

Important: Bids should be forwarded by Bidders under their original memo / letter pad inter alia furnishing details like PAN number, TIN number, GST number, Bank address with EFT account if applicable, etc and complete postal & e- mail address of their office, else the bids will be summarily rejected.

AIR FORCE SCHOOL JAMMU
23 WING, AIR FORCE STATION, JAMMU

Tele: 0191-2956025 / 9055042588

Air Force School- Jammu
Air Force Station, Satwari
Jammu Cantt-180003

23W/1817/31/ED

May 22

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INVITATION OF BIDS FOR PROCUREMENT AND INSTALLATION OF
CCTV SURVEILLANCE SYSTEM

1. **Two bids in compliance with technical specifications (Technical Bid) and commercial quote (commercial bid) as listed in Part- II of this RFP & in Appendix- 'B' of this RFP are invited for procurement and installation of CCTV Surveillance system (IP based) listed in separate envelopes.** However, for convenience both envelopes (Technical bid and Commercial bid) may be put in single large envelope and dropped in Tender box or posted. Please super scribe the above mentioned Title, RFP number and date of opening of the Bids on the sealed cover to avoid the Bid being declared invalid.

2. The address and contact numbers for sending Bids or seeking clarifications regarding this RFP are given below-

- | | | |
|-----|---------------------------------------------|-----------------------------------------------------------------------------------------------------|
| (a) | Bids/queries to be addressed to: | Air Officer Commanding
Air Force Station Jammu,
C/O AF School Jammu
Satwari, J&K - 180003. |
| (b) | Postal address for sending the Bids: | Air Officer Commanding
Air Force Station Jammu,
C/O AF School Jammu
Satwari, J&K - 180003. |
| (c) | Name/Designation of the contact personnel: | Squadron Leader Pratish
Executive Director
AF School- Jammu |
| (d) | Telephone numbers of the contact personnel: | 0191-2956025 / 9055042588 |
| (e) | E-mail ID's of contact personnel: | afsjammu@gmail.com |

(f) Fax number:

Nil

3. This RFP is divided into five parts as follows:

(a) Part I : Contains General Information and Instructions for the Bidders about the RFP such as the time, place of submission and opening of tenders, validity period of tenders, etc.

(b) Part II: Contains essential details of the items/services required such as the Schedule of Requirements (SOR), Technical Specifications, Delivery Period, Mode of delivery and Consignee details.

(c) Part III: Contains standard conditions of RFP, which will form part of the contract with the successful Bidder.

(d) Part IV: Contains Special Conditions applicable to this RFP and which will also form part of the contract with the successful Bidder.

(e) Part V: Contains Evaluation Criteria and Format for Price Bids.

4. This RFP is being issued with no financial commitment and the Buyer reserves the right to change or vary any part thereof at any stage. Buyer also reserves the right to withdraw the RFP, should it become necessary at any stage.

(Pratish)
Squadron Leader
Executive Director
AF School- Jammu

Part I – General information

1. Last date and time for depositing the Bids: 17 May 2022, 1200 hrs.

The sealed bids (both technical and commercial in separate envelopes only in hard copies) should be deposited/reach by the due date and time. The responsibility to ensure this lies with the Bidder.

2. Manner of depositing the Bids: Sealed Bids should be either dropped in the tender box marked as **TENDER BOX FOR PROUREMENT AND INSTALLATION OF CCTV SURVEILLANCE SYSTEM AT AIR FORCE SCHOOL JAMMU** placed at Main Gate of Air Force Station Jammu or sent by registered post to Air Officer Commanding, Air Force Station Jammu, C/O AF School Jammu Satwari, J&K - 180003 so as to reach by the due date and time. Late tenders will not be considered. No responsibility will be taken for postal delay or non-delivery/non-receipt of Bid documents. Bids sent by FAX or e-mail will not be considered (unless they have been specifically called for by these modes due to urgency).

3. Time and date for opening of Bids: 1300 HRS on 17 May 2022 (If due to any exigency, the due date for opening of the Bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by the Buyer).

4. Location of the Tender Box: Main Gate, Air Force Station Jammu. Only those Bids that are found in the tender box will be opened. Bids dropped in the wrong Tender Box will be rendered invalid.

5. Place of opening of the Bids: Station Education Section, Air Force Station, Jammu the Bidders may depute their representatives, duly authorised in writing, to attend the opening of Bids on the due date and time. Rates and important commercial/technical clauses quoted by all the bidders will be read out in the presence of the representatives of all the bidders. This event will not be postponed due to non-presence of your representative.

6. Two-Bid system: Commercial Bids of only those firms will be opened, whose Technical Bids are found compliant/suitable after Technical evaluation is done by the Buyer.

7. Forwarding of Bids: Bids should be forwarded by Bidders under their original memo / letter pad inter alia furnishing details like GST number, Bank address with EFT Account if applicable, etc and complete postal & e-mail address of their office.

8. Clarification regarding contents of the RFP: A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the buyer in writing about the clarifications sought not later than 07 (S) days prior to the date of opening of the Bids. Copies of the query and clarification by the purchaser will be sent to all prospective bidders who have received the bidding documents.

9. Modification and withdrawal of Bids: A bidder may modify or withdraw his Bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to dealing prescribed for submission of Bids. A withdrawal notice may be sent by e-mail but it should be followed by a signed confirmation copy to be sent by post and such signed confirmation should reach the purchaser not later than the deadline for submission of bids. No bid shall be modified after the deadline for submission of Bids. No bid may be withdrawn in the interval between the deadline for submission of Bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security.

10. **Clarification regarding contents of the Bids:** During evaluation and comparison of bids, the Buyer may, at its discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the bidder will be entertained.

11. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection with forfeiture of EMD. Conditional tenders will be rejected.

12. **Unwillingness to quote:** Bidders unwilling to quote should ensure that intimation to this effect reaches before the due date and time of opening of the Bid, failing which the defaulting Bidder may be de-listed for the given range of items as mentioned in this RFP.

13. **Validity of Bids:** The Bids should remain valid till 120 DAYS from the last date of submission of the Bids.

14. **Earnest Money Deposit (EMD):**

(a) Bidders are required to submit EMD for amount of **₹.1,00,000/- (One lakh, only)** along with their bids in the name of **Chairman, School Management Committee**. The EMD may be submitted in the form of an Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the public sector banks or a private sector bank authorized to conduct government business as per Form DPM-16 (Available in MoD website and can be provided on request). EMD is to remain valid for a period of Sixty Days beyond the final bid validity period. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. The Bid Security of the successful bidder would be returned, without any interest whatsoever, after the receipt of Performance security from them as called for in the contract. EMD is not required to be submitted by those Bidders who are registered with the Central Purchase Organization (e.g. DGS&D), National Small Industries Corporation (NSIC) or any Department of MoD or MOD itself. The EMD will be forfeited if the bidder withdraws or amends, impairs or derogates from the tender in any respect within the validity period of their tender. **Vendors are requested to furnish the details of EMD in below mention space. The submission of the same will leads to rejection of bid.** **DETAILS OF EARNEST MONEY DEPOSIT (EMD)**

FDR/ BG NO	
EMD Amount	₹ 1,00,000/-
Issuing Bank/ Place	
Issued on Date	
Validity up to	

Note: EMD is to be submitted along with Technical Bid in a separate envelope and details to be mentioned clearly.

Part II – Essential Details of Items required

1. **Schedule of Requirements:** List of items/ Services required is as follows:

PROCUREMENT AND INSTALLATION OF CCTV SURVEILLANCE SYSTEM

S.No.	Item Name	Qty
1	NVR 32 Channel, H.265, IP 67, 2 HDD Bay Support upto 10 TB	8
2	IP Dome Camera 2.0 MP 30 Mtr HD IR	40
3	IP Bullet Camera 2.0 MP 50 Mtr HD IR	135
4	IP PTZ Camera 4 MP 30x WDR IR Network PTZ Camera- 150Mtr	2
5	HDD Surveillance 8 TB	16
6	Rack 32 U rack with 600X600 with PDU and Fan	1
7	LED TV 50 Inches	4
8	POE Switch 24-port giga managed POE switch with 2 SFP ports	4
9	Switch 16-port Giga POE switch with 180 watt power budget	6
10	Switch Gigabit 8 port POE switch with 2 SFP ports	5
11	24-port Unloaded Patch panel	10
12	Cat 6 toolless Information outlet	190
13	R&M 1 Mtr Cat 6 patch cord	190
14	9U rack wall mount with 450 MM depth	8
15	4 U wall mount rack	5
16	UPS Online UPS 20 KVA with Isolation (1 Hour Backup on Full Load) Including Full Accessories	1
17	Cat 6 Cable Fr-PVC with 69% NVP	14000
18	PVC 30 MM PVC Conduit Pipe per mtr	8000
19	Power Cable 2.5 MM Copper 3 Core sheath	400
20	Fibre 6 core armoured single mode fiber cable	200
21	LIU 6-port LIU with rack mount channel	3
22	Patch cord LC-SC-fiber patch cord	3

23	SFP Single mode fiber module	3
24	SC type fiber pigtail	12
25	SC type fiber adaptor	12

SCHEDULE OF REQUIREMENT (SOR): TECHNICAL SPECIFICATIONS OF CCTV SURVEILLANCE SYSTEM AND ITS ACCESSORIES

32CH Network Video Recorder with 2 Sata Ports

Feature	Specification	COMPLIANCE	
		YES	NO
Processor	Industrial-grade embedded processor		
IP Camera Input	32 channel		
Operating System	Embedded LINUX		
Operation Interface	Web/operating in local GUI		
Performance by Camera	8 channel		
AI Search by Camera	Search for pictures by channel, time and event type		
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard		
AI Search by Face Detection	Search for pictures by channel, time and face attributes		
Performance by Face Detection	4 channels		
Video Output	1 x VGA output, 1 x HDMI output, supports simultaneous video sources output for VGA and HDMI		
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG		
Performance by SMD Camera	12 channels		
AI Search by SMD Camera	Search by target classification (human, vehicle)		
Network Bandwidth	Access: 160 Mbps; Storage: 128 Mbps; Forward: 48 Mbps		
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080P; 720P; D1		
Decoding Capability	8 x 1080p@30fps		
Multi-screen Display	1 , 4, 8, 9, 16, 25, 32 views		
Third-party Camera Access	ONVIF; RTSP		
General Alarm	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm		
Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception		
Alarm Linkage	Recording, snapshot, local external alarm output, audio, buzzer, log, preset, and email		

Intelligent Alarm	Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms		
Audio Compression	PCM/G711A/G711U/G726/AAC		
Audio Input	1 × RCA input		
Audio Output	1 × RCA output		
Alarm Input	4 Channel		
Alarm Output	2 Channel		
Record Mode	Manual record; alarm recording; SMD recording; smart recording		
Smart Phone	iPhone, iPad, Android Phone		
Hard Disk	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature		
Disk Group	Yes		
Multi-channel Playback	Up to 16 channels for playback		
Playback Function	Play/pause/stop/slow/quick/backward/by frame Full screen, backup (video clip/file), partial zoom in, and audio on/off		
Storage	Local HDD; network		
Backup	USB storage device		
Interface Ports	2 USB Ports (1 × front USB2.0; 1 × back USB2.0)		
Ethernet	1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port		
Protocols	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search, P2P, auto register, ONVIF (profile T/S/G); CGI; SDK		
Power Supply	12 V DC, 4 A		
Power Consumption	< 5.6 W (HDD not included, idling)		
Working Temperature	-10°C to +55°C (+10 °F to +131 °F)		
Storage Temperature	0 °C to +40 °C (32 °F to 104 °F)		
Storage Humidity	30%~85%		
Operating Humidity	10%~93%		

2MP Full HD IR Network Dome Camera - 30Mtr.

Feature	Specification	COMPLIANCE	
		YES	NO
Image Sensor	1/2.8" 2MP PS CMOS Image Sensor		
Minimum Illumination	0.01Lux@F2.0		
Effective Pixels	1920(H)x1080(V)		
BodyType	Dome		
Shutter Speed	Auto/Manual, 1/3~1/100000s		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Lens	3.6mm fixed lens (2.8mm optional)		
Max Aperture	F2.0		
Gain Control (AGC)	Auto/Manual		

Lens Type	Fixed		
S/N Ratio	>56dB		
DORI Distance	3.6mm– 49.7m (Detect) 19.9m (Observe) 9.9m (Recognize) 5m (Identify) 2.8mm– 38.6m (Detect) 15.4m (Observe) 7.7m (Recognize) 3.9m (Identify)		
Video Compression	H.265+/H.265/H.264+/H.264H/H.264B/MJPEG		
Angle of View	3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100° 2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal: 120°		
Back Light Comp.	BLC/ HLC/ DWDR		
Frame Rate	Main Stream: 1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)		
Resolution	2MP (1920 × 1080); 1.3MP (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Motion Detection	Off / On (4 area, Rectangle)		
Privacy Mask	4 areas		
ICR	Auto(ICR)/Color/B/W		
ROI	Yes (4 areas)		
Bit Rate	H.265: 12 Kbps–6144 Kbps H.264: 32 Kbps–6144 Kbps		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; ONVIF (Profile S/Profile T); CGI; P2P; Genetec		
Ethernet	RJ-45 (10/100Base-T)		
User Account	6 Users		
IR Range	IR Range of 30 Mtr., Smart IR		
Operating Temperature	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%		
Power Source	DC12V, PoE (802.3af)		
Power Consumption	1.4W (12V DC); 2.2W (PoE)		
Weatherproof Standard	IP67		
Casing	Metal + Plastic		

2MP Full HD IR Network Bullet Camera - 50Mtr.

Feature	Specification	COMPLIANCE	
		YES	NO
Image Sensor	1/2.8" 2MP Progressive scan CMOS		
Minimum Illumination	0.01Lux@F2.0		
Effective Pixels	1920 (H) x 1080 (V)		
BodyType	Bullet		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Lens	3.6mm (6mm Optional)		
Iris	Fixed		
Close Focus Distance	2.8mm: 0.8m ; 6mm: 2.2m		

S/N Ratio	>56dB		
Gain Control (AGC)	Auto/Manual		
Shutter Speed	Auto/Manual, 1/3~1/100000s		
Video Compression	H.265+/H.265/H.264+/H.264/H.264B/MJPEG (only supported by the sub stream)		
Max Aperture	F2.0		
Angle of View	3.6mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100° 6mm: Horizontal: 53°; Vertical: 30°; Diagonal: 60°		
Lens Type	Fixed-focal		
Back Light Comp.	BLC/ HLC/ DWDR		
Frame Rate	Main Stream: 1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)		
DORI Distance	3.6mm- 49.7m (Detect) 19.9m (Observe) 9.9m (Recognize) 5.0m (Identify) 6mm- 82.8m (Detect) 33.1m (Observe) 16.6m (Recognize) 8.3m (Identify)		
Resolution	1080P (1920 × 1080); 1.3MP (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640× 480); CIF (352 × 288/352 × 240)		
Motion Detection	OFF/ON (4 areas, rectangular)		
Privacy Mask	4 areas		
ICR	Auto(ICR)/Color/B/W		
ROI	Yes (4 areas)		
Bit Rate	H.264: 32 Kbps–6144 Kbps ; H.265: 12 Kbps– 6400 Kbps		
Audio	Built-in Mic		
Audio Compression	G.711A; G.711Mu; G.726; PCM		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast, ONVIF (Profile S/Profile T); CGI; InstaOn; Genetec		
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; safety exception		
Ethernet	RJ-45 (10/100Base-T)		
User Account	6 (Total bandwidth: 36 M)		
IR Range	IR Range of 50 Mtr., Smart IR		
Operating Temperature	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH		
Power Source	DC12V, PoE (802.3af)		
Power Consumption	1.5W (12V DC); 2.3W (PoE)		
Weatherproof Standard	IP67		
Casing	Metal + plastic		

4 MP 30x WDR IR Network PTZ Camera- 150Mtr.

Feature	Specification	COMPLIANCE	
		YES	NO

Image Sensor	1/3" PS CMOS		
Effective Pixels	2592(H) x 1520(V), 4 Megapixels		
Resolution	4MP		
S/N Ratio	More than 55dB		
Minimum Illumination	Color: 0.01Lux@F1.6; 0Lux@F1.6 (IR on)		
Focal Length	4.5mm~135mm		
White Balance	Auto, ATW, Indoor, Outdoor, Manual		
Focus Control	Auto / Manual		
Angle of View	H: 60° ~ 2.2°		
AGC Control	Auto / Manual		
Back Light Compensation	BLC / HLC / WDR(120dB)		
Optical Zoom	30x		
Digital Zoom	16x		
Pan Travel	0°~360° endless, Pan Speed: 0.1° ~ 300°/sec		
Tilt Travel	-15° ~ 90° auto flip 180°, Tilt Speed: 0.1° ~200°/sec		
Manual Speed	Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s		
Presets	300		
Preset Speed	Pan: 400° /s; Tilt: 300° /s		
Special Features	Defog, EIS, IR Range upto 150m, Up to 300 Presets, 5 Pattern, 8 Tour, Auto Pan , Auto Scan		
Power up Action	Auto restore to previous PTZ and lens status after power failure		
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
Day/Night: IR Cut Filter	Auto(ICR) / Color / B/W		
Video Compression	H.265+/H.265/H.264+/H.264		
Video Streaming	Main stream: 4MP/3MP(1 ~ 25/30fps) , Sub stream1: D1/CIF(1 ~ 25/30fps), Sub stream2: 4MP/1080P/1.3MP/720P/D1/ CIF (1 ~ 25/30fps)		
Motion Detection	Support		
ROI	Support		
Audio Streaming	1/1 channel In/Out		
Networking	RJ-45 (10/100Base-T)		
IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map		
Protocols	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x, ONVIF, PSIA, CGI		
Alarm	2/1 channel In/Out		
IR Range	150 Mtr.		
Operating Temperature	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH		
Memory	Micro SD card 128GB		
Weatherproof Standard	IP66		

Power Source	AC24V/3A(±10%), PoE+(802.3at)		
Power Consumption	13W,23W (IR on)		

24 Port POE Switch
24-port 1000base-T Gigabit PoE Smart Switch

Feature	Specification	COMPLIANCE	
		YES	NO
Physical Specifications	24 # 10/100/1000 Base-T auto-sensing PoE+ ports, 02 # 100/1000/10GBASE-T RJ45 Ports, 02 # 1000/10GBASE-X SFP+ ports 1 RPS Connector		
	1 USB Storage (image, config,log files)		
CPU/Memory	CPU: 800 MHz,RAM: 512 MB,Packet buffer memory: 32 MB,Flash: 128 MB		
Performance Specification	Stack height: 6 switches,Bandwidth: 128 Gbps non-blocking		
	Throughput : 95.2 Mpps,Acoustic noise (ANSI-S10.12): 36.8dBA,Mean Time Between Failures (MTBF): 147,965 hours		
	Forwarding modes: Store-and-forward,8 Priority queues		
	Priority queuing: Weighted Round Robin (WRR)		
	MAC Address database size: 16,000 media access control (MAC) addresses		
	VLAN: 256,1,024 Multicast Groups,32 Static Routes,15 Routed VLANs		
	512 ARP Cache entries,8K DHCP snooping bindings		
	100 shared for MAC, IP and IPv6 ACLs		
	Jumbo frame: 9K		
IEEE Network Protocols	IEEE 802.3 Ethernet,IEEE 802.3i 10BASE-T,IEEE 802.3u 100BASE-T,IEEE 802.3ab 1000BASE-T		
	IEEE 802.1Q VLAN Tagging,IEEE 802.3x Full-Duplex Flow Control,IEEE 802.1Qav1		
	IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX,IEEE 802.3ae 10-Gigabit Ethernet Over Fiber (10GBASE-SR,10GBASE-LR, 10GBASE-ER, 10GBASE-LX4),IEEE 802.3an 10GBASE-T 10 Gbit/s Ethernet Over Copper Twisted Pair Cable		
	IEEE 802.3ad Trunking (LACP),IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED),IEEE 802.1p Class of Service,IEEE 802.1Qat1,IEEE 802.1D Spanning Tree (STP)		
	IEEE 802.1s Multiple Spanning Tree (MSTP),IEEE 802.1w Rapid Spanning Tree (RSTP),IEEE 802.1x RADIUS Network Access Control,IEEE 802.1BA1,IEEE 802.1AS1		
Power Consumption	When all ports used, Line-Rate Traffic and Max		

	PoE: 748.18W		
	PoE budget: 195W		
Network Security and Traffic	IEEE 802.1x,Guest VLAN,RADIUS based VLAN assignment via .1x,MAC-based .1x		
	RADIUS accounting,Network Storm Protection,Broadcast, Unicast, Multicast Protection,Access Control Lists (ACLs) L2 / L3 / L4,IP-based ACLs (IPv4 and IPv6)		
	MAC-based ACL,TCP/UDP-based ACL,MAC lockdown,MAC lockdown by the number of MACs,IEEE 802.1x Radius Port Access Authentication		
	Port Security,PoE Timer		
QUALITY OF SERVICE (QOS)	Access Lists		
	L2 MAC, L3 IP and L4 port ACLs,Port-based rate limiting : Egress only,Port-based QoS,Support for IPv6 fields,DiffServ QoS,IEEE 802.1p COS,Destination MAC and IP,IPv4 and v6 DSCP,TCP/UDP-based		
	WRR (Weighted Round Robin),Strict priority queue technology		
	Timing and Synchronization for Time-Sensitive Applications (IEEE 802.1AS),Stream Reservation Protocol (SRP) (IEEE 802.1Qat),Forwarding and Queuing for Time-Sensitive Streams (IEEE 802.1Qav),Audio Video Bridging Systems (IEEE 802.1BA)		
	Auto-VoIP : Yes, based on protocols (SIP, H323 and SCCP) or on OUI bytes (default database and user-based OUIs) in the phone source MAC address		
	Auto-Video		
L2 SERVICES - VLANS	IEEE 802.1Q VLAN tagging,IP-based VLANs,MAC-based VLANs		
	Auto-Voice VLAN : Based on phones OUI bytes (internal database, or user-maintained) or protocols (SIP, H323 and SCCP)		
	Auto-Video VLAN		
L2 SERVICES - AVAILABILITY	IEEE 802.3ad - LAGs,Broadcast storm control		
	IEEE 802.3x (full duplex and flow control)		
	IEEE 802.1D Spanning Tree Protocol		
	IEEE 802.1w Rapid Spanning Tree Protocol		
	IEEE 802.1s Multiple Spanning Tree Protocol		
	BPDU guard		
L2 SERVICES - MULTICAST FILTERING	IGMP snooping (v1, v2 and v3),MLD snooping support (v1 and v2),IGMP snooping queries,Block unknown multicast		
	Multicast VLAN Registration (MVR)		
L3 SERVICES - DHCP	DHCP Client,DHCP Snooping,DHCP relay		
L3 SERVICES - IPV4	Static routing		

ROUTING			
	Host ARP table		
	Router Discovery(IRDP)		
LINK AGGREGATION	IEEE 802.3ad - LAGs		
	Manual LAG		
	# of LAGs / # of members in each LAG : 26 LAGs with max 8 members in each LAG		
STACKING	Stacking Interface : 10G SFP+ or 10GBASE-T copper (both at 10G speeds only)		
	Max. number of switches within a stack : up to 6		
	Stacking bandwidth : 40G bi-directional		
Network Monitoring and Discovery Services	802.1ab LLDP,SNMP V1, V2, V3,RMON 1,2,3,9		
Management	Password management,Configurable Management VLAN,Admin access control via Radius and TACACS+,Web-based graphical user interface (GUI),Smart Control Center (SCC) for multiswitch management,IPv6 management		
	IPv6 management,Dual Soft ware (fi rmware) image,Dual Confi guration fi le,SNTP client over UDP port 123,SNMP v1/v2,SNMP v3 with multiple IP addresses		
	RMON 1,2,3,9,Port Mirroring,Many to One Port Mirroring,Cable Test utility,SSL/HTTPS and TLS v1.0 for web-based access,TFTP/HTTP File transfers (uploads, downloads)		
	HTTP Download (firmware),USB port for firmware and config upload/download		
	Syslog (RFC 3164)		
LEDs	Per port: Speed, Link, Activity		
	Per device: Power, Fan and PoE Power Status		
Environmental Conditions	Operating Temperature: 32° to 122°F (0° to 50°C)		
	Altitude: 10,000 ft (3,000 m) maximum		
	Storage Temperature: – 4° to 158°F (–20° to 70°C)		
	Humidity: 95% maximum relative humidity, non-condensing		
Certifications	CE mark, commercial		
	FCC Part 15 Class A, VCCI Class A,Class A EN 55022 (CISPR 22) Class A,Class A C-Tick		
	EN 50082-1,EN 55024		
	CCC,CSA certifi ed (CSA 22.2 #950),UL listed (UL 1950)/cUL IEC 950/EN 60950		
Warranty	Lifetime Warranty		

8 Port POE Switch Unmanaged

8-port 10/100/1000 Base-T PoE+ Managed Switch with Fiber Uplinks

Feature	Specification	COMPLIANCE	
		YES	NO
Physical Interface	8 # 10/100/1000 Mbps Base-T auto-sensing PoE+ (190W) ports		
	2 # 1000 Base-X SFP uplink ports		
	Rackmount through Rack-mount kit, Internal Power Supply		
	CPU:400 MHz Cortex-A9 Single Core,512MB RAM,16MB SPI + 256MB NAND FLASH,Internal Fixed Fan		
Network Protocol and Standards	IEEE 802.3 10BASE-T,IEEE 802.3u 100BASE-TX,IEEE 802.3ab 1000BASE-T,IEEE 802.3z 1000BASE-X		
	IEEE 802.3x full-duplex flow control,IEEE 802.3af,IEEE 802.3at (Power over Ethernet Plus),IEEE 802.3ad Link Aggregation (manual or LACP),IEEE 802.1D Spanning Tree Protocol (STP),IEEE 802.1w Rapid Spanning Tree Protocol (RSTP),IEEE 802.1s Multiple Spanning Trees Protocol (MSTP),IEEE 802.1ab Link Layer Discovery Protocol (LLDP),IEEE 802.1p Class of Service (CoS),IEEE 802.1Q static VLAN,IEEE 802.1x		
Performance	Forwarding modes: Store-and-forward,Bandwidth: 20 Gbps full duplex,Buffer memory: 1.5 MB		
	Address database size: 16k media access control (MAC),Mean time between failures (MTBF): 1,509,979 hours		
Other Requirements	IEEE 802.1Q static VLAN (64 groups, static),Multicast groups : 512,Number of IPv4 static routes: 32,Number of IPv6 static routes: 32		
	Port-based QoS		
	Number of VLANs: 256		
	Number of ARP cache entries:479 ARP / 223 NDP		
	Number of DHCP snooping bindings: 8K		
	Access Control Lists (ACLs): 100 shared for MAC, IP and IPv6 ACLs		
	Packet forwarding rate 64 Bytes: 14.88 Mpps		
	DSCP-based QoS		
	Jumbo frame support: Upto 9k		
	Acoustic noise level @ 25°C: 32 dBA		
	DiffServ,LLDP-MED		
	SNMP v1, v2c, v3		
	RFC 1213 MIB II,RFC 1643 Ethernet Interface MIB,RFC 1493 Bridge MIB		
	RMON group 1, 2, 3, 9,RFC 2131 DHCP client		
	Voice VLAN,Auto-VOIP,DHCP Filtering		
	Auto denial-of-service (DoS) protection		
	HTTP and HTTPS		

	Energy Efficient Ethernet (IEEE 802.3az) for maximum power savings		
	Cable test		
	IEEE 802.1x with Guest VLAN,IEEE 802.1Q VLAN tagging		
	Port-based security by locked MAC addresses		
	MAC and IP-based ACL		
	Storm control for broadcast, multicast and unknown unicast packets		
	Block unknown multicast		
	ICMP Router Discovery Protocol (IRDP)		
	Number of IP VLAN interfaces (routed VLANs): 15		
	Layer 2 DHCP Relay		
	IGMP snooping v1/v2/v3		
	Protected Port,Port-based ingress and egress rate limiting		
	Weighted Round Robin (WRR)		
	Strict priority queue technology		
	SNTP client over UDP port 123		
	Port mirroring support (many-to-one)		
	Web-based configuration		
	Smart Control Center (SCC) for multi-switch management		
	Dual software (firmware) image		
	Password access control		
	TACACS+ and RADIUS support		
	TLS Web-based access (version): V1.0		
	Syslog		
	DHCP snooping		
	Firmware upgradeable		
Power Specifications	PoE budget: PoE+ (190 W)		
	Max Power consumption: 225 W		
	Heat Dissipation: 768.15 BTU/hr		
	100-240VAC/50-60-Hz universal input		
Environmental Specifications	Operating temperature: 0° to 50°C ,Storage temperature: -4° to 158° F (-20° to 70° C)		
	Operating humidity: 90% maximum relative humidity, non-condensing		
	Altitude 10,000ft (3,000m) maximum		
	Storage humidity: 95% maximum relative humidity, non-condensing		
Certifications	CE EN 55022, EN 61000 and EN 55024,CE mark, commercial		
	FCC Part 15 Class A, VCCI Class A,Class A EN 55022 (CISPR 22) Class A		
	C-Tick,UL/cUL 60950-1,CE EN 60950-1		
	47 CFR FCC Part 15, SubpartB, Class A,ICES-003: 2016 Issue 6, Class A		
	ANSI C63.4:2014,CCC		

	IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013,AN/NZS CISPR 22:2009+A1:2010 CLASS A		
	CB,KCC		
Status LEDs	Per port: Link/activity, speed,Per device: Power, Fan, PoE Max,Per PoE port: PoE Power, PoE fault		
Warranty and Support	Lifetime Hardware replacement warranty*,Lifetime Chat and e-mail Technical Support,Lifetime free latest firmware support		

16 Port POE Switch

16-port 10/100/1000 Base-T PoE+ Managed Switch with Fiber Uplinks

Feature	Specification	COMPLIANCE	
		YES	NO
Physical Interface	16 # 10/100/1000 Mbps Base-T auto-sensing PoE+ (183W) ports		
	2 # 1000 Base-X SFP uplink ports		
	Rackmount through Rack-mount kit,Internal Power Supply		
Network Protocol and Standards	IEEE 802.3 Ethernet • IEEE 802.3u 100BASE- TX • IEEE 802.3ab 1000BASE-T • IEEE 802.1p Class of Service • IEEE 802.3az Energy Effi cient Ethernet (EEE) • IEEE 802.3i 10BASE-T Ethernet • IEEE 802.3x Flow Contro		
Quality of Service (QoS)	DSCP Yes IEEE 802.1p COS Yes Queue WRR Ratio 1:3:5:7:8:10:12:15 Weighted Fair Queue (WFQ		
Performance	Forwarding modes: Store-and- forward,Bandwidth: 32 Gbps full duplex,Buffer memory: 1MB		
	Address database size: 4k media access control (MAC),Mean time between failures (MTBF): 2,088,514 hours		
Other Requirements	DSCP-based QoS		
	Jumbo frame support: Yes		
	Acoustic noise level @ 25°C: 0dBA		
Power Specifications	PoE budget: PoE+ (183 W)		
	Max Power consumption: 200 W		
	Heat Dissipation:680.58 BTU/hr		
	100-240VAC/50-60-Hz universal input		
Energy Effi cient Ethernet (EEE) IEEE 802.3az	Yes		
Environmental Specifications	Operating temperature: 0° to 50°C ,Storage temperature: -4° to 158° F (-20° to 70° C)		
	Operating humidity: 90% maximum relative humidity, non-condensing		
	Altitude 10,000ft (3,000m) maximum		
	Storage humidity: 95% maximum relative humidity, non-condensing		

Certifications	47 CFR FCC Part 15, SubpartB, Class A ICES-003:2016 Issue 6, Class A ANSI C63.4:2014 55032:2012+AC:2013, Class A EN 55024:2010 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 AS/NZS CISPR 32:2015, Class A VCCI-CISPR 32:2016, Class A KN 35 CNS 13438 Electromagnetic Compliance Class A, CB. IEC 60950-1:2005(ed.2) + A1:2009 + A2:2013, UL/cUL Listed; UL60950-1, 2nd Ed. 2014; CAN/CSA C22.2 No. 60950-1-07, 2nd Ed. 2014EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 AS/NZS 60950.1:2015 KN 32CNS 14336-1		
Status LEDs	Per port: Link/activity, speed,Per device: Power, Fan, PoE Max,Per PoE port: PoE Power, PoE fault		
Warranty and Support	Lifetime Hardware replacement warranty*,Lifetime Chat and e-mail Technical Support,Lifetime free latest firmware support		
CAT 6 Cable	Cat 6 UTP Cable		
	Transmission frequency of 250 MHz (Minimum)		
	Should be 4 pair		
	Cable should be Fire Retardant		
	NVP of cable should be 69%.		
Fiber Cable	OFC Armoured outdoor SINGLE MODE 6 CORE - OS2 type fibre with 1500N turnstile strength.		

LIU 6/24/48 port with Splice tray

Feature	Specification	COMPLIANCE	
		YES	NO
Material	Metal sliding style Loaded as per design for 6/24/48 Fiber		
ports	6/24/48		
Conector type	LC type		
Internal accessories	Spliceing Spindle for core management		
General Specs	All Fiber and copper cabling should be from same OEM and should have minimum25 years of application waranty		

Fiber Pigtail LC type

Feature	Specification	COMPLIANCE	
		YES	NO
Cable type	Pigtail with semi-tight buffer PA/PBT, Ø 0.9 mm, Green, Singlr Mode G652.D 9/125 µm (OS2), length 1.5 m		
Type	Zirconia (ceramic) ferrule with a PC polished endface geometry, connector qualified in acc. with IEC 61753-1 for category U (uncontrolled environment). and qualified in acc. with IEC 61753-1		

General Specs	All Fiber and copper cabling should be from same OEM and should have minimum 20/25 years of application warranty		
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Fiber Patch Cable 2 Mtr

Specification	COMPLIANCE	
	YES	NO
Single-mode category Jacket should be LSZH sheath, Connector: Zirconia ceramic ferrule, Conector type Duplex SC-LC with for SFP connectivity.		

9U Network Rack

Feature	Specification	COMPLIANCE	
		YES	NO
Dimensions	550 X 480		
Basic Frame	Steel		
Construction	Welded / CKD		
Top & Bottom Cover	Welded to Frame with Cable entry exit cut outs		
Front Door	Lockable Toughened Glass Door		
19" Mounting Angle	Formed Steel		
Std. Equipment Mounting	DIN Std. 10mm Sq. Slots		
Standard Finish	Powder coated		
Standard Colour	Grey & Off White OR Black		
Rack Standard	Conforms to DIN 41494 or equivalent standard		
Static Load	30Kg		
Accessories	19" mountable socket strips with 6 nos of 5A universal sockets with 2 mts long power chord.		

32U Network Rack

Feature	Specification	COMPLIANCE	
		YES	NO
Dimensions	600 X 600		
Basic Frame	Steel		
Construction	Welded		
Top & Bottom Cover	Welded to Frame with Cable entry exit cut outs		
Front Door	Lockable Toughened Glass Door		
Rear Door	Lockable Steel Door		
19" Mounting Angle	Formed Steel		
Std. Equipment Mounting	DIN Std. 10mm Sq. Slots		
Standard Finish	Powder coated		
Standard Colour	Grey & Off White OR Black		
Standard Mounting	Caster wheels (2 with Brake & 2 without Brake)		
Rack Standard	Conforms to DIN 41494 or equivalent standard		
Static Load	150Kg		
Accessories	19" mountable socket strips with 6 nos of 5A universal sockets with 2 mts long power chord.		

55 Inch Professional Display

Feature	Specification	COMPLIANCE	
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		YES	NO
Diagonal Size	55		
Panel Type	Edge LED BLU		
Resolution	UHD (3840 x 2160)		
Brightness	350nit		
Contrast Ratio	4000:01:00		
Viewing Angle(H/V)	178:178		
Response Time	8ms		
Display Colors	1.07 Billion		
Color Gamut	72%		
Dynamic C/R	MEGA		
Audio	Built in Speaker(10W + 10W)		
INPUT Type	DVI-D,HDMI 2.0 X 2, USB 2.0 x 1 , Audio Input X 1		
OUTPUT Type	Stereo Mini Jack		
Duty Cycle	16 x 7		
Special features	Temperature Sensor, Pivot Display, IP5x Rating, Wireless Mirroring, 8GB internal memory		
Logo	Should have Customized Logo when no signal is active		
File support	Direct viewing of PPT, Word ,PDF, Images and video from pen drive		
Remote Controlling of device	Laptop / Desktop Should be controlled remotely by external Keyboard and mouse through display		
EXTERNAL CONTROL	RS232C(in) thru stereo jack, RJ45, IR		
Power Consumption	130		
Standby Mode Power	less than 0.5W		
VESA Mount	200*200mm		
Operating Temperature	0 C- 40 C Degree		
Humidity	10~80%		
Safety	CE, FCC, Energy Star 8.0, BIS		

20 KVA Online UPS

Feature	Specification	COMPLIANCE	
		YES	NO
UPS Capacity & Configuration	20 KVA / 20 KW 3 Phase 50 C/S, Stand Alone,		
Operating mode	VFI / VFD		
Battery Details	12V SMF, 28800 VAH, 0.8 PF		
Input Supply + Variation	380/400/415V AC		

Output Supply + Variation	50/60 Hz (40-70 Hz)		
Input power factor	3 phase 4 wire connection		
Technology	380/400/415V AC +/-5%		
Duty condition	50/60 Hz		
Overload Capacity	0.99		
Static Switch	True on-line double conversion IGBT based PFC rectifier and IGBT based PWM inverter (3 level inverter preferred)		
Output load unbalancing capability	UPS should be able to operate at up to 40 deg C		
Power walk in (time required for UPS to take rated load at the time of starting)	~1 hr. for 10% and at least 30 min at 50% overload		
Crest factor	Bypass path and Output path Static Switch for transferring the load to the input source during clearing overloads that exceeds the capability of power electronics Special Hybrid bypass transfer switch is used (Make before brake technology). Bypass Switch shall be 3P Automatic to make it adaptable to all kind of earthing system (TN, TT & IT)		
Noise level	100% unbalanced non-linear load, distortion <2% for linear load &<3% for 100% non-linear load		
Output Power Factor	1 Sec. through 30 Seconds (every 1 Second selectable (0-100% rated loads) Default setting 20 seconds.		
Overall efficiency at 100% load	03:01		
Form Factor	<60 dBA		
Charger Capacity	~1.0 (Unity)		
Display	95%		
Event Log	Rack & Tower mountable.		
System Working	Minimum 20% of output power		
Certification	Separate Mimic Panel & LCD display		
Warranty	Minimum 50-time stamped events logged		
	The unit should be able to work without the batteries connected to it.		
	ISO 50001, 14001 (Required with compliance sheet)		
	Warranty 2 years comprehensive along with batteries.		

**MINIMUM ELIGIBILITY CRITERIA OF OEM
FOR CCTV SURVEILLANCE SYSTEM**

(i) All the CCTV components should be from reputed OEM. OEM should be registered in India from last 10 (ten) years and should have manufacturing plant in India.

- (ii) Any representation through a Dealer / Distributor / Joint venture / Consortium / Subsidiary shall not be treated as OEM. This has to be supported by necessary statutory documents.
- (iii) The OEM of the IP camera, storage, software and network switches should not be black listed or banned by any country or government department in any country.
- (iv) The OEM should not have any cheating or fraud case filed against their company for their respective product line.
- (v) All the Cameras, NVR etc should be from same OEM for seamless integration and ease of operation.
- (vi) The OEM should have an average turnover of ₹. 500 crores during the last 03 financial year.
- (vii) The OEM should have CMMI-5, GDPR & ISO 27032: 2012.
- (viii) The OEM should have ISO 27001: 2013, ISO 9001:2015 and ISO 14001:2015 certificate for manufacturing of Cameras & NVRs.
- (ix) All the CCTV products offered in the project should be UL, CE, FCC, Indian BIS certified.
- (x) OEM should have its own office and service center within the state for the last five years. Documentary proof need to be attached.
- (xi) The Technical Specifications will be vetted on the letter head of OEM
- (xii) The CCTV OEM should have a Call Centre in India with service/support team.

2. **Technical Details:** As mentioned above at Para 01 of Part – II of this RFP. The bidders are required to submit layout chart and also the sketch of entire CCTV Surveillance system.

3. **Two Bid System:** In respect of Two-bid system, Bidders are required to furnish clause by clause compliance of specifications bringing out clearly the deviations from specification, if any. The Bidders are advised to submit the compliance statement in the following format along with Technical Bid –

Para of RFP specification item-wise	Specification of Item offered	Compliance to RFP specification – whether YES/NO	In case of non-compliance, deviation from RFP to be specified in unambiguous terms

4. **Delivery Period:** Work to be completed within 60 days from the effective date of contract. Please note that Contract can be cancelled unilaterally by the Buyer in case items are not received within the contracted delivery period and if any deviation from the specification of items in the contract. Extension of contracted delivery period will be at the sole discretion of the Buyer, with applicability of LD clause.

5. **Delivery and Transportation:** The items are to be delivered and provisioned at “Air Force School Jammu” Satwari, J&K-180003 with prior intimation before delivery. The transportation cost to destination is to be borne by the vendor.

6. **Destination for Supply:** The items are to be delivered and installed at the address mentioned above in SL No. 5, with a prior intimation before delivery.

Part III – Standard Conditions OF RFP

The Bidder is required to give confirmation of their acceptance of the Standard Conditions of the Request for Proposal mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of the Bid submitted by the Bidder.

1. **Law:** The Contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of the Republic of India.

2. **Effective Date of the Contract:** The contract shall come into effect on the date of signatures of both the parties on the contract (Effective Date) and shall remain valid until the completion of the obligations of the parties under the contract. The deliveries and supplies and performance of the services shall commence from the effective date of the contract.

3. **Arbitration:** All disputes or differences arising out of or in connection with the Contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to construction or performance, which cannot be settled amicably, may be resolved through arbitration. The standard clause of arbitration is as per Forms DPM-7, DPM-8 and DPM-9.

4. **Penalty for use of Undue influence:** The Seller undertake that he has not given offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favour or disfavour to any person in relation to the present Contract or any other Contract with the Government of India. Any breach of the aforesaid undertaking by the Seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the Seller) or the commission of any offers by the Seller or anyone employed by him or acting on his behalf , as defined in Chapter IX of the Indian Penal Code , 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the Seller and recover from the Seller the amount of any loss arising from such cancellation. A decision of the Buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller. Giving or offering of any gift, bribe or inducement or any attempt at any such act on behalf of the Seller towards any officer/employee of the Buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favour in relation to this or any other contract, shall render the Seller to such liability/ penalty as the Buyer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Buyer.

5. **Agents / Agency Commission:** The Seller confirms and declares to the Buyer that the Seller is the original manufacture of the stores/provider of the services referred to in this Contract and has not engaged any individual or firm, whether Indian or foreign whatsoever, to intercede, facilitate or in any way to recommend to the Government of India or any of its functionaries, whether officially or unofficially, to the award of the contract to the Seller; nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or Recommendation. The Seller agrees that if it is established at any time to the satisfaction of the Buyer that the present declaration is in any way incorrect or if at a later stage it is discovered by the Buyer that the Seller has engaged any such individual/firm , and paid

or intended to pay any amount, gift, reward, fees, commission or consideration to such person, party, firm or institution, whether before or after the signing of this contract, the Seller will be liable to refund that amount to the Buyer. The Seller will also be debarred from entering into any supply Contract with the Government of India for a minimum period five years. The Buyer will also have a right to consider cancellation of the Contract either wholly or in part, without any entitlement or compensation to the Seller who shall in such an event be liable to refund all payments made by the Buyer in terms of the Contract along with interest at the rate of 2% per annum above LIBOR rate. The Buyer will also have the right to recover any such amount from any contracts concluded earlier with the Government of India.

6. **Access to Books of Accounts:** In case it is found to the satisfaction of the Buyer that the seller has engaged an Agent or paid commission or influenced any person to obtain the contract as described in clauses relating to Agents/Agency Commission and penalty for use of undue influence, the Seller, on a specific request of the Buyer, shall provide necessary information / inspection of the relevant financial documents/information.

7. **Non-disclosure of Contract documents:** Except with the written consent of the Buyer/Seller, other party shall not disclose the contract or any provision, specification, plan, design, sample or information thereof to any third party.

8. **Liquidated Damages:** In the event of the Seller's failure to submit the Bonds, Guarantees and Documents, supply the stores/goods and conduct trials, installation of equipment, training, etc as specified in this contract, the Buyer may, at his discretion, withhold any payment until the completion of the contract. The BUYER may also deduct from the SELLER as agreed, liquidated damages to the sum of 0.5% of the contract price of the delayed/undelivered stores/ services mentioned above for every week of delay or part of a week, subject to the maximum value of the Liquidated Damages being not higher than 10% of the value of delayed stores.

9. **Termination of Contract:** The Buyer shall have the right to terminate this Contract in part or in full in any of the following cases:-

- (a) The delivery of the material is delayed for causes not attributable to Force Majeure for more than 30 days after the schedule date of delivery.
- (b) The seller is declared bankrupt or becomes insolvent.
- (c) The delivery of the material is delayed due to causes of Force Majeure by more than one month provided Force Majeure clause is included in contract.
- (d) The Buyer has noticed that the seller has utilized the services of any Indian/Foreign agent in getting this contract and paid any commission to such individual/company etc.
- (e) As per decision of the Arbitration Tribunal.

10. **Notices:** Any notice required or permitted by the contract shall be written in the English language and may be delivered personally or may be sent by e-mail or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.

11. **Transfer and Sub-letting:** The Seller has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.

12. **Patents and other Industrial Property Rights:** The prices stated in the present Contract shall be deemed to include all amounts payable for the use of patents, copyrights, registered charges, trademarks and payments for any other industrial property rights. The Seller shall

indemnify the Buyer against all claims from a third party at any time on account of the infringement of any or all the rights mentioned in the previous paragraphs, whether such claims arise in respect of manufacture or use. The Seller shall be responsible for the completion of the supplies including spares, tools, technical literature and training aggregates irrespective of the fact of infringement of the supplies irrespective of the fact of infringement of any or all the rights mentioned above.

13. **Amendments:** No provision of present Contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this Contract and signed on behalf of both the parties and which expressly states to amend the present Contract.

14. **GST, Taxes and Duties**

(i) **General**

1. If Bidder desires to ask for excise duty or GST/ Taxes, the same must be specified stated. In the absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same will be entertained.

2. If reimbursement of any GST/ Taxes is intended as extra over the quoted prices, the Bidder must specifically say so. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of such GST/ Taxes will be entrained after the opening of the tenders.

3. If the bidder chooses to quote a price inclusive of any GST/ Taxes and does not confirm inclusive of such duty/tax so included is firm and final, he should clearly indicate the rate of such duty/tax and quantum of such GST/ Taxes included in the price. Failure to do so may result in ignoring of such offers summarily.

4. If a bidder is exempted from payment of any GST/ Taxes upto any value of supplies from them, he should clearly state that no such GST/ Taxes will be charged by them upto limit of exemption which they may have. If any concession is available in regard to rate/quantum of any GST/ Taxes, it should be brought out clearly. Stipulations like, the said GST/ Taxes was presently not applicable but the same will be charged if it becomes leviable later on, will not be accepted unless in such cases it is clearly stated by a bidder that such duty/tax will not be charged by him even if the same becomes applicable later on. In respect of the Bidders, who fail to comply with requirement, their quoted prices shall be loaded with the quantum of such GST/ Taxes which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders.

5. Any change in any GST/ Taxes upward/downward as a result of any statutory variation in excise taking place within contract terms shall be allowed to the extent of actual quantum of such duty/tax paid by the supplier. Similarly, in case of downward revision in any duty/tax, the actual quantum of reduction of such duty / tax shall be reimbursed to the Buyer by the seller. All such adjustments shall include all reliefs, exemptions, rebates, concession, etc. if any obtained by the seller.

(ii) **GST**

1. If it is desired by the Bidder to ask for GST/ taxes to be paid as extra, the same must be specifically stated. In the absence of any such stipulation in the bid, it will be presumed that the prices quoted by the Bidder are inclusive of GST/ Taxes and no liability of GST/ Taxes will be developed upon the Buyer.

2. On the bids quoting GST/ Taxes extra, the rate and the nature of GST/ Taxes applicable at the time of supply should be shown separately. GST/ Taxes will be paid to the seller at the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to GST/ Taxes and the same is payable as per the terms of the contract.

(iii) **Octroi Duty & Local Taxes**

1. Normally, materials to be supplied to Government Departments against Government Contracts are exempted from levy of town duty, Octroi Duty, Terminal Tax and other levies of local bodies. The local Town/Municipal Body regulations at times, however, provide for such Exemption only on production of such exemption certificate from any authorized officer. Seller should ensure that stores ordered against contracts placed by this office are exempted from levy of town Duty/Octroi Duty, Terminal Tax or other local taxes and duties. Wherever required, they should obtain the exemption certificate from the Buyer, to avoid payment of such local taxes or duties.

2. In case where the Municipality or other local body insists upon payment of these duties or taxes the same should be paid by the Seller to avoid delay in supplies and possible demurrage charges. The receipt obtained for such payment should be forwarded to the Buyer without delay together with a copy of the relevant act or bylaws/ notifications of the Municipality of the local body concerned to enable him to take up the question of refund with the concerned bodies if admissible under the said acts or rules.

Part IV – Special Conditions of RFP

The Bidder is required to give confirmation of their acceptance of Special Conditions of the RFP mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

1. **Performance Guarantee:** The Bidder will be required to furnish a Performance Guarantee by way of Bank Guarantee through a public sector bank or a private sector bank authorized to conduct government business (ICICI Bank Ltd., Axis Bank Ltd or HDFC Bank Ltd.) for a sum equal to 10% of the contract value within 30 days of receipt of the confirmed order. Performance Bank Guarantee should be valid up to 60 days beyond the date of warranty. The specimen of PBG is given in form DPM-15 (Available in MoD website and can be provided on request).

2. **Option Clause:** The contract will have an Option Clause, wherein the Buyer can exercise an option to procure an additional 50% of the original contracted quantity in accordance with the same terms & conditions of the present contract. This will be applicable within the currency of contract. The Bidder is to confirm the acceptance of the same for inclusion in the contract. It will be entirely the discretion of the Buyer to exercise this option or not.

3. **Repeat order Clause:** The contract will have a Repeat Order Clause, wherein the Buyer can order upto 50% quantity of the items under the present contract within six months from the date of supply/successful completion of this contract, the cost, terms & conditions remaining the same. The Bidder is to confirm acceptance of this clause. It will be entirely the discretion of the Buyer to place the Repeat order or not.

4. **Tolerance Clause:** To take care of any change in the requirement during the period starting from issue of RFP till placement of the contract, Buyer reserves the right to plus/minus increase or decrease the quantity of the required goods upto that limit without any change in the terms & conditions and prices quoted by the seller. While awarding the contract, the quantity ordered can be increased or decreased by the Buyer within this tolerance limit.

5. **Payment Terms:** It will be mandatory for the Bidders to indicate their bank account numbers and other relevant payment details so that payments could be made through ECS/NEFT mechanism instead of payment through cheques, wherever feasible. A copy of the model mandate form prescribed by RBI to be submitted by Bidders for receiving payments through ECS is at Form DPM-11. The payment will be made as per the following terms, on production of the requisite documents:

100% payment on completion of work.

6. **Advance Payments:** No advance payment(s) will be made.

7. **Paying Authority:** Executive Director, Air Force School Jammu. The payment of bills will be made on submission of the following documents by the Seller to the Paying Authority along with the bill:

- (a) Ink-signed copy of contingent bill / Seller's bill.
- (b) Ink-signed copy of Commercial invoice / Seller's bill.
- (c) Copy of Supply Order/Contract.
- (d) Guarantee / Warranty certificate.
- (e) Performance Bank guarantee / Indemnity bond where applicable.
- (f) Details for electronic payment viz Account holder's name, Bank name, Branch name and address, Account type, Account number, IFSC code, MICR code (if these details are not incorporated in supply order/contract).
- (g). Any other document / certificate that may be provided for the Supply Order / Contract.
- (h) User Acceptance.

8. **Fall clause:** The following Fall clause will form part of the contract placed on successful Bidder –

(a) The price charged for the stores supplied by the Seller shall in no event exceed the lowest prices at which the Seller sells the stores or offer to sell stores of identical description to any persons/Organisation including the purchaser or any department of the Central government or any Department of state government or any statutory undertaking the central or state government as the case may be during the period till performance of all supply orders placed during the currency of the rate is completed.

(b) If at any time, during the said period the Seller reduces the sale price, sells or offer to sell such stores to any person/organization including the Buyer or any Deptt, of central Govt. or any Department of the State Government or any Statutory undertaking of the Central or state Government as the case may be at a price lower than the price chargeable under the contract, the shall forthwith notify such reduction or sale or offer of sale to the Director general of Supplies & Disposals and the price payable under the contract for the stores of such reduction of sale or offer of the sale shall stand correspondingly reduced. The above stipulation will, however, not apply to:--

- (i) Exports by the Seller.
- (ii) Sale of goods as original equipment at price lower than lower than the prices charged for normal replacement.
- (iii) Sale of goods such as drugs which have expiry dates.

(iv) Sale of goods at lower price on or after the date of completion of sale/placement of the order of goods by the authority concerned under the existing or previous Rate as also under any previous contracts entered into with the Central or State Govt. Depts, including their undertakings excluding joint sector companies and/or private parties and bodies.

(c) The Seller shall furnish the following certificate to the Paying Authority along with each bill for payment for supplies made against the Rate– “We certify that there has been no reduction in sale price of the stores of description identical to the stores supplied to the Government under the contract herein and such stores have not been offered/sold by me/us to any person/organization including the purchaser or any department of Central Government or any Department of a state Government or any Statutory Undertaking of the Central or state Government as the case may be up to the date of bill/the date of completion of supplies against all supply orders placed during the currency of the Rate at price lower than the price charged to the government under the contract except for quantity of stores categories under sub-clauses (a),(b) and (c) of sub-para (ii) above details of which are given below -”.

9. Risk & Expense clause:

(a) Should the stores or any instalment thereof not be delivered with the time or time specified in the contract documents, or it defective delivery is made in respect of the stores or any instalment thereof, the Buyer shall after granting the Seller 45 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.

(b) Should the stores or any instalment thereof not perform in accordance with the specifications / parameters provided by the SELLER during the check proof tests to be one in the BUYER’s country, the BUYER shall be at liberty, without prejudice to any other remedies for breach of contract, to cancel the contract wholly or to the extent of such default.

(c) In case of a material breach that was not remedied within 45 days, the BUYER shall, having given the right of first refusal to the SELLER be at liberty to purchase, manufacture, or procure from any other source as the things fit other stores of the same or similar description to make good:

(i) Such default.

(ii) In the event of the contract being wholly determined the balance of the stores remaining to be delivered there under.

(d) Any excess of the purchase price, cost of manufacturer, or value of any stores procured from any other supplier as the case may be, over the contract price appropriate to such default or balance shall be recoverable from the SELLER.

10. Force Majeure Clause:

(a) Neither party shall bear responsibility for the complete or partial non-performance of any of its obligations (except for failure to pay any sum which has become due on account of receipt of goods under the provisions of the present contract), if the non performance results from such Force Majeure circumstances as Flood, Fire, Earth Quake and other acts of God as well as War, Military operation, blockade, Acts or Actions of State Authorities or any other circumstances beyond the parties control that have arisen after the conclusion of the present contract.

(b) In such circumstances the time stipulated for the performance of an obligation under the present contract is extended correspondingly for the period of time of action of these circumstances and their consequences.

(c) The party for which it becomes impossible to meet obligations under this contract due to Force Majeure conditions, is to notify in written form the other party of the beginning and cessation of the above circumstances immediately, but in any case not later than 10 (Ten) days from the moment of their beginning.

(d) Certificate of a Chamber of Commerce (Commerce and Industry) or other competent authority or organization of the respective country shall be a sufficient proof of commencement and cessation of the above circumstances.

(e) If the impossibility of complete or partial performance of an obligation lasts for more than 6 (six) months, either party hereto reserves the right to terminate the contract totally or partially upon giving prior written notice of 30 (thirty) days to the other party of the intention to terminate without any liability other than reimbursement on the terms provided in the agreement for the goods received.

11. **Specification:** The following specification clause will form part of the contract placed on successful Bidder – The seller guarantees to meet the specifications as per Part-II of RFP and to incorporate the modifications of the existing design configuration to meet the specific requirement of the Buyer Services as per modification/requirements recommended after the Maintenance Evaluation Trail. All technical literature and drawings shall be amended as the modifications

12. **OEM Certificate:** In case the Bidder is not the OEM, the agreement certificate with the OEM for sourcing the spares shall be mandatory. However, where OEMs do not exist, minor aggregates and spares can be sourced from authorized vendors subject to quality certification.

13. **Quality:** The quality of the stores delivered according to the present Contract shall correspond to the technical conditions and standards valid for the deliveries of the same stores for in Seller's country or specifications enumerated as per RFP and shall also include therein modification to the stores suggested by the Buyer. Such modification will be mutually agreed to. The Seller confirms that the stores to be supplied under this contract shall be new i.e. not manufactured before (Year of Contract), and shall incorporate all the latest improvements and modifications thereto and spares of improved and modified equipment are backward integrated and interchangeable with same equipment supplied by the Seller in the past if any. The seller shall supply an inter changeability certificate along with the changed part numbers wherein it should be mentioned that item would provide as much life as the original item.

14. **Inspection Authority:** The inspection will be carried out by AOC/C Adm O/Stn Security Offr/ Stn Edn Offr of Air Force Station Jammu or a representative nominated by him. The mode of inspection will be Departmental Inspection / User Inspection. The items not found original and as per supply order will be rejected. Before finalization of Supply order, TEC/CSCB will ascertain the compliance of Technical Specifications of synthetic courts and material utilized by visiting the firms/work done earlier, evaluating the brushers or ask for samplers

15. **Earliest Acceptable Year of Manufacture:** Year 2020 Quality / Life certificate will need to be enclosed with the Bill

16. **Joint Receipt inspection:** The following Joint Receipt Inspection clause will form part of the contract placed on successful Bidder –

(a) The parties agree that the Joint Receipt Inspection (JRI) of delivered goods shall be conducted on arrival in India at location to be nominated by the Buyer. JRI shall be completed within 60 days (for armament/ammunition)/30 days (for other than armament/ammunition) or arrival of good at the Port Consignee. JRI will consist of

- (i) Quantitative checking to verify that the quantities of the delivered goods correspond to the quantities defined in this contract and the invoices.
- (ii) Complete functional checking of the stores/equipment as per specifications in the contract and as per procedures and tests laid down by Buyer but functional checking of spares shall not be done.

17. **Claims:** The following Claims clause will form part of the contract placed on successful Bidder –

The claims may be presented either:

(a) on quantity of the stores, where the quantity does not correspond to the quantity shown in the Packing List/Insufficiency in packing, or

(b) on quality of the stores, where quality does not correspond to the quality mentioned in the contract.

(i) The quantity claims for deficiency of quantity shall be presented within 45 days of completion of JRI and acceptance of goods. The quantity claim shall be submitted to the Seller as per Form DPM-22 (Available in MoD website and can be given on request).

(ii) The quality claims for defects or deficiencies in quality noticed during the JRI shall be presented within 45 days of completion of JRI and acceptance of goods. Quality claims shall be presented for defects or deficiencies in quality noticed during warranty period earliest but not later than 45 days after expiry of the guarantee period. The quality claims shall be submitted to the Seller as per Form DPM-23 (Available in MoD website and can be given on request).

(iii) The description and quantity of the stores are to be furnished to the Seller along with concrete reasons for making the claims. Copies of all the justifying documents shall be enclosed to the presented claim. The Seller will settle the claims within 45 days from the date of the receipt of the claim at the Seller's office, subject to acceptance of the claim by the Seller. In case no response is received during this period the claim will be deemed to have been accepted.

(iv) The Seller shall collect the defective or rejected goods from the location nominated by the Buyer and deliver the repaired or replaced goods at the same location under Seller's arrangement.

(v) Claims may also be settled by reduction of cost of goods under claim from bonds submitted by the Seller or payment of claim amount by Seller through demand draft drawn on an Indian Bank, in favour of Principal Controller/Controller of Defence Accounts concerned.

(vi) The quality claims will be raised solely by the Buyer and without any certification/countersignature by the Seller's representative stationed in India.

18. **Warranty / Guarantee:**

(a) The following Warranty will form part of the contract placed on the successful Bidder –

(i) The seller warrants that the goods supplied under the contract conform to technical specifications prescribed and shall perform according to the said technical specification.

(ii) The Seller warrants for a period of 36 months for each items as mentioned at appendix “B” from the dated of acceptance of stores by Joint Receipt Inspection or date of installation and commissioning, whichever is later, that the goods/stores supplied under the contract and each component used in the manufacture thereof shall be free from all types of defects/failure.

(iii) If within the period of warranty, the goods are reported by the Buyer to have failed to perform as per the specifications, the Seller shall either replace or rectify the same free of charge, within a maximum period of 45 days of notification of such defect received by the Seller, provided that the goods are used and maintained by the Buyer.

(iv) The seller also warrants that necessary service and repair back up during the warranty period of the equipment shall be provided by the seller and he will ensure that the downtime is within 5% of the warranty period.

(v) The Seller shall associate technical personnel of the Maintenance agency and Quality Assurance Agency of the Buyer during warranty repair and shall also provide the details of complete defects, reasons and remedial actions for defects.

(vi) Of a particular equipment/goods fails frequently and/or, the cumulative down time exceeds 20% of the warranty period, the complete equipment shall be replaced free of cost by the Seller within a stipulated period of 30 days of receipt of the notification from the Buyer. Warranty of the replaced equipment would start from the date of acceptance after Joint Receipt Inspection by the Buyer/date of installation and commissioning.

(vii) In case the complete delivery of Engineering Support Package id delayed beyond the period stipulated in this contract, the Seller undertakes that the warranty period of the goods/stores shall be extended to the extent.

(viii) The Seller will guarantee the shelf life of 60 months under the Indian tropical condition as given below:

1. Minimum temperature --- (-) 30 degree C
2. Maximum temperature ---(+) 50 degree C

19. **Annual Maintenance Contract (AMC) Clause:** The following AMC clause will form part of the contract placed on successful Bidder –

(a) The seller would provide comprehensive AMC for a period of 03 years (Yearly renewable) after expiry of warranty period and at the sole discretion of buyer. The AMC services should cover the repair and maintenance of all the equipment and systems purchased under the present Contract. The Buyer Furnished Equipment which is not

covered under the purview of the AMC should be separately listed by the Seller. The AMC services would be provided in two distinct ways.

- (i) **Breakdown maintenance Service:** In case of any breakdown of the equipment/system, on receiving a call from the Buyer, the Seller is to provide maintenance service to make the equipment/system serviceable.
- (b) **Response time:** The response time of the Seller should not exceed 07days(Seven days) from the time the breakdown intimation is provided by the Buyer.
- (c) **Serviceability of -100% per year** is to be ensured. This amounts to total maximum downtime of 30 days per year. Also un-serviceability should not exceed 07 days at one time. Required spares to attain this serviceability may be stored at site by the Seller at his own cost. Total down time would be calculated at the end of the year. If downtime exceeds permitted downtime, LD would be applicable for the delayed period.
- (d) **Maximum repair turnaround time** for equipment/system would be 07 days. However, the spared should be maintained in a serviceable condition to avoid complete breakdown of the equipment/system.
- (e) **Technical Documentation:** All necessary changes in the documentation (Technical and operators manual) for changes carried out on hardware and software of the equipment will be provided.
- (f) During the AMC period, the seller shall carry out all necessary servicing/repairs to the equipment/system under AMC at the current location of the equipment/system. Prior permission of the Buyers would be required in case certain components/sub systems are to be shifted out of location. On such occasions, before taking over the goods or components, the Seller will give suitable bank guarantee to the Buyer to cover the estimated current value of item being taken.
- (g) The Buyers reserves its right to terminate the maintenance contract at any time without assigning any reason after giving a notice of 01 month. The seller will not be entitled to claim any compensation against such termination. However, while terminating the contract, if any payment is due to the Seller for maintenance services already performed in terms of the contract, the same would be paid to it as per the contract terms.

Part V – Evaluation Criteria & Price Bid issues

1. **Evaluation Criteria:** The broad guidelines for evaluation of Bids will be as follows:
 - (a) Only those Bids will be evaluated which are found to be fulfilling all the eligibility and qualifying requirements of the RFP, both technically and commercially.
 - (b) In respect of Two-Bid system, the technical Bids forwarded by the Bidders will be evaluated by the Buyer with reference to the technical characteristics of the equipment as mentioned in the RFP. The compliance of Technical Bids would be determined on the basis of the parameters specified in the RFP. The Price Bids of only those Bidders will be opened whose Technical Bids would clear the technical evaluation.

(c) The Lowest Bid will be decided upon the lowest price quoted by the particular Bidder as per the Price Format given at Para 2 below. The consideration of GST/taxes and duties in evaluation process will be as follows:

(i) All taxes and duties (including those for which exemption certificates are issued) quoted by the bidders will be considered. The ultimate cost to the buyer would be the deciding factor for ranking of Bids.

(d) Bidders must indicate separately the relevant GST/Taxes likely to be paid in connection with delivery of completed goods specified in RFP. In absence of this, the total cost quoted by them in their bids will be taken into account in the ranking of bids.

(e) If a bidder is exempted from payment of any GST/Taxes upto any value of supplies from them, he should clearly state that no such GST /Taxes will be charged by them upto the limit of exemption which they may have. If any concession is available in regard to rate/quantum of any GST/Taxes, it should be brought out clearly. In such cases, relevant certificate will be issued by the Buyer later to enable the seller to obtain exemptions from taxation authorities.

(f) Any change in levies, GST/Taxes levied by Central/ Stat/ Local government such as excise duty, GST/Taxes, Octroi/ entry tax etc on the final product upward as a result of any statutory variations taking place within the contract period shall be allowed reimbursement by the Buyer, to the extent of actual quantum of such GST/Taxes paid by the seller. Similarly, in case of downward revision in any such GST/Taxes, the actual quantum of reduction of such GST/Taxes shall be re-imbursed to the Buyer by the seller. All such adjustment shall include all reliefs, exemptions, rebates, concessions etc if any obtained by the seller. Section 64 A of Sales of Goods Act will be relevant in this situation.

(g) Levies, GST/Taxes levied by Central/ State/ Local governments such as excise duty, GST/Taxes, Octroi, Entry tax on final product will be paid by the buyer on actuals, based on relevant documentary evidence. GST/Taxes on input items will not be paid by buyer on actuals, based on relevant document evidence. GST/Taxes and duties on input items will not be paid by the buyer and they may not be indicated separately in the bids. Bidders are required to include the same in the pricing of their product.

(h) In cases where only Indian bidders are competing L-1 bidder will be determined on Basic Cost excluding levies, GST/Taxes and duties levied by Central/ State/ Local governments such as excise duty, GST/Taxes, Octroi/ entry tax etc on final product as quoted by bidders.

(j) The Lowest Acceptable Bid will be considered further for placement of contract/ Supply Order after complete clarification and price negotiations as decided by the Buyer. The Buyer will have the right to award contracts to different Bidders for being lowest in particular items. The Buyer also reserves the right to do Apportionment of Quantity, if it is convinced that Lowest Bidder is not in a position to supply full quantity in stipulated time.

2. **Price Bid Format:** The price to be quoted in the format given in **Appendix- 'A'**.

(Pratish)
Squadron Leader
Executive Director
AF School- Jammu

COMMERCIAL BID FORMAT FOR PROCUREMENT AND INSTALLATION OF CCTV SURVEILLANCE SYSTEM

SL NO (1)	NAME OF ITEM (2)	SPECIFICATION (3)	DOQ (4)	OFFERED BRAND / MAKE (5)	Unit / BASIC PRICE (without tax) (6)	TAX % (7)	TOTAL AMOUNT INCLUDING TAX (8)
(a)	NVR 32 Channel, H.265, IP 67, 2 HDD Bay Support upto 10 TB	As per Para 01 of Part- II of this RFP	8				
(b)	IP Dome Camera 2.0 MP 30 Mtr HD IR		40				
(c)	IP Bullet Camera 2.0 MP 50 Mtr HD IR		135				
(d)	IP PTZ Camera 4 MP 30x WDR IR Network PTZ Camera- 150Mtr		2				
(e)	HDD Surveillance 8 TB		16				
(f)	Rack 32 U rack with 600X600 with PDU and Fan		1				
(g)	LED TV 50 Inches		4				
(h)	POE Switch 24-port giga managed POE switch with 2 SFP ports		4				

(j)	Switch 16-port Giga POE switch with 180 watt power budget	As per Para 01 of Part- II of this RFP	6				
(k)	Switch Gigabit 8 port POE switch with 2 SFP ports		5				
(l)	24-port Unloaded Patch panel		10				
(m)	Cat 6 toolless Information outlet		190				
(n)	R&M 1 Mtr Cat 6 patch cord		190				
(o)	9U rack wall mount with 450 MM depth		8				
(p)	4 U wall mount rack		5				
(q)	UPS Online UPS 20 KVA with Isolation (1 Hour Backup on Full Load) Including Full Accessories		1				
(r)	Cat 6 Cable Fr- PVC with 69% NVP		14000				
(s)	PVC 30 MM PVC Conduit Pipe per mtr		8000				

(t)	Power Cable 2.5 MM Copper 3 Core sheath	As per Para 01 of Part- II of this RFP	400				
(u)	Fibre 6 core armoured single mode fiber cable		200				
(v)	LIU 6-port LIU with rack mount channel		3				
(w)	Patch cord LC-SC-fiber patch cord		3				
(x)	SFP Single mode fiber module		3				
(y)	SC type fiber pigtail		12				
(z)	SC type fiber adaptor		12				
Grand Total : (Inclusive of 03 years Comprehensive Warranty)							

Note: The vendor is to provide layout chart of complete CCTV Surveillance System.

Appendix -'B'

CERTIFICATE: ACCEPTANCE OF TERMS AND CONDITIONS OF RFP

It is certified that all the terms and conditions as laid down in the attached pages and anywhere in the tender and its appendices are accepted by the company and will be abide by them. It is further certified that any cost incurred on supply of „**PROCUREMENT AND INSTALLATION OF CCTV Surveillance System at Air Force School Jammu** as mentioned in the schedule of requirement of the Request for Proposal (RFP) required to complete the commitment of this unit would be borne by us.

Company seal

Authorised Signatory of Company

Place :

Date: