software. The use of GPU based video rendering shall also make client ready for 4K/R camera technology.	lient

	The client viewer shall have the capability to receive multicast/multi-streaming. The client viewer shall have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video.	
	The operator shall have the ability to use digital zoom where the zooming is performed in the image only on any number of cameras simultaneously. This functionality shall be the default for fixed cameras. The use of digital zoom shall have no effect on recording, or other users.	
10	Map Functions	
	Built-in map function in the client viewer shall provide an intuitive overview of the system and shall offer integrated access to all system components.	
	Map function shall be able to use standard graphical file formats including: jpg, gif, png, tif, etc.	
	It shall be possible to use any number of layered maps, and it shall be possible to easily drag-and-drop and point-and-click definition of cameras, servers, microphones, speakers, I/O devices, hot-zones, and PTZ camera presets.	
	Map function shall support instant camera preview when moving the mouse pointer over a specific camera.	
11	Remote Client Viewer	
	The web-based remote client viewer shall offer live view of up to 16 cameras, including PTZ control with joystick, fisheye (360 degrees) cameras and event/output activation. The playback function shall give the user concurrent playback of up to 16 recorded videos with date, alert sequence, or time searching.	
	The web-based remote client viewer shall offer quick overviews of sequences with detected motion.	
	The web-based remote client viewer shall be able to generate and export evidence in AVI (movie clip) and JPG (still image) formats.	

The system shall support the use of separate networks, VLANs, or switches for connecting the cameras to the recording servers providing physical network separation from the clients, and facilitate the use of static IP addresses for the devices.	
The system shall support H.264, H.265 compression formats for all analog cameras connected to encoders, and all IP cameras connected to the system.	
The system shall support dual-streaming cameras and shall cover the following compression formats: H.264.	
The recording server shall utilize high performance ISCSI, SCSI, SAS and SSD disk drives for online recording storage and shall allow the use of lower cost SATA drives for the RAID arrays for online archive storage. Use of online archiving shall ensure that data always is readily available. Use of tape-backup systems shall not be acceptable.	
The system shall allow the frame rate, bit rate and resolution of each camera to be configured independently for recording. The system shall allow the user to configure groups of cameras with the same frame rate, bit rate and resolution for efficient set-up of multiple cameras simultaneously.	
The recording server(s) shall have the ability to support multiple Network Interface Cards (NIC) and shall support connection to the cameras on a network separate from the client viewer, management server and system manager.	
The recording server shall have the ability to accept the full frame rate supplied by the cameras, while recording a lower frame rate yet still shall make the higher frame rate available to the clients for live viewing.	
The VMS should be mandatory provided with unlimited number of Client Licenses. In case of additional Licenses required, extra cost needs to be considered.	

Annexure: Technical specifications for CCTV Based Monitoring System for Police Stations in Uttar Pradesh

Annexure 1.22 – Technical Specification and Compliance of 2 KVA Solar system with 12 hrs backup

S.No	Nature of Requirement	Minimum Requirement Description	Complianc e (Yes/No)	Deviation s (If Any)
1	Make			
2	Model			
3	Power factor for lead	>=0.9		
4	Charger technology	MPPT		
5	Warranty of PCU	24 months		
6	Electrical protections	Under/over voltage protection at input & output of battery, Reverse polarity protection for array & battery, Output overload protection Short circuit protection, Over temperature protection, Surge protection		
7	Output phase	Single		
8	Charging stages	Boost, Absorption, Float		
9	Output waveform type	Pure Sine Wave		
10	Rated Output Voltage (AC)	230 Volt		
11	Rated Power (kVA)	2		
12	Conformity to specification	IEC 61683,IEC 60068,IEC 60529		
13	Controller	32 bit DSP controller		
14	Automatic changeover between solar & AC mains provided	Yes		
15	Efficiency at STP for linear loading	>=90%		

S.No	Nature of Requirement	Minimum Requirement Description	Complianc	Deviation
16	Protection class	IP21		
17	Rated Frequency	50 Hertz		
18	Input Phase	Single		
19	Maximum operating ambient temperature	50 degree Celsius		
20	Switching device	IGBT		
21	Nominal battery DC system voltage	24 Volt		
22	Display parameter	Array voltage, Array current, Array power, Battery voltage, Battery current, Grid Voltage, Output. Day kWh, Date, Time		
23	Power factor for lag	>=0.9		
24		PV Module		
25	Module glass air withstand capacity (km/hrs)	>=200km/hr		
26	Type of Solar Module	Polycrystalline		
27	Additional features	PID Resistance Technology, Multi-Layer EVA Encapsulation		
28	Rated power of each PV module used	335W		
29	Module conformity to specification	IEC 61215 Ed2,IEC 61701,IEC 61730 -1,IEC 61730-2		
30	Module linear power output degradation warranty	25 year		

S.No	Nature of Requirement	Minimum Requirement Description	Complianc	Deviation
31	Zero negative power tolerance	Yes		
32	Module frame material	anodised aluminium alloy frame		
33	Junction box Protection class	IP67		
34	open circuit voltage	49 Volt		
35	Marking on PV module	Name of manufacturer, month & year of manufacturing, I-V curve of module, Peak Power, Im, Vm, Fill factor, Serial no. Model number, Name of Lab issuing IEC, date & year of obtaining IEC PV module qualification		
36	Module efficiency	>=15%		
37	Module product warranty	25 year		
38		Module Mounting Structure		
39	Material of all nuts, bolts & fasteners etc.	Stainless steel		
40	Adjacent Module air gap	25 milli meter		
41	Mounting structure wind withstand ability	>=150km/hr		
42	Weather proof Junction box provided for connections	Yes		
43	Module tilt angle	20 degree		
44	Туре	Galvanised module mounting structures(MMS)		
45	Thickness(micron)	>=80		
46		Generic		

S.No	Nature of Requirement	Minimum Requirement Description	Complianc	Deviation
47	Component	Balance of System (BOS) Items/Components, Module Mounting Structure, Battery Rack/Trolley, Electrical Connections, DC MCB/DC Distribution Box, AC DISTRIBUTION BOARD (ACDB), Earthing & Lightning Protection		
48	Additional features to be specified	Lightening arrestor		
49	capacity of power plant (kVA)	1		
50		Battery		
51	Suitable battery stand/size with roller provided	Yes		
52	Acid level indicator provided	Yes		
53	Battery voltage	12 Volt		
54	No of battery	2		
55	Battery type	C 10 Tubular Lead Acid		
56	Battery capacity (Ah)	200		
57	Carrying handle	Yes		
58	Terminal cover provided	Yes		
59		BOS Items		
60	Switches/Circuit breaker/connector with SPD as per	IEC 529,SPD as per IEC 61643-11/12,IEC 60947,IS 60947		
61	PVC insulated cable for working voltage and UV protected for outer installation	TUV,IEC 60228,IS 694,IS 1554		

S.No	Nature of Requirement	Minimum Requirement Description	Complianc	Deviation
	as per			
62	Protection class of Junction box/enclosure box	IP 55,IP 65		
63	Earthing & Lighting protection as per	IEC- 62561-7		

Annexure 1.23 – Technical Specification & Compliance of NVR based Video Management System (VMS)

S.	Minimum Specifications	Compliance	Deviations
No.		(Yes/No)	(If Any)

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
1	General		
	The Video Management System shall be a fully distributed solution, designed for multi-site and multiple NVR installations requiring 24/7 surveillance with support for devices from different vendors. The Video Management System shall offer management of all devices, servers and users and must empower a flexible rule-based system driven by schedules and events.		
	The VMS application shall support all the features & functionalities of the offered cameras. Documentary proof should be submitted for same.		
	To ensure openness, VMS and cameras may not be from the same manufacturer but should be tightly integrated.		
	VMS shall support installation and ability to run on virtualized windows servers		
	VMS manufacturer shall provide their SDK (or any other integration means) libraries and documentation) to ensure a seamless integration with any other system		
	VMS shall be open to any standard storage technologies integration.		
	VMS shall be open to any video wall system integration.		
	VMS should have the possibility to integrate third party Video Analytics systems.		
	VMS should consist of only Base license and Channel Licenses. VMS should be provided with unlimited number of Failover Servers and Failover Camera Licenses.		
	VMS should support Scalable Video Quality Recording to record high-quality video as well as low-quality reference video stream can be recorded.		
	The VMS system shall enable recording to be done at the aggregation sites and shall allow the local Control centre to import selected video's on demand.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	To facilitate the VMS system architecture, the Bidder shall ensure that sufficient capacity is designed into the data communications & telecommunications infrastructure to deliver the required functionality, along with the ability to allocate and reserve resources (including bandwidth).		
	The VMS data communications and telecommunications network shall use a suitable transport medium and associated cabling and data transmission infrastructure that will support real-time video display of cameras at the nominated operations centers. The type of transmission network shall be determined by the Bidder.		
	The VMS system shall be compatible to single and multiple processor servers. The server processor & hardware shall be optimized in all cases.		
	The VMS management server shall be able to intelligently scan an IP network for new devices (cameras or servers) along with automatic model detection.		
	Network infrastructure and installation are the responsibility of the Bidder. Network components both active and required for the successful implementation of the video surveillance detailed in this tender shall be provided by the Bidder. The network infrastructure shall meet the streaming requirement of the project without any bottlenecks. The network infrastructure shall support UDP multicast, UDP unicast and TCP transmission.		
	The VMS system shall provide an integrated secure, scalable and easily accessible software-based solution for the management of the existing & future physical security infrastructure		
	The VMS system shall provide a powerful and efficient management interface for all the security systems across all monitored sites.		
	VMS software must include security mechanism such as digital signatures based meta data, overlaying date, time & label, watermark on each video feed to ensure the integrity (non-tampering) of the recorded or exported video feed.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	The Video Management System shall be a fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different vendors. The Video Management System shall offer management of all devices, NVRs, users and must empower a flexible rule-based system driven by schedules and events.		
	The Video Management System shall contain recording servers used for recording video feeds and for communicating with cameras and other devices. The recording servers shall process the recordings and playback the video streams.		
	The Video Management System shall include a federated architecture allowing clients on the host system with the right user rights to view video sources belonging to multiple independent Video Management Systems simultaneously The Video Management System shall handle the initial client login, system configuration and logging.		
	VMS should have the capability to integrate with 3 rd party Access Control Systems.		
	The Video Management System shall support installation and ability to run on virtualized servers.		
	The Video Management System shall support a versatile rule system including scheduled or event-driven actions with numerous options including support to time profiles.		
	The Video Management System shall include automatic camera/NVR discovery.		
	The Video Management System shall support archiving for optimizing recorded data storage through unique data storage solutions by combining performance and scalability with cost efficient long-term video storage.		
	The Video Management System shall incorporate fully integrated matrix functionality for distributed viewing of any camera in the system from any computer with the client viewer.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	The Video Management System shall incorporate intuitive map functions allowing for multi- layered map environment. The map functionality shall allow for the interactive control of the complete surveillance system, at-a-glance overview of system integrity, and seamless drag- and-drop integration with video wall module option.		
	The Video Management System shall support full two-way audio between clients and remote devices. Two-way audio integration shall support the following features and functions:		
	The Video Management System software shall provide fast evidence export by exporting in video to various formats, including video from multiple cameras in encrypted native database format with an included viewer.		
	The Video Management System shall show full awareness of the system through audit logs and shows user activity through comprehensive logs.		
	The Video Management System shall include support for a framework data module designed to integrate multiple third party Video Content Analysis (VCA) solutions seamlessly into client viewer environments.		
	The Video Management System shall include a Software Development Kit (SDK) that offers important capabilities for integrating the Video Management System with third party software and applications.		
	The Video Management System shall include a stand-alone viewer application to be included with video exported from the client viewer application. The viewer application shall allow recipients of the video to browse and playback the exported video without installing separate software on their computers.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	The system shall, after desired retention days, the video feeds will be overwritten unless it is flagged or marked by the authorities for investigation or any other purpose. The video feeds of all relevant cameras capturing the incident in question can be stored locally and/or centrally until the authorities deem it good for deletion.		
	The Video Management System shall include support for Active Directory to allow users to be added to the system. Use of Active Directory requires that a server running Active Directory, acting as a domain controller, to be available on the network.		
	The Video Management System shall be designed to support each component on the same computer for efficiency in smaller systems, or each component on separate systems for large system deployments.		
	Edge Storage		
	Edge storage shall secure that when a lost or broken connection is back up, the data stored on the camera's internal storage shall be retrieved and stored in the media database. Edge storage shall secure that after recovery from a malfunction it shall be possible to play back and view the video, and audio recorded by the device, while the malfunction persisted		
2	Bookmarking		
	A bookmarking feature shall be included in the Video Management System, allowing the client viewer users to mark incidents on live and/or playback video streams.		
3	Optimized Video Archiving		
	Administrators shall be able to select a storage container for each device and move a device from one storage container to another, or move all recordings inclusive archives to the new storage container, or delete them all.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	Administrators shall be provided with an overview of the defined storage containers, their archives with path, and free and used space on the drives for each device, including the used storage space in the recording database, and in archives.		
4	Multicast Support/Multi-streaming support		
	The system shall support multicasting/multi-streaming of video feeds to client workstations in order to conserve network resources. Multicasting/multi-streaming should be enabled from the recording servers and not directly from the cameras. Thus, the IGMP network would be necessary only for the switches where server and clients are connected.		
	Multicasting/multi-streaming shall send a single stream of video to multiple clients, where the stream may be decoded and displayed on all clients simultaneously. This functionality shall support virtual matrix configurations.		
	The infrastructure provided for the system shall support Internet Group Management Protocol (IGMP) for each remote network.		
	The system shall automatically switch to unicast, if the client fails to connect to the multicast/multi- stream.		
5	Multi-streaming Support		
	The recording server must accept, display and record individual streams of video from each camera that supports it, for example, display a stream in H.265/H.264 format and record another stream in MPEG4 format. The intent of this functionality shall be providing independent streams of video from the camera to the server with different resolution, encoding and frame rate.		
	Multi-streaming support shall allow the system to be configured with H.265/H.264 with a high frame rate for live viewing and shall allow the system to be configured with high resolution H.265/H.264 at low frame rates for recording and playback.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	The system shall allow recorded video to be recorded at configurable frame rate.		
6	NAT Firewall Support		
	The system shall support port forwarding, which must allow clients from outside of a Network Address Translation (NAT) firewall to connect to NVR without using a VPN.		
	Each NVR shall be mapped to a specific port and this port must be forwarded through the firewall to the recording server's internal IP address.		
7	Alarms Support		
	The alarm support shall allow for continuous monitoring of the operational status and event- triggered alarms from servers, cameras and other devices.		
	The alarm support shall provide a real-time overview of alarm status, or technical problems, while allowing for immediate visual verification and troubleshooting.		
8	Matrix Functionality		
	The system shall include an integrated matrix solution for distributing video to any computer with the client viewer installed. A computer on which the matrix-triggered images can be shown must be known as a matrix recipient.		
	The client viewer shall provide remote users with a comprehensive suite of features:		
	It shall be possible to playback recordings from cameras on the surveillance system, with a selection of advanced navigation tools, including an intuitive timeline browser.		
	It shall be possible to access views of cameras on any PC with a client viewer application installed.		
	It shall be possible to use multiple screens as well as floating windows for displaying different views simultaneously.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	It shall be possible to quickly substituting one, or more of a view's cameras with other cameras.		
	It shall be possible to view video from selected cameras in greater magnification and/or higher quality in a designated hotspot.		
	It shall be possible to receive and send video through the matrix functionality.		
	It shall be possible to include HTML pages and static images (for example, maps, or photos) in views.		
	It shall be possible to control PTZ cameras.		
	It shall be possible to use digital zoom on live as well as recorded video.		
	It shall be possible to activate manually triggered events.		
	It shall be possible to activate external outputs (e.g. lights and sirens).		
	It shall be possible to use sound notifications for attracting attention to detected motion.		
	It shall be possible to get quick overview of sequences with detected motion.		
	It shall be possible to get quick overviews of alerts.		
	It shall be possible to quickly search selected areas of video recording for motion.		
	It shall be possible to skip gaps during playback of recordings.		
	It shall be possible to print images, with optional comments.		
	It shall be possible to copy images for subsequent pasting into word processors, email, etc.		
	It shall be possible to export recording (for example, for use as evidence) in AVI, JPEG and database formats.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	It shall be possible to use pre-configured as well as customizable keyboard shortcuts to speed up common actions.		
	It shall be possible to insert overlay buttons, for example, for activation of speakers, events, outputs, movement of cameras etc.		
	It shall be possible to use a sequence function that lists thumbnail images representing recorded sequences from an individual camera or all cameras in a view.		
	It shall be possible to use a forced playback mode allowing the user to playback recorded video from inside the 'live' mode while viewing 'live' video.		
	The client viewer shall support the use of multimedia control devices, which are capable of emulating keystrokes, for the efficient review of recorded video.		
	The client viewer shall support the use of keyboard shortcuts for control of standard features. It shall allow the user to program numerical keyboard shortcuts for camera views. The shortcut number shall be displayed with the view description in the live and playback displays. The shortcut shall allow the user to change views with 2 to 3 keyboard entries.		
	The client viewer shall support GPU based video decoding to improve video rendering performance and up to 75% reduction in CPU load of the workstation running Client software. The use of GPU based video rendering shall also make client ready for 4K/UHD camera technology.		
	The client viewer shall have the capability to receive multicast/multi-streaming. The client viewer shall have the capability to detect if the network becomes unreliable and to automatically switch to unicast to ensure that the operator is able to receive video.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	The operator shall have the ability to use digital zoom where the zooming is performed in the image only on any number of cameras simultaneously. This functionality shall be the default for fixed cameras. The use of digital zoom shall have no effect on recording, or other users.		
9	Remote Client Viewer		
	The web-based remote client viewer shall offer live view of up to 16 cameras, including PTZ control with joystick, fisheye (360 degrees) cameras and event/output activation. The playback function shall give the user concurrent playback of up to 16 recorded videos with date, alert sequence, or time searching.		
	The web-based remote client viewer shall offer quick overviews of sequences with detected motion.		
	The web-based remote client viewer shall be able to generate and export evidence in AVI (movie clip) and JPG (still image) formats.		
	The system shall support the use of separate networks, VLANs, or switches for connecting the cameras to the recording servers providing physical network separation from the clients $_{7}$ and facilitate the use of static IP addresses for the devices.		
	The system shall support H.264, H.265 compression formats for all analog cameras connected to encoders, and all IP cameras connected to the system.		
	The system shall support dual-streaming cameras and shall cover the following compression formats: H.264/H.265.		
	The NVR shall utilize high performance ISCSI, SCSI, SAS and SSD disk drives for online recording storage and shall allow the use of lower cost SATA drives for the RAID arrays for online archive storage. Use of online archiving shall ensure that data always is readily available. Use of tape-backup systems shall not be acceptable.		

S. No.	Minimum Specifications	Compliance (Yes/No)	Deviations (If Any)
	The system shall allow the frame rate, bit rate and resolution of each camera to be configured independently for recording. The system shall allow the user to configure groups of cameras with the same frame rate, bit rate and resolution for efficient set-up of multiple cameras simultaneously.		
	The recording server(s) shall have the ability to support multiple Network Interface Cards (NIC) and shall support connection to the cameras on a network separate from the client viewer, management server and system manager.		
	The recording server shall have the ability to accept the full frame rate supplied by the cameras, while recording a lower frame rate yet still shall make the higher frame rate available to the clients for live viewing.		
	The VMS should be mandatory provided with unlimited number of Client Licenses. In case of additional Licenses required, extra cost needs to be considered.		