

## **CORRIGENDUM-III**

**Subject: Reference to e-Tender Notice – NITJ/PUR/CCTV/04/2022 for the Purchase of CCTV Camera along with Accessories for Various Locations of the Institute**

In reference to tender on subject cited above and queries of various firms, some revised specifications and terms & conditions are as under:-

**1. Camera Pole specifications are as under:-**

- Material: GI Pipe
- Height: 6 Meters
- Diameter: 3 Inch's
- Installation with complete accessories

**2. Revised specifications of ANPR Camera and NVR are as under:-**

### ANPR CAMERA

Accuracy (Under recommended installation and lighting conditions)	Capture rate > 98% accuracy > 98% Mistaken capture rate < 2%
No License Plate Detection	Supported
Motorcycle LPR	Supported
Vehicle Type ( <b>Optional feature</b> )	Car/Van/Bus/Truck/Others
Vehicle Color	Red, yellow (including orange), green, blue, purple, brown, white, grey (including silver), black
Vehicle Manufacturer ( <b>Optional feature</b> )	65 manufacturers: HYUNDAI, TOYOTA, KIA, HONDA, VOLKSWAGEN, BENZ, NISSAN, FORD, ISUZU, BMW, CHEVROLET, MITSUBISHI, RENAULT, OPEL, SUZUKI, SKODA, DAEWOO, AUDI, MAZDA, HINO, PEUGEOT, SSANG YONG, CITROEN, FIAT, SCANIA, MAN, VOLVO, LEXUS, SEAT, LAND ROVER, DAIHATSU, UD TRUCKS,
Capture Speed Range	5 to 100 km/h or better
<b>Image</b>	
Max. Resolution	1920 × 1080 or better
Main Stream	50 Hz: 50 fps (1920 × 1080) or better 60 Hz: 60 fps (1920 × 1080) or better
Sub-Stream	50 Hz: 50fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 60fps (1280 × 720, 704 × 480, 640 × 480)
Image Enhancement	BLC, HLC, 3D DNR
Image Settings	Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser.
Video Compression	H.264 and H.265 encoding
Day/Night Switch	Auto/Scheduled/Triggered by alarm in
<b>Network</b>	
Network Storage	Micro SD/TF Card (128 GB), local storage and CVR, NVR or better

Alarm Trigger	HDD Error, network disconnected, IP address conflicted, License plate block list
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, RTSP, NTP, IPv6, UDP, On VIF
Security Measures	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1)
Web Browser	IE11+, Google Chrome, Firefox, Safari
<b>Interface</b>	
Audio	Supported
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface 2 RS-485 interfaces 1 RS-232 port
Alarm	2 input interfaces, 2 output interfaces or better
Video Output	Network
On-Board Storage	Built-in micro SD/TF card, up to 128 GB
Reset Button	Supported
<b>General</b>	
Operating Conditions	Temperature: -30 °C to +70 °C (-22 °F to +158 °F), Humidity: 95% or less (non-condensing)
Power Supply	12 VDC to 24 VDC ± 20%, POE
Protection Level	IP67
Power Consumption	Max. 35 W

## NVR

MAIN PROCESSOR	Quad-core embedded processor, Industrial Grade
OPERATING SYSTEM	Embedded LINUX
INPUTS	32 Channels IP
AUDIO INPUT/OUTPUT	1 Channel Input/1 Channel Outputs, RCA
TWO-WAY COMMUNICATION	Supported
INTERFACE	2 HDMI (1 HDMI up to 3840 × 2160); 1 VGA
RESOLUTION	3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720; 1024 × 768
DISPLAY SPLIT	1/4/8/9/16/25/36
OSD	Camera title; Time; Video loss; Camera lock; Motion detection; Recording
PROGRAMMABLE VIDEO OUTPUT	2nd HDMI output
FISHEYE VIDEO DE-WARPING	Supported in local and web user interface
COMPRESSION	H.265/H.264/MJPEG/MPEG4
RESOLUTION	<b>12 MP</b> (4000 × 3000); <b>8 MP</b> (3840 × 2160); <b>6 MP</b> (3072 × 2048); <b>5 MP</b> (2560 × 1920); <b>4 MP</b> (2560 × 1440); <b>3 MP</b> (2048 × 1520); <b>1080p</b> (1920 × 1080); <b>720p</b> (1280 × 720); <b>D1</b> (704 × 576 / 704 × 480); <b>CIF</b> (352 × 288 / 352 × 240)
RECORD BIT RATE	312 Mbps or better
BIT RATE <sup>1</sup>	16 kbps ~ 20 Mbps, per channel
RECORDING MODE	Schedule (Regular/Continuous, Motion Detection, Alarm); Manual; Stop
RECORDING INTERVAL	1 to 120 minutes (default 60 min)
PRE-EVENT RECORDING INTERVAL	1 to 30 seconds
POST-EVENT RECORDING INTERVAL	10 to 300 seconds
TRIGGER EVENTS	Recording; PTZ; Tour; Video Push; Email; FTP; Snapshot; Buzzer
VIDEO DETECTION	Motion Detection—MD Zones: 396 (22 × 18); Video Loss; Camera Blank
ALARM INPUT	16 Channels
RELAY OUTPUT	6 Channels or better
SYNC PLAYBACK	1/4/8/16 (maximum 4-ch @ 8MP, 8-ch @ 4MP, or 16-ch @ 1080p simultaneous playback)
SEARCH MODE	Time/Date; Alarm; Motion Detection (MD); Exact Search (accurate to a second); Smart Search
PLAYBACK FUNCTION	Play; Pause; Stop; Rewind; Fast play; Slow play; Next File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup selection; Digital Zoom
ETHERNET	1 RJ-45 port (10/100/1000 Mbps) or better

POE	16 ports (IEEE802.3af/at) (External or Inbuilt)
SUPPORTED PROTOCOLS <sup>2</sup>	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search, P2P
MAXIMUM NUMBER OF USERS	128 users
NETWORK THROUGHPUT	Input 312 Mbps; Output 312 Mbps or better
SMART PHONE COMPATIBILITY	iPhone; iPad; Android
INTERNAL HDD	8 SATA ports
EXTERNAL HDD	1 eSATA port
RAID	RAID** 1, 5, 10
USB PORTS	4 (2 rear USB3.0; 2 front USB2.0)
RS232	1 port (for PC communications and keyboard)
POWER SUPPLY	Single, 100~240 VAC, 50/60 Hz
POWER CONSUMPTION	NVRs: 25 W max (without HDD)
OPERATING TEMPERATURE	14°F to 131°F (-10°C to 55°C)
RELATIVE HUMIDITY	10% to 90%, non-condensing

**Note:**

- ❖ Regarding installation, it is clarified that the laying of OFC Cable should be done in mixed mode. The digging should be done manually/with HDD machine as per Paved/unpaved road/track. The charges of installation may be quoted accordingly.

The bidders are requested to quote accordingly.

Other terms & conditions of the Tender Documents shall remain same.

  
**Assistant Registrar (Purchase)**