

**National Film Archive of India
Ministry of Information and Broadcasting
Government of India**

**Corrigendum - 3 to RFP for “IP BASED CCTV Surveillance System
at National Film Archive of India”**

Attention is invited to the Advertisement on All India basis inviting response to the Request for Proposal for IP BASED CCTV Surveillance System at National Film Archive of India. The said RFP was also uploaded on the NFAI’s website (www.nfai.gov.in) and Procurement website of Government of India (<https://eprocure.gov.in/cppp/>)

This Corrigendum shall be construed as a part of the RFP and it shall be the responsibility of the Bidder to read carefully and understand the changes / additions mentioned in this Corrigendum.

The rest of the content as mentioned in the RFP shall remain unchanged.

**Sd/-
Shri. Santosh Ajmera,
Officer on Special Duty, NFHM**

The table below mentions the revised dates related to the RFP.

S.No	Information	Details
1	Last date (deadline) for submission of bids	6 th December 2016 till 03.00 pm National Film Archive of India (NFAI) Law College Road Pune 411 004
2	Technical Bid opening date	6 th December 2016 at 04.00 pm National Film Archive of India (NFAI) Law College Road Pune 411 004

2.19.2 Pre-Qualification Criteria

The Bidder shall fulfil all of the following eligibility criteria independently on date of submission of bid:

Sr. No	Eligibility Criteria	Document Proof
1	The bidder / consortium should be a Company Registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932. Note: Consortium of maximum 2 members are allowed to participate in the bid.	<ul style="list-style-type: none"> Copy of the Memorandum and Article of Association OR Copy of the registered Partnership Deed OR Copy of the Certificate of Incorporation
2	<p>During last 5 years:</p> <ul style="list-style-type: none"> The Bidder / Any member of the consortium should have satisfactorily executed / completed at least 1 project of value 25 Lakh and of “Supply, Installation, Implementation, Testing, Commissioning and Maintenance of CCTV surveillance system” using same/similar products from the same OEM, in Government of India / State Government or in Private <p>OR</p> <ul style="list-style-type: none"> The Bidder / Any member of the consortium should have satisfactorily executed / completed at least 2 projects of value 1 Crore each using same/similar products from the same OEM and of “IT infrastructure” in Government of India / State Government 	<ul style="list-style-type: none"> Work Order / Project completion certificate clearly mentioning nature of the work carried out by the Bidder and the value of the project AND Project citation format as per Annexure 7 <p>Note: The date on Project work order / completion certificate shall be in the 5 preceding years</p>

Sr. No	Eligibility Criteria	Document Proof
	<p>Note: 5 years will be counted backwards from the month of release of this RFP. E.g. If date of release is 15th October 2016, then 5 years that shall be counted will be October 2011 to September 2012, October 2012 to September 2013, October 2013 to September 2014, October 2014 to September 2015 and October 2015 to September 2016</p>	
3	<p>The Bidder/Any member of the consortium must have an average annual turnover of INR 1.5 crore (Rupees One Crore Fifty Lakh) in the last three financial years i.e. FY 2013-14, FY 2014-15 and FY 2015-16.</p>	<ul style="list-style-type: none"> • A duly signed and stamped certificate from the Chartered Accountant mentioning the average annual turnover details of the last three financial years i.e. FY 2013-14, FY 2014-15 and FY 2015-16. <p>OR</p> <ul style="list-style-type: none"> • Audited P&L Statement in last three financial years i.e. FY 2013-14, FY 2014-15 and FY 2015-16.
4	<p>The Bidder/Any member of the consortium must possess an ISO 9001:2008 Certification.</p>	<p>Copy of the valid Certificate</p>
5	<p>Manufacturer Authorization Form (MAF) from the Original Equipment Manufacturer (OEM) on their original letterhead for all Products (active components) mentioned in BOQ (excluding 9U network rack) Note: The MAF shall be for this project and should specifically mention that</p>	<p>MAF shall be strictly as per the format enclosed in Annexure 3</p>
6	<p>The Bidder/Any member of the consortium should not be blacklisted by PSU / Government of India / State Government Departments as on date of submission of bid</p>	<p>A duly signed and stamped undertaking on the letter head of the Bidder should be provided</p>

2.19.4 Technical Evaluation

The Bidder with 75 or above score in the technical evaluation will be qualified for the financial bid evaluation. The proposals from Bidder will be evaluated based on evaluation parameters mentioned below.

Sr. No.	Criteria	Description	Maximum Marks
1	Profile of the Bidder: <ul style="list-style-type: none"> Financial Experience (Additional weightage to be given for similar work performed in the Government sector.)	Qualitative assessment based on supporting documentation and demonstration provided by the Bidder	20
2	Technical Compliance to all the tables mentioned in Annexure 5	The bidder has to comply with technical specifications mentioned in the RFP and marks to be evaluated as per compliance to the technicalities.	20
3	Quality of the Equipment's and products in the solution	Qualitative assessment based on equipments'/ products' brand/make/usage/past installation/ supporting documentation and demonstration provided by the Bidder;	20
4	Presentation on the Proposed Solution, Approach and Methodology	Overall Solution Architecture <ul style="list-style-type: none"> Equipments/Products proposed and their utility Network Design Approach Implementation Approach Control Centre Approach 	40
		Implementation team proposed	
		Implementation Timelines	
Grand Total			100

5. Detailed Item-Wise Specifications

Following are the minimum specifications required for each of the components under Section 5.

5.1 IP –Network PTZ Camera (IR- 50 Mtr)

Sr. No.	Feature	Parameter
1	Image Sensor	1/3 type 2 Megapixel sensor
2	Scanning	Progressive scan
3	Minimum Illumination	Color: 0.56 lx, B/W: 0.07 lx at F1.4 or better
4	Image Resolution	1920X1080 or better, 30 fps
5	Compression	Multiple H.264 high profile, JPEG
6	No of streams	Minimum 3 streams at different resolution and bit rate
7	Day/Night	True Day/Night with IR cut filter
8	Focal Length	4.5 mm - 128 mm or better, 30X optical zoom
9	Digital zoom	Minimum 10X
10	Inter-operability	ONVIF profile S, G Compliant
11	Wide Dynamic range	WDR 80 dB or more, True WDR would be preferred
12	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.
13	Anti-corrosive Body	Camera shall be protected from salty environment. Suitable body shall be provided
14	Pan Tilt Motor	Gear based drive preferred instead of belt drive
15	AGC	Shall be available
16	Digital Noise Reduction	3 D noise reduction preferred
17	VMD	Minimum 3 areas with different sensitivity levels
18	Image Stabilization	Shall be available
19	Panning	360° endless
20	Tilt	Min. 180° tilting is required
21	Image Stabilization	Camera shall have sufficient hardware as well as software design to withstand wind speed of 200 Km/hr and give stable image
22	IR Range	Adaptive / Smart IR minimum 20 mtrs
23	Humidity	Inbuilt mechanism to remove humidity in the camera body
24	Camera Rating	IP66 required
25	Impact Protection	IK10 rated required
26	Power	External power as specified by OEM
27	Alarm	3 Terminal inputs, VMD Alarm Action: SD memory recording, E-mail notification, Camera positioning, FTP image transfer, Terminal output, Auto tracking
28	Certification	UL, CE
29	Mount	Both vertically upward as well as downward shall be possible

5.2 Dome camera Specification (IR-30 Mtr)

Sr. No.	Feature	Parameter
1	Sensor	Image Sensor 1/3 type CCD/CMOS/MOS Sensor
2	Scanning	Progressive scan
3	Minimum Illumination	Color 0.5 lux and B/W: 0.02 lux F1.4 or better
4	White Balance	Shall be available
5	Light Control	indoor/outdoor mode selection, High light compensation to reduce vehicle head light impact
6	Shutter Speed	min. 1/30 - 1/10000
7	Dynamic Range	80 dB or more, True WDR would be preferred
8	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.
9	IR illumination	Integrated IR Illumination for atleast 30 mtrs
10	AGC	Shall be available
11	No. Of Streams	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams
12	Alarms	Minimum 2 terminals
13	Audio	2 Way Audio
14	Back focus Adjustment	automatic with hardware button and web based control
15	Certification	CE, UL
16	Firmware upgrade	Free for next 5 years
17	SDXC memory card slot	SDXC slot, Preferably SD card shall be locked with password and recorded video shall have alteration detection
18	Supported Image Resolution	H.264: 2,048 x 1,536 @ 30 fps and 1920 x 1080 resolution should support 60 fps
19	Network	RJ45, IPv4 & IPv6 compliant
20	Interoperability	ONVIF profile S compliant
21	Remote view	shall be possible to view on mobile / Remote PC
22	Outdoor Installation	Auto IRIS or Auto ELC
23	Power	PoE
24	Lens	3-9 mm or better, motorised
25	Temperature	-10 to + 50 deg C
26	Motion Detection	Minimum 3 programmable areas with at least 10 sensitivity levels
27	Outdoor Housing	Integrated IP66 with mount, IK10 rated, inbuilt de-humidification

5.3 Specification of Bullet Camera (30 Mtr)

Sr. No.	Feature	Parameter
1	Sensor	Image Sensor 1/3 type CCD/CMOS/MOS Sensor
2	Scanning	Progressive scan
3	Minimum Illumination	Color 0.5 lux and B/W: 0.02 lux F1.4 or better
4	White Balance	Shall be available
5	Light Control	indoor/outdoor mode selection, High light compensation to reduce vehicle head light impact
6	Shutter Speed	min. 1/30 - 1/10000
7	Dynamic Range	80 dB or more, True WDR would be preferred
8	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.
9	IR illumination	Integrated IR Illumination for at least 30 mtrs
10	AGC	Shall be available
11	No. Of Streams	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams
12	Alarms	Minimum 2 terminals
13	Audio	2 Way Audio
14	Back focus adjustment	automatic with hardware button and web based control
15	Certification	CE, UL
16	Firmware upgrade	Free for next 5 years
17	SDXC memory card slot	SDXC slot, Preferably SD card shall be locked with password and recorded video shall have alteration detection
18	Supported Image Resolution	H.264: 2,048 x 1,536 and 1920X1080 resolution should support 30 fps
19	Network	RJ45, IPv4 & Ipv6 compliant
20	Interoperability	ONVIF profile S compliant, should be listed on ONVIF site
21	Remote view	shall be possible to view on mobile / Remote PC
22	Outdoor Installation	Auto IRIS or Auto ELC
23	Power	PoE
24	Lens	3-9 mm
25	Temperature	-10 to + 50 deg C
26	Motion Detection	Minimum 3 programmable areas with at least 10 sensitivity levels
27	Outdoor Housing	Integrated IP66 with mount

5.4 Specification of Box Camera (50 Mtr)

Sr.No.	Feature	Parameter
1	Sensor	Image Sensor 1/3 type CCD/CMOS/MOS Sensor
2	Scanning	Progressive scan
3	Minimum Illumination	Color 0.5 lux and B/W: 0.02 lux F1.4 or better
4	White Balance	Shall be available
5	Light Control	indoor/outdoor mode selection, High light compensation to reduce vehicle head light impact
6	Shutter Speed	min. 1/30 - 1/10000
7	Dynamic Range	80 dB or more, True WDR would be preferred
8	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.
9	IR illumination	Integrated IR Illumination for at least 30 mtrs
10	AGC	Shall be available
11	No. Of Streams	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams
12	Alarms	Minimum 2 terminals
13	Audio	2 Way Audio
14	Back focus adjustment	automatic with hardware button and web based control
15	Certification	CE, UL, FCC
16	Firmware upgrade	Free for next 5 years
17	SDXC memory card slot	SDXC slot, Preferably SD card shall be locked with password and recorded video shall have alteration detection
18	Supported Image Resolution	H.264: 2048X1536 @ 30 fps and 1920X1080 resolution should support 60 fps
19	Network	RJ45, IPv4 & Ipv6 compliant
20	Interoperability	ONVIF profile S compliant, should be listed on ONVIF site
21	Remote view	shall be possible to view on mobile / Remote PC
22	Outdoor Installation	Auto IRIS or Auto ELC
23	Power	PoE,
24	Lens	3MP Lens 3-8/8-40mm or better of OEM/Tamaron/Fujinon make
25	Temperature	-10 to + 50 deg C
26	Motion Detection	Min. 3 programmable areas with at least 10 sensitivity levels
27	Outdoor Housing	IP66, IK10 rated with mount

11. Payment Terms

Sr. No	Milestone	Payment in % terms (excluding AMC charges)
1	Mobilization Advance At the time of Issuance of Work Order / Contract signing	10%
2	After receipt of deliveries of Materials as per BOQ at destination within 30 days from LOI/Work Order and its acceptance by NFAI (in writing).	30%
3	On successful laying and commissioning of the OFC cables within the premises of Phase 1 and Phase 2 for connectivity and after conducting a successful trial run of the entire system for a period of 10 days and to the satisfaction level of NFAI	40%
4	After successful installation and commissioning of System as per Contract Agreement and Successful Final Acceptance Test (FAT) by NFAI officials	15%
5	After successful completion of Warranty period as specified in clause <u>Warranty Terms</u>	5%
6	Annual Maintenance Contract Annual Maintenance Contract charges to be as per table 4. Note: This shall be the “C” of Table 4 as mentioned in Annexure-4 Template for financial proposal	Distributed equally in 20 quarters and payable at the end of each quarter

15.4 Template for financial proposal

Section A. Letter Format for Financial Proposal

(To be submitted on the Letterhead of the bidder) [Location, Date]

To
Officer on Special Duty,
National Film Heritage Mission,
National Film Archive of India,
Law College Road,
Pune – 411 004

Ref: RFP Notification no <<>>

Subject: Submission of Financial proposal in response to the RFP for “IP BASED CCTV Surveillance System at National Film Archive of India”

Dear Sir,

1. We, the undersigned, having read and examined in detail all the bidding documents in respect to IP BASED CCTV Surveillance System at National Film Archive of India, do hereby propose to provide our services as specified in the RFP.

2. **Price and Validity:** All the prices mentioned in our bid are in accordance with the terms as specified in the bidding documents. All the prices and other terms and conditions of this bid are valid for the entire duration of the contract.

3. **Taxes:** We have studied the clause relating to Indian Income Tax and hereby declare that if any applicable direct or indirect taxes (Foreign, Central or State or Local), rates, duties, charges and levies (Foreign, Central or State or Local), inclusive of Service tax is altered under the law, we shall pay the same. If applicable, all taxes, duties, levies and charges which are to be paid for the delivery of services have been paid by the Bidders in their respective countries.

4. **Deviations:** We hereby declare that all terms and conditions mentioned in RFP (all volumes, Annexures and Corrigendum) are acceptable to us without any deviation and all the services shall be performed strictly in accordance with the bid documents.

5. **Unit Rates:** We have indicated in the relevant schedules enclosed, the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to / decrease from the scope of work under the contract.

6. **Qualifying Data:** We confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/documentary proof in this regard before evaluation of our Tender, we agree to furnish the same in time to your satisfaction.

7. **Contract Performance Guarantee:** We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee bond as prescribed in 15.2 annexure 2.

8. **Bid Prices:** We offer to provide the services for [*Insert title of assignment*] in accordance with your Request for Proposal dated [*Insert Date*] and our Technical Proposal. Our attached Financial Proposal is for the sum of [*Insert amount(s) in words and figures*]. We are aware that any conditional financial offer will be outright rejected by NFAI. This amount is inclusive of all taxes as listed at (Summary) attached.

9. We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

10. We understand that our bid is binding on us and that you are not bound to accept a Bid you receive. We confirm that all the members of Consortium, if any are jointly and severally responsible for this commercial offer.

We are aware that NFAI reserves the right to accept or reject any or all bids without assigning any reasons thereof. We remain,

Yours sincerely,

Authorized Signature [*In full and initials*]:

Name and Title of Signatory:

Date and Stamp of the signatory

Name of Firm:

Section B**Table 1 – Summary**

Sr. No.	Item-wise Amounts (Inclusive of all applicable Taxes)	Total Amount (Rs.)
A	Cost of equipment and accessories as per Table – 2	
B	Implementation Cost as per Table – 3	
C	Maintenance and support (AMC) as per Table – 4	
Grand Total in words (A+B+C): (This figure shall be used for evaluation of financial proposals).		<u>“GT”</u>

Table 2: Cost of equipment and accessories**(Inclusive of all Applicable Taxes)**

S.No	Description	Qty	UoM	Make / Model	Unit Price Rs.	Total Price (Rs.)
A	B	C	D	E	F	G = C X F
1	40m. PTZ Camera (Ref. 5.1)	4	Nos			
2	30m DOME Camera (Ref. 5.2)	40	Nos			
3	50m Box Camera (Ref 5.2)	6	Nos			
4	30m Bullet Camera (Ref. 5.3)	9	Nos			
5	24 Port POE + Switch with minimum 2 SFP Port	10	Nos			
6	1G SFP Modules Multi-mode	4	Nos			
7	Cat 6 Cable	11	Box			
8	Cat 5e STP Cable	6	Box			
9	Cat 6 24 Port Loaded Patch Panel	3	Nos.			
10	Cat 6 1 mtr Patch chord	90	Nos.			
11	9 U Rack	6	Nos			
12	1KVA Rack Mountable Ups with min 10 Minutes backup	6	Nos.			
13	12 port Loaded LIU multimode	4	Nos			

S.No	Description	Qty	UoM	Make / Model	Unit Price Rs.	Total Price (Rs.)
A	B	C	D	E	F	G = C X F
14	6 core OFC Multimode	450	Mtrs			
15	SC-SC Patch Cord	4	Nos			
16	25 mm HDPE Pipe	300	Mtr			
17	GI Pipe 2” Inch	20	Mtr			
18	Casing Patti 1”	1	Nos			
19	Casing Patti 2”	1	Nos			
20	PVC Pipe 1 “	1	Nos			
21	Tape Library	1	Nos			
22	SAN Switch	1	Nos			
23	Backup Solution	1	Nos			
24	LTO 7	6	Nos			
25	Software (Provide details e.g. No. of licenses, components, VMS)	Please specify				
26	Server	2	Nos			
Grand Total in words - (This figure shall be used for evaluation of financial proposals).						<u>“A”</u>

Table 3 – Implementation Cost**(Inclusive of all Applicable Taxes)**

Sr. No.	Item-wise Amounts	Total Amount (Rs.)
1	Charges of the services related design, installations, commissioning and implementation of the CCTV network at NFAI.	
Grand Total in words - (This figure shall be used for evaluation of financial proposals).		<u>“B”</u>

Table 4 – Maintenance & Supports**(Inclusive of all Applicable Taxes)**

Sr. No.	Item-wise Amounts	Year (1) Amount (Rs.)	Year (2) Amount (Rs.)	Year (3) Amount (Rs.)	Year (4) Amount (Rs.)	Year (5) Amount (Rs.)	Total Amount (Rs.)
Cost of the maintenance and supports							= Y1+Y2+Y3+Y4+Y5
1	Equipments						
2	Software						
3	Helpdesk Support						
Grand Total in words - (This figure shall be used for evaluation of financial proposals).							<u>“C”</u>

Note:

- * “GT” shall be used for arriving at the lowest Financial Bidder, where “GT” = “A”+“B”+“C” in tables 1, 2, 3 and 4 above
- * In case of discrepancy in values in figures and word, the value in words shall be considered as final and will be used for financial calculations of Bidder
- * Prices quoted should be inclusive of all applicable taxes
- * NFAI reserves the right to increase/decrease the quantum of procurement as quoted in the BoQ and price per unit shall be used to arrive at the final applicable payments.
- * The prices quoted shall remain effective and same till 1 year from the signing of contract.
- * The payment to the Bidder shall be made on the actual work performed by the Selected Bidder as per the quoted unit rates.

15.5 Annexure 5 – Technical Compliance Sheets

15.5.1 IP –Compliance to Network PTZ Camera (IR- 50 Mtr)

Sr. No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
1	Image Sensor	1/3 type 2 Megapixel sensor		
2	Scanning	Progressive scan		
3	Minimum Illumination	Color: 0.56 lx, B/W: 0.07 lx at F1.4 or better		
4	Image Resolution	1920X1080 or better, 30 fps		
5	Compression	Multiple H.264 high profile, JPEG		
6	No of streams	Minimum 3 streams at different resolution and bit rate		
7	Day/Night	True Day/Night with IR cut filter		
8	Focal Length	4.5 mm - 128 mm or better, 30X optical zoom		
9	Digital zoom	Minimum 10X		
10	Inter-operability	ONVIF profile S, G Compliant		
11	Wide Dynamic range	WDR 80 dB or more, True WDR would be preferred		
12	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.		
13	Anti-corrosive Body	Camera shall be protected from salty environment. Suitable body shall be provided		
14	Pan Tilt Motor	Gear based drive preferred instead of belt drive		
15	AGC	Shall be available		
16	Digital Noise Reduction	3 D noise reduction preferred		

Sr. No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
17	VMD	Minimum 3 areas with different sensitivity levels		
18	Image Stabilization	Shall be available		
19	Panning	360° endless		
20	Tilt	Min. 180° tilting is required		
21	Image Stabilization	Camera shall have sufficient hardware as well as software design to withstand wind speed of 200 Km/hr and give stable image		
22	IR Range	Adaptive / Smart IR minimum 20 mtrs		
23	Humidity	Inbuilt mechanism to remove humidity in the camera body		
24	Camera Rating	IP66 required		
25	Impact Protection	IK10 rated required		
26	Power	External power as specified by OEM		
27	Alarm	3 Terminal inputs, VMD Alarm Action: SD memory recording, E-mail notification, Camera positioning, FTP image transfer, Terminal output, Auto tracking		
28	Certification	UL, CE		
29	Mount	Both vertically upward as well as downward shall be possible		

15.5.2 Compliance to Dome camera Specification (IR-30 Mtr)

Sr. No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
1	Sensor	Image Sensor 1/3 type CCD/CMOS/MOS Sensor		
2	Scanning	Progressive scan		
3	Minimum Illumination	Color 0.5 lux and B/W: 0.02 lux F1.4 or better		
4	White Balance	Shall be available		
5	Light Control	indoor/outdoor mode selection, High light compensation to reduce vehicle head light impact		
6	Shutter Speed	min. 1/30 - 1/10000		
7	Dynamic Range	80 dB or more, True WDR would be preferred		
8	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.		
9	IR illumination	Integrated IR Illumination for atleast 30 mtrs		
10	AGC	Shall be available		
11	No. Of Streams	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams		
12	Alarms	Minimum 2 terminals		
13	Audio	2 Way Audio		
14	Back focus Adjustment	automatic with hardware button and web based control		
15	Certification	CE, UL		

Sr. No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
16	Firmware upgrade	Free for next 5 years		
17	SDXC memory card slot	SDXC slot, Preferably SD card shall be locked with password and recorded video shall have alteration detection		
18	Supported Image Resolution	H.264: 2,048 x 1,536 @ 30 fps and 1920 x 1080 resolution should support 60 fps		
19	Network	RJ45, IPv4 & IPv6 compliant		
20	Interoperability	ONVIF profile S compliant		
21	Remote view	shall be possible to view on mobile / Remote PC		
22	Outdoor Installation	Auto IRIS or Auto ELC		
23	Power	PoE		
24	Lens	3-9 mm or better, motorised		
25	Temperature	-10 to + 50 deg C		
26	Motion Detection	Minimum 3 programmable areas with at least 10 sensitivity levels		
27	Outdoor Housing	Integrated IP66 with mount, IK10 rated, inbuilt de-humidification		

15.5.3 Specification of Bullet Camera (30 Mtr)

Sr. No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
1	Sensor	Image Sensor 1/3 type CCD/CMOS/MOS Sensor		
2	Scanning	Progressive scan		
3	Minimum Illumination	Color 0.5 lux and B/W: 0.02 lux F1.4 or better		
4	White Balance	Shall be available		
5	Light Control	indoor/outdoor mode selection, High light compensation to reduce vehicle head light impact		
6	Shutter Speed	min. 1/30 - 1/10000		
7	Dynamic Range	80 dB or more, True WDR would be preferred		
8	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.		
9	IR illumination	Integrated IR Illumination for at least 30 mtrs		
10	AGC	Shall be available		
11	No. Of Streams	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams		
12	Alarms	Minimum 2 terminals		
13	Audio	2 Way Audio		
14	Back focus adjustment	automatic with hardware button and		

Sr. No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
		web based control		
15	Certification	CE, UL		
16	Firmware upgrade	Free for next 5 years		
17	SDXC memory card slot	SDXC slot, Preferably SD card shall be locked with password and recorded video shall have alteration detection		
18	Supported Image Resolution	H.264: 2,048 x 1,536 and 1920X1080 resolution should support 30 fps		
19	Network	RJ45, IPv4 & Ipv6 compliant		
20	Interoperability	ONVIF profile S compliant, should be listed on ONVIF site		
21	Remote view	shall be possible to view on mobile / Remote PC		
22	Outdoor Installation	Auto IRIS or Auto ELC		
23	Power	PoE		
24	Lens	3-9 mm		
25	Temperature	-10 to + 50 deg C		
26	Motion Detection	Minimum 3 programmable areas with at least 10 sensitivity levels		
27	Outdoor Housing	Integrated IP66 with mount		

15.5.4 Compliance to Specification of Box Camera (50 Mtr)

Sr.No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
1	Sensor	Image Sensor 1/3 type CCD/CMOS/MOS Sensor		
2	Scanning	Progressive scan		
3	Minimum Illumination	Color 0.5 lux and B/W: 0.02 lux F1.4 or better		
4	White Balance	Shall be available		
5	Light Control	indoor/outdoor mode selection, High light compensation to reduce vehicle head light impact		
6	Shutter Speed	min. 1/30 - 1/10000		
7	Dynamic Range	80 dB or more, True WDR would be preferred		
8	Intelligent Compression	50% reduction in bandwidth during zero motion with same fps and resolution.		
9	IR illumination	Integrated IR Illumination for at least 30 mtrs		
10	AGC	Shall be available		
11	No. Of Streams	Min. 3 streams or more at H.264 high profile with 1 JPEG. Total 4 streams		
12	Alarms	Minimum 2 terminals		
13	Audio	2 Way Audio		
14	Back focus adjustment	automatic with hardware button and web based control		
15	Certification	CE, UL, FCC		
16	Firmware upgrade	Free for next 5 yeas		
17	SDXC memory card slot	SDXC slot, Preferably SD card shall be locked with password and recorded video shall have alteration detection		

Sr.No.	Feature	Parameter	Make / Model	Compliance / Deviation Please specify in detail
18	Supported Image Resolution	H.264: 2048X1536 @ 30 fps and 1920X1080 resolution should support 60 fps		
19	Network	RJ45, IPv4 & Ipv6 compliant		
20	Interoperability	ONVIF profile S compliant, should be listed on ONVIF site		
21	Remote view	shall be possible to view on mobile / Remote PC		
22	Outdoor Installation	Auto IRIS or Auto ELC		
23	Power	PoE,		
24	Lens	3MP Lens 3-8/8-40mm or better of OEM/Tamaron/Fujinon make		
25	Temperature	-10 to + 50 deg C		
26	Motion Detection	Min. 3 programmable areas with at least 10 sensitivity levels		
27	Outdoor Housing	IP66, IK10 rated with mount		