

### **ESTATE MAINTENANCE DEPARTMENT NOTICE INVITING QUOTATION**

File No.	NITT/F.NO.037/CAPEX(OH-35)/2024-25/EMD	Date:	14.10.2024
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#### To

(Supplier Address)

Sealed quotations are invited from reputed Authorized Dealers / manufacturers for the

supply of the Items

	supply of the items.				
Nar	ne of the Item	em : CCTV			
Qua	antity Required	:	01 No		
Spe	Specification		(As per enclosed Schedule Annexure – I)		
1.	Quotation Reference No.	:	NITT/F.NO.037/CAPEX(OH-35)/2024- 25/EMD		
2.	Last date and Time for receipt of quotation	:	04.11.2024 before 11 00 AM		
3.	Date &Time of opening of Quotation	:	04.11.2024 at 02.00 PM		
4.	EMD Amount	:	Rs. 5,000/-		
5.	Validity (Days)	:	90 Days		
6.	Address to which quotations are	:	The Director,		
	to be sent		National Institute of Technology,		
			Tiruchirappalli – 620 015, Tamil Nadu,		
			India		
	Kind attention to	:	Mr. S. Arjun dharsan		
	Phone	:	94860 01146		
	E-mail	:	cworks@nitt.edu, sarjun@nitt.edu		

- 1. Quotations should be submitted in the format given in Annexure I and Annexure-II
- 2. The envelope should contain the following details:

### "QUOTATION AGAINST ENQUIRY" (CCTV)

NITT/F.NO.037/CAPEX(OH-35)/2024-25/EMD

Kind attention to: Mr. S. Arjun dharsan, ESTATE MAINTENANCE DEPARTMENT

Last date and Time for receipt of quotation : 04.11.2024 before 11 00 AM



#### **Terms and Conditions:**

#### **Earnest Money Deposit (EMD)**

- 1. Earnest Money Deposit (EMD) is to be submitted through SBI collect link as below. The bids submitted without EMD will be treated as non-responsive and will be rejected. EMD shall bear no interest.
- 2. Bidder must fill the EMD returning Form (Annexure-III) and submit along with the quotation.
- 3. EMD will be returned to the unsuccessful Bidder(s) as per the purchase norms.
- 4. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender.
- 5. UDYAM & NSIC registered Micro & small enterprises are exempted from paying EMD amount as per Govt. norms (proof to be attached). For availing EMD exemption, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. In respect of bid for Services, the bidder must be the Service provider of the offered services. Traders/Distributors/agents are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises.

EMD amount	Rs.5,000/-
SBI Collect Link	
mode (Payment	
Category- NITT	https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=1768557
Tender- Earnest	
Money Deposit).	

The bidder must enclose SBI collect receipt along with the quotations, failing which the bid shall be rejected without any further communication.

- The quotation must be in the format furnished by NIT Tiruchirappalli and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not, the quotation will not be considered. Quotation written in pencil and incomplete will be rejected.
   You are invited to submit your most competitive quotation for the supply of
- 1. You are invited to submit your most competitive quotation for the supply of goods according to the specifications and delivery terms as given.
- 2. Bidders may send the quotations in sealed covers with the quotation reference number and last date for receipt of quotations duly superscribed on the cover. Mention the company Contact Number / E-mail id on the cover.
- Quotation will be opened on due date at 04-11-2024 at 02.00 PM at the Store and Purchase Section, NIT, Tiruchirappalli in presence of the tenderers or their representatives who may wish to be present.
   (Any change in the date, time and venue of the quotation opening will be informed to the bidders through telephone / E-mail)
- 4. The National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject all quotations at any time prior to the award of order without assigning any specific reason thereof.



- 5. Manufacturer's name and country of origin of materials offered must be clearly specified. Printed brochures, Purchase preference is only for Micro & Small enterprises (MSE's) register in UDYAM Portal or NSIC as per Ministries policy for MSE's. Proof to be attached
- 6. Samples must be submitted where specified along with the quotations. Samples must be carefully packed, sealed and labelled clearly with enquiry number, subject and sender's name for easy identification. Rejected samples will be returned at your cost if insisted
- 7. All supplies are subject to inspection and approval before acceptance. Manufacturer / supplier warranty certificates and manufacturer / Government approved lab test certificate shall be furnished along with the supply, wherever applicable
- 8. National Institute of Technology, Tiruchirappalli reserves the right to modify the quantity specified in this enquiry.
- 9. Startup company exempted from prior turnover & prior experience (startup certificate registered with DIPP should be enclosed)
- 10. The bidder has to submit the bids in sealed envelope, (separate for each tender). Further Bidder should not send clubbing many tenders in one envelope, in such case all the bids will be rejected.

#### 11. Bid Price

- a. The contract shall be for the full quantity Bidders must quote for entire quantity. Each bidder shall submit only one quotation in Indian Rupee only.
- a. Post work orders & completion certificate should be submitted, wherever applicable.
- b. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- c. GST, packing, forwarding and delivering other allied items at the destination shall be included in the price. All such price components may be shown in the quotation. If there is no indication regarding above charges. It will be considered as inclusive of all charges.
- d. If any arithmetic mistake in total / GST calculation is observed, the same shall be corrected by the purchaser with an intimation to bidder
- e. In case the items in the enquiry are covered by any rate contract or any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned. It should be confirmed whether you could supply at the RC rates outside rate contract
- f. Quotations containing conditions like "subject to prior sale" may not be considered.
- g. Delivery period required for supplying the material should be invariably specified in the quotation
- h. Bids without quoting GST (unless exempted) will be treated as invalid & disqualified.
- i. If there is a discrepancy between unit price and total price, the unit price will be considered. If there is any mismatch between figure and word, the amount in word shall prevail.
- 12. **Evaluation of quotations:** Quotations will be evaluated item-wise or lump sum basis. The purchase committee will evaluate and compare the quotations determined to be substantially responsive i.e. (i) are properly signed; (ii) Conform to the terms & conditions and specifications; and (iii) price offered are competitive.

#### 13. Award of contract



- a. The National Institute of Technology, Tiruchirappalli will award the Order for supply of Goods / Services to the bidder whose quotation has been determined to be substantially responsive, and who has offered the lowest evaluated quotation price.
- a. The Bidder should furnish the contract agreement and performance security within 15 days from the date of receipt of the order for supply of goods / services, failing which the order will be cancelled without further notice and awarded to next eligible bidder.
- b. Notwithstanding the above, National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject all quotations at any time prior to the award of order without assigning any specific reason thereof.
- c. National Institute of Technology, Tiruchirappalli, prior to the expiration of the quotation validity period, will notify the bidder whose bid is accepted for the award of contract. The terms of accepted offer shall be incorporated in the purchase order.

#### 14. Warranty: 60 Months

- 15. **Performance Security:** Security deposit should be **3%** of purchase order value in case of Performance Bank Guarantee should be valid for 60 days beyond the guarantee & warranty. The successful bidder need to submit performance security (As mentioned in Annexure –I) of purchase order value either in the form of bank guarantee or crossed demand draft drawn on any Nationalized bank in India in favor of "The Director, NIT, Tiruchirappalli" payable at Trichy. The bank guarantee / Demand Draft will be returned to the supplier after 60 days from date of successful completion of supply, installation, and the warranty period.
- 16. **Payment:** 100% will be paid after Installation and satisfactory working/date of completion of service if the documents are in order. The bill should be raised in favor of "The Director, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India." with institute GST No. 33AAATN5491Q1ZZ. No advance will be provided to the supplier and installer.

#### 17. Liquidity damages

If the bidder / supplier, after accepting the Purchase Order or supply of Goods / Services, fails to deliver any or all of the Goods or to perform Services within the period(s) specified in the Order, The National Institute of Technology, Tiruchirappalli shall impose penalty without assigning any reasons to the bidder / supplier a sum equivalent to 0.50 % of the total cost as indicated in the Purchase Order (which will be deemed as agreed price) for each week or part thereof of delay until actual delivery or performance is completed and such penal charges shall be limited to a maximum of 5% of the agreed price. Once the maximum is reached The National Institute of Technology, Tiruchirappalli, may proceed on its own to consider the termination / cancellation of the Order and may inform the bidder about the cancellation of the said purchase order. unless extension is obtained in writing from the office / Department on valid ground before expiry of delivery period

- 18. If the deliveries are not maintained and due to that account Procuring Entity is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier
- 19. Dispute clause: Any dispute relating to the Enquiring /Tender of the indented item shall be under the Hon'ble Court having its jurisdiction over Tiruchirappalli only
- 20. Startup company exempted from Prior Turnover & Prior Experience (Startup certificate registered with DIPP should be enclosed)



21.	GST as applicable
22.	Performance Bank guarantee should be valid for 60 days beyond the guarantee & warranty and the BG submitted for EMD shall be valid for 45 days beyond bid validity period.
23.	The successful bidder should submit <b>Security Deposit/PBG</b> within 15 days from the date of placement of order. The <b>EMD</b> shall be returned only after receipt of SD. If the bidder fails to deliver the material, then the <b>EMD/SD</b> shall be forfeited.



#### **ACCEPTANCE BY THE BIDDER**

I/We hereby certify that I/We shall abide hereby the terms and conditions and the Annexures of this limited quotation.

#### Signature & Seal of Vendor with Date

For any details / clarifications regarding could be obtained from Stores and Purchase Section on all working days during 10 AM to 5 PM.

For further detail related to Technical specifications kindly contact Mr. S. Arjun dharsan (Purchase initiator) ESTATE MAINTENANCE DEPARTMENT, cworks@nitt.edu, sarjun@nitt.edu, 94860 01146

(NB: Mention the Contact Number / E-mail on the cover. Any change in the date, time and venue of the tender opening will be informed to the bidders through telephone / E-mail)

**Enclosures:** 1) Specifications of the equipment Annexure – I

2) Price Format Annexure - II

3) EMD Return Format Annexure – III

4) Bank Mandate Form Annexure – IV



#### **ESTATE MAINTENANCE DEPARTMENT**

**Annexure-I** 

#### **Specifications of the Equipment**

**Ref:** NITT/F.NO.037/CAPEX(OH-35)/2024-25/EMD

Date: 14.10.2024

#### **Evaluation Criteria:**

- 1) Model quoted should be in compliance with BIS certification. Proof to be submitted.
- 2) Products quoted should be of international repute. Bidder should submit Proof of experience of installation of CCTV in reputed organization in last 5 years. Copy of workorders and completion certificate to be enclosed.
- 3) The MAC address of the IP cameras must be registered in the name of OEM supplying the cameras.
- 4) Labelled or Third Party Manufactured Products will be disqualified, it should be manufactured by the same company of brand specified products.

			Make	Model
SI.no	Name of the Equipment / Goods	Qty.	(to be specified by Supplier)	(to be specified by Supplier)
1	4MP Dome IP Camera with Min. 2 Years Warranty	10		
2	4MP Outdoor Bullet IP Camera with Min. 2 Years Warranty	10		
3	32 Channel Network Video Recorder (NVR) with Min. 2 Years Warranty	1		
4	8TB Surveillance Hard disks with Min. 3 Years Warranty	4		
5	8-Port PoE+ Switch	3		
6	8-Port Gigabyte Non POE Switch	1		
7	9U Network Rack	2		
8	1kVA Single Phase UPS with Min. 2 Years Warranty	3		
9	CAT 6 UTP Cable Box 305 Meter *	3		
10	25mm PVC Conduit/Casing 2 Meter *	150		
11	2" PVC Conduit/Casing 2 Meter *	70		
12	PVC Box and Accessories *	16		
13	Installation and Configuration of Camera's, NVR, PoE Switch's and Racks, UPS, CAT cable installation (CAT6 Cable Laying, Crimping, Dressing and Casing Capping from Switch Rack to Camera points), PVC conduit installation	1AU		
14	43" inch android TV with Min. 2 Years Warranty	1 no		

### **Technical Specification of Individual Items**

1.Name of the Equipment / Goods		4 MP Dome IP Camera		
Sr.No	General Specification	Technical Specification	Compliance (Yes/No)	Remark if any



1   Sensor	. —			_
CMOS			1/3", 4.0 megapixel,	
Colour: 0.003 lux (F1.6, AGC ON)	1	Sensor		
2			CMOS	
2		<u></u>	Colour 0 003 lux	
Minimum illumination	2			
Baseline   Baseline		Minimum Illumination		
Shutter			ULux with light	
Shutter	_		IR-cut filter with auto	
Adjustment angle	3	Day/Night		
1		<b>.</b>		
Same	4	Shutter		
Silvarian				
Rotate: 0" ~ 360°   S2dB   S7N   S52dB   S7   WDR   120dB   S52dB   S7   WDR   120dB   S8   Lens Type   2.8mm @F1.6   S9   Iris   Fixed   S9   Iris   Fixed   S9.1   S9.	5	Adjustment angle	Tilt: 0° ~ 80°	
S/N   S52dB   T   WDR   120dB   T		, ,		
To   Lens   Lens   Type   Lens   Lens   Type   Lens   Lens Type   Lens   Lens Type   Lens   Lens Type   Lens   Lens Type   L	6	S/N		
B			120dB	
B				
9	8		2.8mm @F1.6	
10   Field of View (H)   112.9°				
Title   Field of View (V)   S9.1°   121.2°   Field of View (D)   121.2°				
12				
Illuminator	12		121.2°	
14		( )		
14	40	ID D	Up to 30m (98ft) IR	
14	13	IR Range		
Wille Light Range   IR: 850nm   IR: 850n	4.4	M/hita Linkt Dansa		
15   Wavelength	14	white Light Range		
16	15	Wavelength	IR : 850nm	
Video Compression	16	•	Auto/Manual	
H.264, MJPEG   Baseline profile,   Main profile, High profile   Main Stream: 4MP (2688*1520), Max 25fps; 4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; D1 (720*576), Max 30fps; E40*360, Max 30fps; C40*360, Max 30fps; D1 (720*576), Max 30fps; C40*360, M		Video		
H.264, MJPEG   Baseline profile,   Main profile, High profile   Main Stream: 4MP (2688*1520), Max 25fps; 4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; D1 (720*576), Max 30fps; E40*360, Max 30fps; C40*360, Max 30fps; D1 (720*576), Max 30fps; C40*360, M	47	Video Oceanies	Ultra 265, H.265,	
Baseline profile,   Main profile,   High profile	17	Video Compression		
Profile				
Main Stream: 4MP (2688*1520), Max 25fps;4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; D1 (720*576), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps; 20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported	18	H.264 Code Profile	Main profile, High	
(2688*1520), Max 25fps;4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported			profile	
25fps;4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported				
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30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported				
30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported				
19 Frame Rate  30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate  128 Kbps~16 Mbps 21 U-code  Supported			30fps; 1080P	
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30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported	19	Frame Rate	30fps; 720P	
Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported			(1280*720), Max	
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(720*576), Max 30fps; 640*360,Max 30fps;  20 Video Bit Rate 128 Kbps~16 Mbps 21 U-code Supported			(1280*720), Max	
30fps; 640*360,Max   30fps;				
30fps;           20 Video Bit Rate         128 Kbps~16 Mbps           21 U-code         Supported				
20Video Bit Rate128 Kbps~16 Mbps21U-codeSupported			30fps; 640*360,Max	
21 U-code Supported				
			·	
22 OSD Up to 4 OSDs				
	22	OSD	Up to 4 OSDs	



23	Privacy Mask	Up to 4 areas	
24	ROI	Up to 8 areas	
25	Video stream	Dual streams	
	Image		
26	White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2	
27	Digital Noise Reduction	2D/3D DNR	
28	Smart IR	Support	
29	Flip	Normal/Vertical/Hori zontal/180°/90°Cloc kwise/90°Anti- clockwise	
30	HLC	Support	
31	BLC	Support	
32	Defog	Digital Defog	
	Events		
33	Basic Detection	Cross line, intrusion (based on human body detection), Motion detection, Ultra motion detection, tampering alarm, audio detection	
34	General Function	Watermark, IP address filtering, access policy, ARP protection, RTSP authentication, user authentication, HTTP authentication	
	Audio	TITTI danomodion	
35	Audio Compression	G.711U, G.711A	
36	Audio Bitrate	64 Kbps	
37	Two-way Audio	Support	
38	Suppression	Support	
39	Sampling Rate	8KHZ	
	Storage		
40	Edge Storage	Micro SD, up to 128 GB	
41	Network Storage	ANR,NAS(NFS)	
	Network		
42	Protocols	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL/TLS, 802.1x, SNMP	
43	Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK	



		11 ( 00 0	
		Up to 32 users. 2	
44	User/Host	user levels:	
		administrator and	
		common user	
		Password	
		protection, Strong	
		password, HTTPS	
		encryption, Export	
		operation logs,	
		Basic and digest	
45	Security	authentication for	
		RTSP, Digest	
		authentication for	
		HTTP, TLS 1.2,	
		WSSE and digest	
		authentication for	
		ONVIF	
46	Client	EZStation EZView	
40	Onent	EZLive	
		Plug-in required live	
		view: IE 10 and	
		above, Chrome 45	
		and above, Firefox	
		52 and above, Edge	
47	Web Browser	79 and above	
		Plug-in free live	
		view: Chrome 57.0	
		and above, Firefox	
		58.0 and above,	
		Edge 16 and above	
	Interface		
48			
	Audio I/O	N/A	
49	Alarm I/O	N/A	
49 50		N/A N/A	
49	Alarm I/O Serial Port Built-in Mic	N/A N/A	
49 50 51 52	Alarm I/O Serial Port Built-in Mic Built-in Speaker	N/A N/A Support Support	
49 50 51	Alarm I/O Serial Port Built-in Mic	N/A N/A Support	
49 50 51 52 53	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI	N/A N/A Support Support	
49 50 51 52	Alarm I/O Serial Port Built-in Mic Built-in Speaker	N/A N/A Support Support N/A	
49 50 51 52 53	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032:	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3:	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3:	
49 50 51 52 53 54	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035:	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A 1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035:	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020)	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020) FCC (FCC CFR 47	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)	
49 50 51 52 53 54 55	Alarm I/O Serial Port Built-in Mic Built-in Speaker WIFI Network Video Output Certification	N/A N/A Support Support N/A  1 * RJ45 10M/100M Base-TX Ethernet N/A  CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014) CE LVD (EN 62368-	



. ———		1 4 004 ()	
		1:2014)	
		UL (UL 62368-1,	
		2nd Ed., Issue Date:	
		2014-12-01)	
		CE-RoHS	
58	Environment	(2011/65/EU;(EU)20	
		15/863)	
		IP67 (IEC	
		60529:1989+AMD1:	
59	Protection	1999+AMD2:2013)	
		IK10 (IEC	
		62262:2002)	
	General		
		DC 12V±25%, PoE	
00	Davis	(IEEE 802.3af)	
60	Power	Power consumption:	
		Max 5.0W	
	Power Interface	Ø 5.5mm coaxial	
61		power plug	
	5	Ф118 x 96mm	
62	Dimensions (Ø x H)	(Φ4.6" x 3.8")	
63	Weight	0.30kg (0.66lb)	
		-30°C ~ 60°C (-22°F	
	<u>-</u> .	~ 140°F), Humidity:	
64	Working Environment	≤95% RH (non-	
		condensing)	
		-30°C ~ 60°C (-22°F	
		~ 140°F), Humidity:	
65	Strorage Environment	≤95% RH (non-	
1		condensing)	
66	Surge Protection	4KV	
67	Reset Button	N/A	
01	1000t Dutton	2 Years	
		Comprehensive	
68	Warranty		
		replacement	
1		Warranty	

2.Nam	2.Name of the Equipment / Goods			4 MP Outdoor Bullet IP Camera	
Sr.No	General Specification	Technical Specification	Compliance (Yes/No)	Remark if any	
1	Sensor	1/3", 4.0 megapixel, progressive scan, CMOS			
2	Minimum Illumination	Colour: 0.003 lux (F1.6, AGC ON) 0 Lux with light			
3	Day/Night	IR-cut filter with auto switch (ICR)			
4	Shutter	Auto/Manual, 1 ~ 1/100000s			
5	Adjustment Angle	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotate: 0° ~ 360°			



6	S/N	>52dB	_
7	WDR	120dB	
	Lens		
8	Lens Type	2.8mm @F1.6	
9	Iris	Fixed	
10	Field of View (H)	112.9°	
11	Field of View (V)	59.1°	
12	Field of View (D)	121.2°	
	Illuminator		
13	IR Range	Up to 30m (98ft) IR range	
14	White Light Range	Up to 30m (98ft) white light range	
15	Wavelength	IR: 850nm	
16	IR On/Off Control	Auto/Manual	
	Video		
17	Video Compression	Ultra 265, H.265, H.264, MJPEG	
18	H.264 Code Profile	Baseline profile, Main profile, High profile	
19	Frame Rate	Main Stream: 4MP (2688*1520), Max 25fps;4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; 720P (1280*720), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360,Max 30fps;	
20	Video Bit Rate	128 Kbps~16 Mbps	
21	U-code	Supported	
22	OSD	Up to 4 OSDs	
23	Privacy Mask	Up to 4 areas	
24	ROI	Up to 8 areas	
25	Video stream	Dual streams	
26	White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2	
27	Digital Noise Reduction	2D/3D DNR	
28	Smart IR	Support	
29	Flip	Normal/Vertical/Hori zontal/180°/90°Cloc	



1	I	1 1 /0004 //
		kwise/90°Anti- clockwise
30	HLC	Supported
31	BLC	Supported
32	Defog	Digital Defog
	Events	
33	Basic Detection	Cross line, intrusion(based on human body detection),motion detection, Ultra motion detection, tampering alarm, audio detection
34	General Function	Watermark, IP address filtering, access policy, ARP protection, RTSP authentication, user authentication, HTTP authentication
	Audio	
35	Audio Compression	G.711U, G.711A
36	Audio Bitrate	64 Kbps
37	Two-way Audio	Support
38	Suppression	Support
39	Sampling Rate	8KHZ
	Storage	
40	Edge Storage	Micro SD, up to 128GB
41	Network Storage	ANR, NAS(NFS)
	Network	
42	Protocols	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL/TLS, 802.1x, SNMP
43	Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
44	User/Host	Up to 32 users. 2 user levels: administrator and common user
L	<u> </u>	



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45	Security	Password protection, Strong password, HTTPS encryption, Export operation logs, Basic and digest authentication for RTSP, Digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
46	Client	EZStation EZView EZLive
47	Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above Plug-in free live
48		view: Chrome 57.0 and above, Firefox 58.0 and above, Edge 16 and above
	Interface	
49	Audio I/O	N/A
50	Alarm I/O	N/A
51	Serial Port	N/A
52	Built-in Mic	Support
53	Built-in Speaker	Support
54	WIFI	N/A
55	Network	1 * RJ45 10M/100M Base-TX Ethernet
56	Video Output	N/A
	Certification	
57	EMC	CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)
58	Safety	CE LVD (EN 62368- 1:2014+A11:2017) CB (IEC 62368- 1:2014) UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01)



59	Environment	CE-RoHS (2011/65/EU;(EU)20 15/863);
60	Protection	IP67 (IEC 60529:1989+AMD1: 1999+AMD2:2013)
	General	
61	Power	DC 12V±25%, PoE (IEEE 802.3af) Power consumption: Max 7.5W
62	Power Interface	Ø 5.5mm coaxial power plug
63	Dimensions (L × W × H)	191×75×74mm (7.5"×2.9"×2.9")
64	Weight	0.41kg (0.90lb)
65	Working Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non- condensing)
66	Storage Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non- condensing)
67	Surge Protection	4KV
68	Reset Button	N/A
69	Warranty	3 Years Comprehensive replacement Warranty

3.Name of the Equipment / Goods 32 Channel Network V			Network Video Re	corder (NVR)
Sr.No	General Specification	Technical Specification	Compliance (Yes/No)	Remark if any
1	Decoding	Description		
1	Decoding Format	Ultra 265, H.265, H.264		
2	Decoding Capability	1 x 12MP@30, 2 x 4K@30, 5 x 4MP@30, 10 x 1080P@30, 16 x 720P@30		
3	Audio Compression	G.711A, G.711U		
	Network	Description		
4	Incoming Bandwidth	320Mbps		
5	Outgoing Bandwidth	320Mbps		
6	Remote Users	128		
7	Protocols	TCP/IP;P2P;UPnP;N TP;DHCP;PPPoE;H TTP;HTTPS;DNS;D DNS;SNMP;SMTP; RTSP		
8	Browser(Plugin)	Windows:IE(IE10/11), Firefox (version		



		52.0 and above),	
		Chrome(version 45	
		and above),	
		Edge(version 79 and	
		above)	
	Video/Audio Input	Description	
9	IP Video Input	32-ch	
10	RCA Audio Input	1-ch	
10	Video/Audio Output	Description	
	Video/Addio Odipai	HDMI:4K(3840x216	
		0)/30Hz,	
		1920x1080/60Hz,	
		1920x1080/50Hz,	
11	HDMI Output	1920x1080/30112, 1600x1200/60Hz,	
		1280x1024/60Hz,	
		1280x720/60Hz,	
		*	
		1024x768/60Hz	
		VGA:1920x1080/60	
		Hz, 1920x1080/50Hz,	
12	VGA Output		
		1280x1024/60Hz,	
		1280x720/60Hz,	
40	DCA Audia Outaut	1024x768/60Hz	
13	RCA Audio Output	1-ch	
14	Liveview Display	1/4/6/8/9/16	
15	Corridor Mode Screen	3/4/5/7/9/10/12/16	
	Two-way Audio	Description	
40	Two ways Audia	1-ch, RCA(Using the	
16	Two-way Audio	audio input and	
	Snapshot	output)  Description	
	Snapsnot		
17	FTP/Schedule/Event Snapshot	4-ch snapshot, up to D1 resolution	
	Recording	Description	
	Recording	8MP/6MP/5MP/4MP	
18	Recording Resolution	/3MP/1080P/960P/7	
10	Recording Resolution		
19	Cynobronous Playbook in Local	20P/D1/2CIF/CIF	
19	Synchronous Playback in Local	32-ch	
	Smart	Description Face	
		Detection; SIP (Intrusi	
		on Detection, Cross	
		Line Detection,	
20	VCA Detection by IDC	Enter Area, Leave	
20	VCA Detection by IPC	Area);Ultra Motion	
		Detection(UMD);Peo	
		ple Counting(People	
		Flow Counting,	
		Crowd Density	
		Monitoring)	
		Motor Vehicle	
04	VCA Coords	Search;Non-Motor	
21	VCA Search	Vehicle	
		Search; Human Body	
		Search;General	



		Search;People	
		Counting Report	
		Total 8-ch(Face	
22	Smart by IPC	Detection, SIP,	
	,	UMD)	
	Alarm	Description	
		Defocus	
		Detection;Scene	
		Change	
		Detection;Object	
		Left Behind;Object	
		Removed;Auto	
23	General Alarm	Tracking; Motion	
		Detection;Tampering	
		;Human Body	
		Detection;Video Loss;Alarm	
		Input;Audio	
		Detection	
		IP Conflict;Network	
		Disconnected; Disk	
		Offline;Disk	
		Abnormal;Illegal	
24	Alert Alarm	Access;Hard Disk	
		Space Low;Hard	
		Disk	
		Full;Recording/Snap	
		shot Abnormal	
	Hard Disk	Description	
25	SATA	4 SATA Interfaces	
		Up to 10TB for each	
		HDD(The maximum	
26	Capacity	HDD capacity varies with	
		environment	
		temperature)	
	External Interface	Description	
		2 RJ45	
07	Nativally listantas -	10M/100M/1000M	
27	Network Interface	self-adaptive	
		Ethernet Interface	
		Ethernet Interface Front panel: 1 x	
28	USB	Ethernet Interface Front panel: 1 x USB2.0;Rear panel:	
28	USB	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x	
		Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0	
29	RS232	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0	
29 30	RS232 Alarm In	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0 1 8-Ch	
29 30 31	RS232 Alarm In Alarm Out	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0 1 8-Ch 2-Ch	
29 30 31 32	RS232 Alarm In Alarm Out Power Supply	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0 1 8-Ch 2-Ch DC 12V/3.3A	
29 30 31 32 33	RS232 Alarm In Alarm Out Power Supply Power Switch	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0 1 8-Ch 2-Ch DC 12V/3.3A Support	
29 30 31 32 33 34	RS232 Alarm In Alarm Out Power Supply	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0  1 8-Ch 2-Ch DC 12V/3.3A Support Description	
29 30 31 32 33	RS232 Alarm In Alarm Out Power Supply Power Switch	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0  1 8-Ch 2-Ch DC 12V/3.3A Support Description -10 °C ~ 55 °C (14	
29 30 31 32 33 34 35	RS232 Alarm In Alarm Out Power Supply Power Switch Working Environment Working Temperature	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0 1 8-Ch 2-Ch DC 12V/3.3A Support Description -10 °C ~ 55 °C (14 °F ~ 131 °F)	
29 30 31 32 33 34	RS232 Alarm In Alarm Out Power Supply Power Switch Working Environment	Ethernet Interface  Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0  1 8-Ch 2-Ch DC 12V/3.3A Support Description -10 °C ~ 55 °C (14 °F ~ 131 °F) ≤ 90% RH (non-	
29 30 31 32 33 34 35	RS232 Alarm In Alarm Out Power Supply Power Switch Working Environment Working Temperature	Ethernet Interface Front panel: 1 x USB2.0;Rear panel: 1 x USB3.0, 1 x USB2.0 1 8-Ch 2-Ch DC 12V/3.3A Support Description -10 °C ~ 55 °C (14 °F ~ 131 °F)	



	Certification	Description		
38	Certification	CE;FCC;UL;		
		EN 55032: 2015, EN		
		61000-3-3: 2013, EN		
39	CE	IEC 61000-3-2:		
		2019, EN 55035:		
		2017		
		Part15 Subpart B,		
40	FCC	ANSI C63.4		
		2 Years		
		Comprehensive		
41	Warranty	replacement		
		Warranty		
4.Nam	e of the Equipment / Goods	TVarianty	8 TB Surveillance	Hard disks
		Technical	Compliance	Remark if
Sr.No	General Specification	Specification	(Yes/No)	any
1	Capacity	8 TB		
2	Туре	Internal		
3	Form Factor	3.5		
4	Interface	SATA 6 Gb/s		
5	Recording technology	CMR		
6	Cameras Support	Min 64		
7	Al Channels / Streams	Min 32		
8	Data Transfer Rate	Min 175 MB/s		
9	Cache	Min 256 MB		
10	Load/Unload Cycles	Min 600,000		
11	Workload Rate	Min 180 TB/year		
12	MTBF	Min 1,000,000 hours		
		3 Years		
40	Managata	Comprehensive		
13	Warranty	replacement		
		Warranty		
5.Nam	e of the Equipment / Goods		8-Port PoE	Switch
Sr.No	General Specification	Technical	Compliance	Remark if
01.110	General opecinication	Specification	(Yes/No)	any
		Min 8× 10/100/1000		
		Mbps RJ45 Ports		
1	Interfaces	(Auto		
		Negotiation/Auto		
		MDI/MDIX)		
2	PoE Ports	Min 8x PoE+ RJ45		
		Ports		
3	PoE Power	Min 120W		
4	PoE Standard	802.3at/af		
		IEEE 802.3, IEEE		
		802.3u, IEEE		
		802.3ab, IEEE		
5		802.3x, IEEE		
		802.3af, IEEE		
		802.3at, IEEE		
		802.1q,		
	Standards and Protocol Support	IEEE 802.1p		
6	Fans	Min 1x Fan		
7	Switching Capacity	Min 18 Gbps		
8	Packet Forwarding Rate	Min 14 Mbps		



9	MAC Address Table	Min 8K V4		
10	Packet Buffer Memory	Min 4 Mbit		
	•	Queue Weight		
		Config		
		Bandwidth Control		
		Min 16x IP		
		Interfaces Min 32x		
		Static Routing		
		DHCP Relay		
		Min 4K VLAN		
		Groups 802.1Q tag		
		VLAN		
11	Software Feature	802.1X Port based		
		authentication		
		IP/IPv6-MAC		
		Binding DHCP		
		Snooping		
		IP/Port/MAC based		
		access control		
		Automatic Device		
		Discovery		
		Network Monitoring		
		Event Warnings		
		Web-based GUI		
12	Management	Command Line		
'-	management	Interface (CLI)		
		SNMPv1/v2c/v3		
13	Mount Compatibility	Rack Mounted		
14	Power supply	Min 1x 100 to 240		
		VAC, 50 ~ 60 Hz		
4.5	A	Cables and		
15	Accessories	Standard		
		accessories		
		1 Year		
16	Warranty	Comprehensive replacement		
		Warranty		
6 Nam	e of the Equipment / Goods	vvairanty	8-Port Gigs	byte Switch
	• •	Technical	Compliance	Remark if
Sr.No	General Specification	Specification	(Yes/No)	any
		8 x	,	
		10/100/1000/Mbps		
1	Network Ports	RJ45 Ports AUTO		
		Negotiation/AUTO		
		MDI/MDIX		
2	Backplane Bandwidth	16GBPS		
3	Transmission Distance	100M		
4	Packet Forwarding Rate	11.9Mbps		
		Complies with		
5	Network Standard	IEEE802.3,		
3	I VOLVVOIR Standard	IEEE802.3u.IEEE80		
1	1	2.3ab standards.		
6	Switch Capacity	16GBPS		
7	Forwarding Mode	16GBPS Store and forward		
7 8	Forwarding Mode Network medium	16GBPS Store and forward RJ-45		
7	Forwarding Mode	16GBPS Store and forward		



10	Ethernet Port Light	8 leds		
11	LEDs Indicator	8 leds		
12	Surge Protection	2KV		
13	Lightning Protection	2KV		
14	Anti-thunder Level	2KV		
		0° ~ 40°C (32°F ~		
15	Operating Temperature	104°F)		
4.0	Q 11	10%~90% non-		
16	Operating Humidity	condensing		
17	Storage Temperature	-20°C ~ 70°C		
		5%~90% non-		
18	Storage Humidity	condensing		
10	Power Supply	5V DC /1A.		
20	Power Consumption	5W		
21	Dimensions	129.6*58.6*21.4mm		
22	Weight	79.5g		
	110.9.11	1 Year		
00	144	Comprehensive		
23	Warranty	replacement		
		Warranty		
7.Nam	e of the Equipment / Goods	, <b>,</b>	9U Network	Rack
	• •	Technical	Compliance	Remark if
Sr.No	General Specification	Specification	(Yes/No)	any
1	Rack Mount Size	9RU		
	De als Otass dans	DIN 41494 or		
2	Rack Standard	equivalent standard		
3	Frame	Steel		
A		\Malala al		1
4	Construction	Welded		
<u>4</u> 5	Standard Finish	Powder coated		
		Powder coated Welded to Frame		
5	Standard Finish	Powder coated		
5	Standard Finish	Powder coated Welded to Frame with Cable entry exit		
5	Standard Finish	Powder coated Welded to Frame with Cable entry exit cut outs		
5 6	Standard Finish  Top & Bottom Cover	Powder coated Welded to Frame with Cable entry exit cut outs Lockable		
5 6	Standard Finish  Top & Bottom Cover	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass		
5 6	Standard Finish  Top & Bottom Cover	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door		
5 6 7	Standard Finish  Top & Bottom Cover  Front Door	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel		
5 6 7	Standard Finish  Top & Bottom Cover  Front Door	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi		
5 6 7 8	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket		
5 6 7	Standard Finish  Top & Bottom Cover  Front Door	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator		
5 6 7 8	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse		
5 6 7 8	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs		
5 6 7 8 9	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off-		
5 6 7 8	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White		
5 6 7 8 9 10 11	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard		
5 6 7 8 9	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and		
5 6 7 8 9 10 11	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour  Accessories	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard		
5 6 7 8 9 10 11	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and Rack Screws, Nuts		e Phase UPS
5 6 7 8 9 10 11 12 8.Name	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour  Accessories  e of the Equipment / Goods	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and Rack Screws, Nuts	Compliance	Remark if
5 6 7 8 9 10 11 12 8.Name Sr.No	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour  Accessories  e of the Equipment / Goods  General Specification	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and Rack Screws, Nuts  Technical Specification		
5 6 7 8 9 10 11 12 8.Name Sr.No	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour  Accessories  e of the Equipment / Goods  General Specification  Main Input Voltage Range	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and Rack Screws, Nuts  Technical Specification 140-280 V	Compliance	Remark if
5 6 7 8 9 10 11 12 8.Name Sr.No	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour  Accessories  e of the Equipment / Goods  General Specification  Main Input Voltage Range  Main Output Voltage	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and Rack Screws, Nuts  Technical Specification 140-280 V 230 / 220 V	Compliance	Remark if
5 6 7 8 9 10 11 12 8.Name Sr.No	Standard Finish  Top & Bottom Cover  Front Door  Mounting Angle  Power Distribution Unit  Load Capacity  Colour  Accessories  e of the Equipment / Goods  General Specification  Main Input Voltage Range	Powder coated Welded to Frame with Cable entry exit cut outs Lockable Toughened Glass Door 19" Mounting angles made of formed steel Min 5x 6A Multi Standard Socket PDU with Indicator and 06 Amp Fuse Min 35kgs Grey & White / Off- White Standard accessories and Rack Screws, Nuts  Technical Specification 140-280 V	Compliance	Remark if



5	Rated power (VA)	Min 1000 VA		
6	Output connection type	Min 4x 6A Socket		
7	Cable Length	Min 1.2 Meter		
8	Battery type	Lead-acid non- Maintenance battery		
9	Battery voltage	24 V		
10	Battery capacity	Min 2x 7 Ah		
11	Battery Placement	In-Built		
12	Transfer time	Max 4ms		
13	Indicator	On Mains, Main Fails, On Battery, Fault, Overload		
14	Operating Temperature	Min 0 - 40 ° C		
15	Certification	BIS		
16	Accessories	Standard accessories and Cables		
17	Warranty	2 Years Comprehensive replacement Warranty including battery		
9.Nam	e of the Equipment / Goods		AT 6 UTP Cable B	ox 305 Meter
0	0	Technical	Compliance	Remark if
Sr.No	General Specification	Specification	(Yes/No)	any
Sr.No	Length	Specification Min 305 Meter	(Yes/No)	any
	•	Min 305 Meter 23 AWG Solid bare Copper (4 pair)	(Yes/No)	any
1	Length	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene	(Yes/No)	any
1 2 3 4	Length Standard Insulation Standard	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801	(Yes/No)	any
1 2 3 4 5	Length Standard Insulation Standard PoE Application Compatibility	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes		
1 2 3 4 5	Length Standard Insulation Standard	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes	(Yes/No)	
1 2 3 4 5	Length Standard Insulation Standard PoE Application Compatibility	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes 25mn	n PVC Conduit/Ca	asing 2 Meter
1 2 3 4 5 10.Nar	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes 25mn Technical	n PVC Conduit/Ca	asing 2 Meter Remark if
1 2 3 4 5 10.Nar Sr.No	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  Technical Specification	n PVC Conduit/Ca	asing 2 Meter
1 2 3 4 5 10.Nar Sr.No	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification Length	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  Technical Specification Min 2 Meter	n PVC Conduit/Ca	asing 2 Meter Remark if
1 2 3 4 5 10.Nar Sr.No 1 2	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  25mn Technical Specification Min 2 Meter ISI	n PVC Conduit/Ca	asing 2 Meter Remark if
1 2 3 4 5 10.Nar Sr.No 1 2 3	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor Colour	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  Technical Specification Min 2 Meter ISI White	n PVC Conduit/Ca Compliance (Yes/No)	Remark if any
1 2 3 4 5 10.Nar Sr.No 1 2 3	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  Technical Specification Min 2 Meter ISI White  21	n PVC Conduit/Ca	Remark if any
1 2 3 4 5 10.Nar Sr.No 1 2 3	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor Colour	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  25mn  Technical Specification Min 2 Meter ISI White  2" Technical	n PVC Conduit/Ca Compliance (Yes/No)  PVC Conduit/Cas Compliance	Remark if any sing 2 Meter Remark if
1 2 3 4 5 10.Nar Sr.No 1 2 3 11.Nar Sr.No	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor Colour me of the Equipment / Goods  General Specification	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  25mn  Technical Specification Min 2 Meter ISI White  2" Technical Specification	n PVC Conduit/Ca	Remark if any
1 2 3 4 5 10.Nar Sr.No 1 2 3 11.Nar Sr.No 1	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor Colour me of the Equipment / Goods  General Specification  Length Length Length Length Length Length Length	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  25mn  Technical Specification Min 2 Meter ISI White  Technical Specification Min 2 Meter  ISI White	n PVC Conduit/Ca Compliance (Yes/No)  PVC Conduit/Cas Compliance	Remark if any sing 2 Meter Remark if ary
1 2 3 4 5 10.Nar Sr.No 1 2 3 11.Nar Sr.No 1 2	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor Colour me of the Equipment / Goods  General Specification  Length Standard	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  Technical Specification Min 2 Meter ISI White  Technical Specification Min 2 Meter ISI White  Technical Specification Min 2 Meter ISI Specification Min 2 Meter ISI Specification Min 2 Meter ISI	n PVC Conduit/Ca Compliance (Yes/No)  PVC Conduit/Cas Compliance	Remark if any sing 2 Meter Remark if ary
1 2 3 4 5 10.Nar Sr.No 1 2 3 11.Nar Sr.No 1 2 3	Length Standard Insulation Standard PoE Application Compatibility me of the Equipment / Goods  General Specification  Length Conductor Colour me of the Equipment / Goods  General Specification  Length Length Length Length Length Length Length	Min 305 Meter 23 AWG Solid bare Copper (4 pair) High Density Polyethylene ISO/IEC 11801 Yes  25mn  Technical Specification Min 2 Meter ISI White  Technical Specification Min 2 Meter  ISI White	n PVC Conduit/Ca Compliance (Yes/No) PVC Conduit/Cas Compliance (Yes/No)	Remark if any sing 2 Meter Remark if ary

14.Nam	ne of the Equipm	ent / Goods	43" Android T\	/
Sr.No	General Specification	Technical Specification	Compliance (Yes/No)	Remark if any
1	Refresh Rate	60 Hz		
2	TV Operating System	Android TV		



3	Video Formats	MPEG2, MPEG4	
4	Screen Resolution	1920 x 1080 - FHD	
5	Screen Size (Diagonal)	109.22 cm - 43 inch	
6	Display Type	Full HD	
7	Stream Content from devices	Yes	
8	Connect to DVD Players via	HDMI	
9	Wi-Fi	Yes	
10	Additional Connectivity	Ethernet, AV, Optical, 3.5mm	
11	Audio Jack	3.5 mm	
12	No. of USB Ports	2	
13	No of HDMI Ports	2	
14	USB	Yes	
15	Connect to Home Theatre via	Digital Optical	
16	Power Consumption	75 Watt	
17	Power Supply	100 - 240V, 50/60Hz	
18	Features	Premium Metal Bezel-less Vivid Picture Engine DTS:X, DTS Virtual: X, Dolby Audio PatchWall 4 with IMDb Ratings Dual Band Wi-Fi (MIMO), Bluetooth 5.0 Ok Google, Chromecast built-in, Play Store In the box & Warranty	
19	TV Warranty	2 Year Comprehensive replacement Warranty	



S.No	Other requirements related to the equipment	NITT Requirement	Supplier commitment				
1.	Installation required	Yes					
2.	Warranty (in Month)	60 Months					
3.	Comprehensive AMC required	No					
4.	Delivery Period (Weeks)	2- 3 Weeks					
5.		Shipment terms	At NIT-T				
6.	Performa	ance Security in %	3%				
7.		Payment Terms	100% Payment after satisfactory delivery/Installation				
8.	EMI	O Amount (2 to 5)%	Rs. 5,000 /-				

### Signature & Seal of Vendor with Date

### Note:

Specification of the Supplier should be given in detail, single word confirmation like Complied / No / same will be treated as non - responsive Bid and summarily rejected.

Proof for the supplier's specification must be enclosed along with the quotations. (catalogue, brochure, and product website link if any)



#### ESTATE MAINTENANCE DEPARTMENT

**Annexure-II** 

#### PRICE BID FORMAT FOR BIDDERS

Quotation reference No. & Date: NITT/F.NO.037/CAP-EX(OH-35)/2024-25/EMD

Bidder's Offer No. & Date:

S. No.	Description of item	Unit (Set / No)	QTY	Rate / Qty in Rs.	(	GST in R	Total Value + GST in			
				(exclu ding GST)	ST		IGST	Rs.		
1.	Supply portion (The price indicated shall be exclusive of all accessories, spares etc. as given in the scope of supply)	Nos	<u>01</u>							
2.	Other accessories / spares etc. as given in scope of supply (Individual item-wise break-up price shall be attached as an annexure to this price bid format.)									
3.	Installation and Commissioning (extra, if any)		Yes							
4.	Packing & Forwarding any)	_	s (extra, if							
5.	Freight & Transit insura if any		rges, extra,							
6.	Total price									
7.	Value of Annual Maintenance Contract									
8.	Net cost to be paid by NIT-T									

Signature & Seal of Vendor

Note: The price quoted should be in Typed format only as per the above form. Hand written quotes will be rejected. No row shall be left blank, Kindly mention NA in case the item is "Not Applicable". If this format is not used or any column is left blank, then the bid will be rejected. AMC Value will not consider for arriving L1 bidder.



### (TO BE PRINTED IN LETTER PAD OF THE FIRM)

### **EMD Returning Form**

То
The Director
National Institute of Technology
Tiruchirappalli – 620 015

Sub: Returning EMD amount

Sir / Madam,

Our firm has participated in the tender / quotation enquiry No mentioned below and produced the EMD amount through DD, details of the DD are given below.

Tender / Quotation Reference No	
EMD amount	
DD Number	
DD issued Bank	
Date of DD	

It is requested to return the EMD amount to our firm after completion of the purchase to the below mentioned Bank account.

Account Name	
Bank Account Number	
IFSC code	
Bank	

Signature with Seal and Date



### (TO BE PRINTED IN LETTER PAD OF THE FIRM)

Annexure - IV

#### MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

То													Dat	te:	/	/				
Na	e Director, tional Institute o uchirappalli – 62			_		ladu	I													
Sı	ub : Authoriza Technolo Transfer	ogy,																		
1.	Name of the Pa	arty /	Firr	n /	Cor	npa	ny /	Ins	titut	е	:									
2.	Address of the	Party	y			-					:									
3.	CityPin Code																			
4.	E-Mail	Mo	bile	No	o:	_														
5.	Permanent Acc	count	Nu	mb	er_															
6.	Particulars of B	ank:																		
	Bank Name:							В	ran	ch N	lam	e:								
	PIN Code:					В	Branch Code:													
	IFS Code:(11	 11 digit alpha numeric co																		
	Account Type		Sa	vin	gs				Сι	ırrer	nt				Cash Credit					
	Account Number:											<u> </u>								
			I																	
						DE	CLA	AR/	ATIC	N										
t ii r t	hereby declare ransaction dela nformation I shate esponsible. I also facilitate upda ransfer.	ayed all no so un	an t ho nder	d r old [ tak	not Dire e to	effe ctor	ected , Na vise	d fortion	or r nal I / ch	eas nstit ang	ons tute e in	of of 7 the	inc Fech part	om inol ticu	pleto ogy lars	e o Tiru of r	r in uchi ny a	rap acco	rect palli ount	
F	Place:			Da	te:															

**Signature & Seal of the Authorized Signatory of the Party**