

**Corrigendum- dated 07.01.2020**

**Request for proposal (RFP) for Selection of Implementing Agency for Supply, Installation, Commissioning and Operations & Maintenance of CCTV Video Surveillance System at Training center of Khalal and Karai on behalf of Office of the Additional Director General of Police (Training), Government of Gujarat. RFP. NO. GIL\Training Center\Video Surveillance\2019-20**

**DATE: 21.12.2019**

## **Section - 4: Technical Specification**

### **4.1 Indoor Fixed Dome Cameras**

<b>S/N</b>	<b>Specification</b>
1.	Image sensor : 1/3" Progressive Scan CMOS 2 MP or better
2.	Lens: 2.8 to 12 mm or better, DC-iris, motorized
3.	Day and Night: Automatic/manual/scheduled
4.	IR Range: Min 30 Mtr or better
5.	WDR: True WDR >=120 db
6.	Min. Illumination / Light Sensitivity: Color mode: F1.4 @ 0.5 lux and B & W mode: F1.4@ 0.01 lux
7.	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.
8.	Video Compression: H.264, H. 265
9.	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast
10.	Intelligent Video: Motion Detection, Camera Tampering, camera masking, Trip wire, Perimeter intrusion detection, HLC, Corridor mode.
11.	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)
12.	Protocol Support: IPv4, IPv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project
13.	Interface: 10/100BaseT or better RJ45 Port with 802.3af POE Support, Should support 2 way Audio and should support 1 port Alarm Input, 1 port Alarm output
14.	Camera Should remote Zoom and Auto focus
15.	Camera should support internal/external microphone and 32GB Micro SD/SDHC /SDXC memory card for recording
16.	IP 66 and IK 10 Rated housing
17.	Should be ONVIF Profile S compliant
18.	Certification:- ETL/UL, BIS certified at the time of bidding
19.	Operating Temperature: 0-50 °C

### **4.2 Outdoor Bullet Camera**

<b>S/N</b>	<b>Specification</b>
1.	Image sensor : 1/3" Progressive Scan CMOS 2 MP or better
2.	Lens: 2.8 to 12 mm or better, DC-iris, motorized zoom
3.	Day and Night: Automatic/manual/scheduled
4.	IR Range: Min 50 Mtr or better
5.	WDR: True WDR >=120 db or better

6.	Min. Illumination / Light Sensitivity: Color mode: F1.4 @ 0.5 lux and B & W mode: F1.4@ 0.01 lux
7.	Light sensor: Senses the level of ambient light to determine when to switch day/night mode.
8.	Video Compression: H.264, H. 265
9.	Video Stream: Individually configurable min 03 video streams (H.264/H.265), Unicast/ Multicast
10.	Intelligent Video: Motion Detection, Camera Tampering, camera masking, Trip wire, Perimeter intrusion detection, HLC, Corridor mode
11.	Resolutions and frame rates : 25/30 fps at 1920x1080 (1080p)
12.	Protocol Support: IPv4, IPv6, TCP/IP, HTTP, DHCP, UDP, DNS, SMTP, RTP, RTSP, SNMP protocols/Should meet all functional requirement of the project
13.	Interface: 10/100 BaseT or better RJ45 Port with 802.3af POE Support, Should support 2 way Audio and should support 1 port Alarm Input, 1 port Alarm output
14.	Camera Should remote Zoom and Auto focus
15.	Camera should supplied with 32GB Micro SD/SDHC/SDXC memory card for recording
16.	IP 66 and IK 10 Rated housing
17.	Should be ONVIF Profile S compliant
18.	Certification: - ETL/UL, BIS certified at the time of bidding
19.	Operating Temperature: 0-55 °C, should have sun shield on top of the camera enclosure
20.	Should be supplied with suitable mounting box, L/C Bracket and other required accessories

#### **4.5 64 Ch Network Video Recorder (NVR)/ Video Recording System with Storage**

Sr. No.	Item (Minimum Specification)
5	64 Channels or better NVR with supports up to 8 SATA hard drives each support up to 8TB, Should be loaded with 64 TB Capacity of HDDs. Should support RAID 0,1,5,6,10 support
	Support 4K streaming, Support 64 Channel up to (3840*2160) Resolution
	Support 300 Mbps of incoming Bandwidth, support e-sata and USB
	Support H.264, H.265 and H.265+
	2# of Gigabit port with load balancing and failover
	Support ONVIF 2.0 and above cameras, Should support Remote live view and remote playback,
	Interface: 3 USB, 2 HDMI, 1 VGA , 8 SATA, RS-485, , 16 CH Alarm in, 4 CH Alarm out, 1 CH Audio In, 1 CH Audio out, Should support Network storage and backup, Rack mountable
	Should support 32 Channels streaming in Single screen, 16 Channels synchronous Playback
	Certification- ETL/ UL and BIS certified at the time of bidding, The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing.
	NVR and IP CCTV camera should be same make

#### **4.6 Layer-2, 24 port Network Switch**

Sr. No	Item (Minimum Specification)
1	a) Switch should have minimum 24 # 1 G SFP Port . b) Min. 4 nos. of SFP+ ports. c) Minimum 8 10/100/1000 Base-T combo Ports (should be out of 24 # 1 G SFP Port or additional)

2	Should have minimum switching capacity as per the proposed switch and solution requirement.
3	Should be IPv4 and IPv6 ready from day one
4	Should have IGMP snooping v1 & 2 supporting min 100 multicast groups
5	Should support protocols like MSTP, STP, RSTP, dot1q VLAN-tagging, IEEE 802.3ad, NTP
6	Switch should support Port-based and 802.1Q tag-based VLANs, MAC-based VLAN, Guest VLAN, Private VLAN, with multiple uplinks, <b>Should support Inter-Vlan routing</b>
7	All ports should have features of auto-negotiate, flow control (802.3x), port-based network access control (802.1x), port security, MAC filtering etc.
8	The switch should support, IPv6 DHCP-Guard/ DHCP Snooping, Source-Guard features
9	All necessary SFP's, interfaces, connectors, patch cords (if any) & licenses must be delivered along with the switch from day one.
10	Should have console port for administration & management, CLI and web-based GUI for easy Management
11	Port Security to secure the access to a port based on the MAC address of a user's device. The aging feature to remove the MAC address from the switch after a specific time to allow another device to connect to the same port.
12	Multilevel security on console access to prevent unauthorized users from altering the switch Configuration.
13	Web/SSL, Telnet server/SSH, ping, traceroute, Simple Network Time Protocol (SNTP)/NTP, Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, syslog, DNS client, protocol-based VLANs
14	Duplicate address detection (DAD)
15	Operating Temperature: 0 ° C to 50 ° C
16	10 % to 90 % RH, non-condensing
17	The Switch should be Rack mountable & the switch should be supplied with Indian standard AC power cord, suitable Patch Panels with I/O's
18	Certification:- CE, FCC, UL/BIS certified at the time of bidding, All types of Switches and SPF modules should be form same OEM

## Section 5: -Price Bid Format

Amount in Rs.

S/ N	Item	Qty. (In Nos.)	Unit Price With 5 Year Warranty (Without Tax)	Total Price With 5 Year Warranty (Without Tax)	GST (%)
A	B	D	E	F=(D*E)	G
1.	Indoor Fixed Dome Camera	135			
2.	Outdoor Bullet Camera	92			
3.	Outdoor PTZ camera	9			
4.	128 CH Network Video Recorder (NVR)	2			
5.	64 CH Network Video Recorder (NVR)	1			
6.	Layer-2, 24 port Switch	3			
7.	PoE Layer-2, 8 port Switch	89			
8.	1 KVA Online UPS (with 30 Minutes battery backup)	2			
9.	600 VA UPS (with 15 Minutes battery backup)	89			
10.	55" or higher LED Display unit	3			
11.	24 Port Cat-6 Jack / Patch Panel with I/Os	2			
12.	8 Port Cat-6 Jack / Patch Panel with I/Os	89			
13.	24 U Rack including required accessories and dressing	2			
14.	9 U Rack including required accessories, and dressing	58			
15.	Outdoor 9 U rack/junction box, including required accessories and dressing	30			
16.	1 feet Cat-6 Factory Crimped Patch Cord	236			
17.	Mount Box at Camera End	236			
18.	Cat 6 UTP cable with laying (in meter)	5500			
19.	6 Core Single Mode Fiber Cable (in meter)	11500			
20.	12 Port Fiber LIU fully Loaded with Adapter, Pigtail	90			
21.	24 Port Fiber LIU fully Loaded with Adapter, Pigtail	1			
22.	SM Type Fiber Mini GBIC Modules for Fiber Connectivity	194			
23.	Surge Protection Power Strip	91			
24.	1.5" Size PVC pipe including Labor Charges (in meter)	4000			

25.	32 MM HDPE Pipe with Supply & Laying on Wall and Underground (Soft soil and Hard Soil, digging) (in meter)	11500			
26.	25MM GI Pipe (in meter)	200			
27.	Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter)	200			
28.	Pole with foundation / installation	32			
<b>Total</b>					

**Note:**

1. L1 bidder will be decided from the sum total of prices for all line items without tax with 5 years warranty
2. All the above-mentioned line items should comply to functional, Technical specifications and Scope of work including all applicable Licenses, Active and passive Cabling and Accessories, Installation, Commissioning and Configuration and onsite Support.
3. Quoted Rates should be inclusive of all like Packing/ Forwarding, Insurance, FOR destination (anywhere in the Gujarat state) etc. and with applicable warranty except GST. GST needs to be shown separately at the appropriate column in price bid and will be paid on actual basis at the time invoicing.
4. Bidder needs to upload detailed BOQ along with make & Model and part codes of all the line items.

## Annexure I

### Tentative material per Office:

Sr. No.	Requirement	Location detail/Approx. qty. per office		Total Qty.
		Police Training center, Karai	Commando Training Center, Khalal	
1.	Indoor Fixed Dome Camera	119	16	135
2.	Outdoor Bullet Camera	71	21	92
3.	Outdoor PTZ camera	4	5	9
4.	128 CH Network Video Recorder (NVR)	2	0	2
5.	64 CH Network Video Recorder (NVR)	0	1	1
6.	Layer-2, 24 port Switch	2	1	3
7.	PoE Layer-2, 8 port Switch	76	13	89
8.	1 KVA Online UPS (with 30 Minutes battery backup)	1	1	2
9.	600 VA UPS (with 15 Minutes battery backup)	76	13	89
10.	55" or higher LED Display unit	2	1	3
11.	24 Port Cat-6 Jack / Patch Panel with I/Os	1	1	2
12.	8 Port Cat-6 Jack / Patch Panel with I/Os	76	13	89
13.	12 U Rack	1	1	2
14.	9 U Rack	53	5	58
15.	Outdoor 9 U rack/ junction box	23	7	30
16.	1 feet Cat-6 Factory Crimped Patch Cord	194	42	236
17.	Mount Box at Camera End	194	42	236
18.	Cat 6 UTP cable with laying (in meter)	4000	1500	5500
19.	6 Core Single Mode Fiber Cable (in meter)	8000	3500	11500
20.	12 Port Fiber LIU fully Loaded with Adapter, Pigtail	76	14	90
21.	24 Port Fiber LIU fully Loaded with Adapter, Pigtail	1	0	1
22.	SM Type Fiber Mini GBIC Modules for Fiber Connectivity	166	28	194
23.	Surge Protection Power Strip	77	14	91
24.	1.5" Size PVC pipe including Labor Charges (in meter)	3000	1000	4000

25.	32 MM HDPE Pipe with Supply & Laying on Wall and Underground (Soft soil and Hard Soil, digging) (in meter)	8000	3500	11500
26.	25MM GI Pipe (in meter)	100	100	200
27.	Asphalt Cutting / Horizontal Boaring/RCC/plaster cutting (in meter)	100	100	200
28.	Pole with foundation / installation	21	11	32

Note:

1. All the changes is highlighted as above, all other terms and conditions is as per RFP. NO. GIL\Training Center\Video Surveillance\2019-20 DATE: 21.12.2019
2. We have revised financial bid on n-procure website also, bidder have to accordingly change in the financial section of n-procure website based on the said corrigendum.