

DISTRICT PLANNING & MONITORING UNIT (P&S), NUAPADA

TENDER CALL NOTICE

Tender Call Notice No:

Date - 25 /01/2019

1. On behalf of **COLLECTOR & DISTRICT MAGISTRATE**, NUAPADA, ODISHA sealed bids are invited from eligible resourceful, experienced & bonafide contractors as per the enclosed list (Table -1).

Table – 1 : Date & Time Schedule

1	Name of the work	Supply, Installation and Commissioning of CCTV Surveillance System for Nuapada, Odisha
2	Estimated Cost	90.00 LAKH
3	Period of completion	2 MONTHS
4	Earnest Money (1 % of EC)	Rs. 90,000.00
5	Tender Paper Cost (Non Refundable)	Rs. 10,000.00
6	Tender Publication Date	25.01.2019
7	Starting of Document Download	25.01.2019
8	Last Date of Bid Submission	08.02.2019
9	Opening of Technical Bid & Financial Bid	12.02.2019 at 11 AM

Details of the projects and all terms & conditions can be downloaded from the District Website namely: - www.nuapada.nic.in from 25.01.2019 to 08.02.2019 The last date for receipt of the tender complete in all respect is 08.02.2019 up to 3.00 PM through **Registered Post / Speed Post** only. All other mode of submission of Tender will be rejected.

Collector & District Magistrate,
Nuapada

Memo No. . Dt.

Copy forwarded to the Advertising Manager, the New India Express / DHARITREE for publication of the tender call notice at DI&PR Approved rates, in all Odisha Edition of the news paper for wide publicity.

Deputy Director (P & S),
DPMU, Nuapada.

Memo No. . Dt.

Copy along with soft copy of the Tender Bid Documents are forwarded to the District Informatics Officer, NIC, Nuapada for web hoisting in the portal www.nuapada.nic.in and further necessary action.

Deputy Director (P & S),
DPMU, Nuapada.

2. For Participating in the tender, the Tenderer shall have to pay the Earnest Money & cost of Tender Paper as indicated in Table -01 in shape of B.D. in favour of Collector & District Magistrate, Nuapada payable at Nuapada.
3. EMD Exemption are allowed for MSME and NSIC Registered units only. Valid documents to be submitted.
4. A prospective Tenderer shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job all his applications will be rejected for that job. The Earnest Money of the all the unsuccessful tenderers, will be refunded after issuing work order of the said work.
5. **Eligibility criteria for participation in tender:**

The technical evaluation will be done on the following parameters and offers from firms not conforming to any of these parameters will be rejected.

- a) The bidder should have valid GST Registration Certificate & PAN. Bidder shall have to submit photocopy of the documents.
- b) The bidder should have atleast 5 years experience of CCTV Surveillance System. Necessary documents (Work Order/Completion Certificate of Govt. Organisation) have to be submitted.
- c) The bidder should have executed at least one similar nature work not less than Rs.1.00 Crore in last three financial years in State/Central Govt. Relevant Work Order copy to be provided.
- d) Bidders experience working with Police Department of any state will be preferred. Working Experiences in Smart City may be given additional weightage.
- e) Bidder should have a local office within 50-70 kms of project implementation site.
- f) The bidder should have total turnover of not less than **Rs. 3.00 Crore** in the last three financial years. Bidder shall have to Audited Balance Sheet of last 3 financial years (2015-16, 2016-17, 2017-18).
- g) Manufacturer's tender specific authorizations (MAF) for main items i.e., Camera, NVR, Switch, Cables & Display must be submitted.
- h) Cameras & NVR should be UL listed, CE and FCC Certified.
- i) Camera Test Report of UL accredited lab with lab accreditation certificate.
- j) The bidder should be an ISO Certified organisation. Copy of valid Certificate is to be submitted
- k) The bidder should be MSME Registered unit.
- l) The bidder shall not have been blacklisted by any State/Central Government or PSU Organization or bilateral/multilateral funding agencies for breach of ethical conduct or fraudulent practices as on date of submission of the proposal. Declaration on bidder's letter head to be submitted.
- m) This EMD amount will be forfeited if, the Bidder refuses to accept purchase order, fails to carry out his obligations mentioned therein. No interest will be payable on the Earnest Money Deposit. The Earnest Money Deposit will be refunded to the

unsuccessful Bidders. The Earnest money paid by the successful Bidder will be released only after completion of the work.

- n) All technical compliance signed & stamp by OEM own letter head.

6. Submission of Tenders

Please enclose the TECHNICAL BID in a separate sealed Envelope (Marked as Envelope-1) , PRICE BID in a sealed Envelope (Marked as Envelope-2) and the Demand Draft of Tender Fee and EMD in a separate Envelope (Marked as Envelope-3) and all the three sealed envelopes should be placed in a Fourth Envelope (Marked as Envelope – 4) sealed and submitted to the undersigned super scribing with “Tender for Supply, Installation and Commissioning of CCTV Surveillance System for Nuapada, Odisha”.

The Tender Inviting Authority reserve the right to accept or reject any tender application without assigning any reason whatsoever.

Note

- i) If any contractor is exempted from payment of EMD, copy of relevant Government Order needs to be furnished.
- ii) Tenders will be summarily rejected if any item in the statutory cover is missing.
- iii) In case of any inadvertent typographical mistake the same to be treated to be corrected as to confirm to the prevailing relevant schedule of rates or technically sanctioned estimate.
- iv) Necessary deduction i.e. GST, I.T. CESS etc. will be made as per relevant Govt. order.

b. Non-Statutory Technical cover containing,

i) Up to date Professional Tax (PT) Clearance receipts and IT PAN, up to date Income Tax Return receipts valid up to the date of opening of the tenders. Application for such clearance addressed to the competent authority may also be considered.

ii) Up to date GST Registration Certificate and up to date and valid Return Certificate of the last quarter of the current financial year.

iii) Registered Deed for Partnership Firm.

iv) Work Order and Work Completion Certificate.

vi) For Registered Unemployed Engineers ‘Co-Operative Societies and Registered Labour Co- Operative Societies registration papers in support of their registration, Bye Laws, up to date audited balance sheet.

vii) Experience profile should be furnished in given format in Annexure-A in the end of this page.

**THE ABOVE STATED NON-STATUTORY TECHNICAL DOCUMENTS SHOULD
BE ARRANGED IN THE FOLLOWING MANNER**

Sl. No	Category Name	Sub Category Description	Details
A.	CERTIFICATES	CERTIFICATES (ALL CERTIFICATE SHOULD BE UP TO DATE)	1. GST Registration Certificate 2. PAN Card 3. P Tax Registration Certificate 4. Income Tax Returns
B.	COMPANY DETAILS	COMPANY DETAILS	1. Proprietorship Firm (Trade License) 2. Partnership Firm (Partnership Deed, Trade License) 3. LTD. Company (Registration Certificate, Trade License) 4. Co-Operative Society (Society Registration Certificate) Bye Laws, up to date Audited Balance Sheet. 5. Power of Attorney (Registered)
C.	CREDENTIAL	Credential	1. Completion Certificate for Similar Nature of Work Done

NOTE: FAILURE OF SUBMISSION OF ANY ONE OF THE ABOVE MENTIONED DOCUMENTS WILL RENDER THE TENDER LIABLE TO REJECT.

9. Financial Proposal:

- i) The Financial proposal should contain the following documents in one cover (folder) i.e. Bill of quantities (BOQ). The contractor is to quote the rate (Percentage Above (+)/ Below (-)/ At per (+0.00)) over the total estimated cost of the intended job online through computer in the space marked for quoting rate in the BOQ.
- ii) Only downloaded copies of the above documents are to be submitted by the contractor.

10. Rejection of Bid

The employer (Tender accepting authority) reserves the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to the award of contract without thereby incurring any liability to the affected Tenderers or any obligation to inform the affected Tenderer or Tenderers.

11. Award of Contract

The Tenderer whose Bid has been accepted will be notified by the Tender Inviting & Accepting Authority. The notification of award will constitute the formation of the Contract. The Agreement will be executed between the Tender Accepting Authority and the successful Tenderer.

12. Formalities

During execution if any approval from the competent authorities is required the same has to be obtained by the tenderer/agency.

13. Specification

Before quotation of rate the tenderer should inspect the site and get fully acquainted with the all physical and technical parameters related to the successful completion of the work.

14. Mode of Payment

Payment will be made as per the availability of the fund from the govt. for the respective project. No mobilization advance and secured advance will be allowed.

15. Security Deposit

The successful bidder has to submit the Performance Security Deposit amounting to 10% (ten percent) of the value of the work in form of Bank Guarantee or the amount will be deducted from the running account bill of the tenderer. No interest will be paid on Security Deposit.

16. Warranty

All the items of this tender should be under warranty of 02 (Two) years with free maintenance services from the date of installation & Commissioning of the complete system.

17. Collector & District Magistrate, Nuapada has the right to cancel or modify the tender without citing the reason thereof.

18. All disputes will be settled within the jurisdiction of the Court of Nuapada.

19. Supplementary / Additional items of Works:

Notwithstanding the provisions made in the related printed tender form, any item of work which can legitimately be considered as not stipulated in the specific price schedule of probable items of work but has become necessary as a reasonable contingent item during actual execution of work will have to be done by the Contractor, if so directed by the Engineer-in-Charge and the rates will be fixed in the manner as stated below:-

(a) Rate of Supplementary items shall be analyzed in the 1st instant extended possible from the rates of the allied items of work appearing in the tender schedule.

(b) Rate of supplementary items shall be analyses to the maximum extent possible from rates of the allied items of work appearing in the schedule of rates of probable items of work as will be in force at the time of NIT.

(c) If the rates of the supplementary items cannot be computed even after application of clauses stated above, the same shall be determined by analysis from market rates of material, Labour and carriage cost prevailing at the time of execution of such items of work. Profit and overhead charges (both together) @ 10% (ten percent) will be allowed only. The contractual percentage will not be applicable.

(d) Black market rates shall never be allowed.

(f) It may be noted that the cases of supplementary items of claim shall not be entertained unless supported by entries in the Work Order Book or any written order from the tender accepting authority.

Collector & District Magistrate
Nuapada

ANNEXURE-A

Experience profile (in Non-Satutory cover)

List of projects completed that are similar in nature to the works executed for the last 5(five) financial years i.e. from FY 2013-2014 to FY 2017-2018

Name of Work	Name & Address of Agency	Value of the Work	Date of Completion

ANNEXURE - B
BILLS OF QUANTITY

SL	ITEM DESCRIPTION	UOM	QTY
1	Supply of 32 Ch. NVR H.265 & 4K Resolutions, 2 RJ-45 Ports (10/100/1000Mbps), 4 X USB Port, 1 Rs485 Port, 8 Sata Ports, 2 HDMI, 2 VGA (Make: Bosch/Dahua /Honeywell/Pelco)	Nos.	3
2	Supply of 4 MP Bullet Camera > 1/3" 3 Megapixel progressive CMOS or better > 2.8 -12mm Motorized Varifocal Lens or better > H.265 Triple -stream encoding > 20fps@4M(2688×1520)&25/30fps@3M(2304×1296) > WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC > Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS > Micro SD card slot, up to 128GB > Max IR LEDs Length 60m > IP67, PoE+ (Make: Bosch/Dahua /Honeywell/Pelco)	Nos.	84
3	IP IR ANPR Camera Resolution: 2.3 Megara or Better (1920X1200) Image Sensor: 1/1.9 Inch CMOS Lens Range: 10.5 ~ 42 mm or Better Camera Speed Shutter: 1/25~1/100000 WDR: 100 db or better Counting Range: 15 - 80m Traffic Data Counting: Upto 2 Lanes (Make: Bosch/Dahua /Honeywell/Pelco)	Nos.	6
4	GEPON L3 OLT Switch with 4 PON SFP ports with 4 Giga Ethernet Ports and 4 Giga SFP ports (Make: Digisol/Revo/Cisco)	Nos.	3
5	8 Port 10/100/1000 Poe L2 switch with 2 SFP Port, Power bought 130 watt. (Make: Digisol/Dahua/Cisco)	Nos.	35
6	1KVA UPS (Make: Microtek/Emerson/Luminus)	Nos.	35
7	2KVA UPS with battery backup for server room (Make: Microtek/Emerson/Luminus)	Nos.	1
8	Seagate make HDD 6TB (surveillance) (Make: Seagate/WD/Toshiba)	Mtrs.	16
9	6mm 2core Power cable (Make: Havells/Mescab/Finolex)	Nos.	2010
10	43" Commercial Display (Make: LG/Samsung /NEC)	Pair	3
11	Cat-6 UTP Network cable (Make: Digisol/Molex/Tyco)	Nos.	4000

12	6 core single mode armored Optical Fiber Cable with termination & Laying (Make: Digisol/Molex/Tyco)	Nos.	18000
13	12 U Floor Mount Network Rack with Fan - 04 Nos, Tray 04 Nos, 6 Socket PDU 02 Nos. (Make: Valrack/Netrack/D-Link)	Nos.	3
14	IP 66 JB for outdoor UPS & Switch fully loaded	Nos.	35
15	5Mtr GI Pole with Foundation for road side camera	Nos.	10
16	Installation, Testing and Commissioning Charges	Nos.	1

Note: The above mentioned quantities are tentative only, which may be increase or decrease as per requirement. Payment will be done on the actual consumption of the quantity.

DETAILED TECHNICAL SPECIFICATION

BULLET CAMERA

Sl No	Feature	Specification	Compliance (Yes/No)
1	Resolution	Minimum 2688 x1520 for high definition video quality	
2	Image Sensor	The camera should be equipped with a minimum of 1/3" CMOS sensor applying progressive scan technology to record more fluid footage and avoid distortion created by moving objects.	
3	Lens Range	The camera should be provided with an OEM fitted 2.7~13.5mm Motorized varifocal Lens	
4	Video Compression	H.265+/H.265/H.264+/H.264	
5	Frame Rate	The camera should capture images at a frame rate of 25/30fps @ 4M (2688×1520) so as to give a swift video output even in case of fast moving objects.	
6	Minimum Illumination	Color 0.03Lux/F1.4, 0Lux/F1.4(IR on)	
7	Privacy Masking	Camera should support up to 4 areas.	
8	Optical / Digital Zoom	Camera should support 5X Optical/ 16X Digital Zoom or better	
9	NAS Recording	Camera should support direct recording on NAS from 1st day	
10	Audio Compression	G.711a/ G.711Mu/ AAC/ G.726	
11	Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s	
12	S/N Ratio	More than 50dB	
13	ICR	The camera shall incorporate a physical ICR filter for quality images both during day and night	
14	IR Range	The camera should have inbuilt IR and cover distance up to 50 Mtr or above	
15	Video Streaming	The camera should output a master and two slave stream that are individually configurable. Should support Triple Streaming.	
16	ROI	The Camera should allow at least 4 sections of the camera view to be streamed separately for distinguished viewing and recording. Furthermore it should give the capability to configure these streams individually	
17	Backlight Compensation	BLC should allow adjusting the gain of the camera to improve exposure of the subjects that are in front of a bright light source	
18	Wide-Dynamic-Range	The camera should give a WDR range of minimum 120 dB Real WDR (Must be Hardware driven)	

19	Noise Reduction	3D-DNR	
20	Camera Tampering	The camera shall provide real time tampering protection by means of alerts generated at the software.	
21	Pre/Post Event Buffering	The camera should support a least of 3 seconds of pre & post event buffering.	
22	Event Notification	Through Relays, E-Mails or FTP	
23	Network	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP	
24	Security	Security Password protection, HTTPS (SSL, TLS), IP filtering, IEEE 802.1X	
25	Micro SD Slot	Should support upto a maximum of 128GB micro-SD	
26	Others	Exposure Control, AGC, White Balance, day/night	
27	Video Content Analytics supported by Camera	Motion detection	
28		Tripwire	
29		Intrusion	
30		Abandoned/Missing	
31		Scene Change	
32		Audio detect	
33		Face detection	
34		Crossing line	
35		Object removal	
36	Network Ethernet	RJ-45 (10/100Base-T)	
37	Alarm In/Out	2/1 channel In/Out	
38	Audio In/Out	1/1 so as to equip the camera with 2-way audio	
39	Video Port (BNC)	1 Port (For adjustment locally without network)	
40	Network Compatibility	PSIA, CGI	
41	Power Source	The network camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af to supply power to the camera over the network and DC12 V to supply local power in case of longer distance where PoE is not possible.	
42	Power Consumption	Not to exceed 14W	
43	Smart Phone	It should support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC	
44	Operation Temperature / Humidity	-30 °C to 60 °C / Less than 95% RH	
45	Weather Proof Standard	IP67 rated weather proofing standards	
46	Vandal	IK10 Vandal proof rating or better	

	Protection		
47	Open Protocol	ONVIF Profile S or higher	
48	Certifications	UL,FCC ,CE, ISO certified	

ANPR CAMERA

Sl No	Feature	Minimum Specification	Compliance (Yes/No)
	Minimum ANPR Camera Specification		
1	Resolution	2.3 Megara or Better	
2	Image Sensor	1/1.9 Inch CMOS	
3	Lens Range	11 ~ 40 mm or Better	
4	Image Compress Mode	JPEG	
5	HD Video Compression	H.264/H.265/MJPEG	
6	HD Image Resolution	1920 x 1200 Buzzer & Screen tips	
7	HD Video Resolution	1920 x 1200	
8	HD Video Frame Rate	50fps or Better	
9	Camera Speed Shutter	1/25~1/100000	
10	Multi-Channel Integration	Should Support	
11	Edge Enhancement	Should Support	
12	Dead Pixel Correction	Should Support File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
13	Automatic Noise Reduction	Should Support (3D Noise Reduction)	
14	Auto Exposure (AE)	Support (Full Auto/Custom Interval/Custom)	
15	Auto White Balance(AWB)	Support (Full Auto/Color Temperatuire Range Auto/Custom)	
16	Alarm Input Support	2 Input (Switch)	
17	Network Interface	1 No. 100/1000M Ethernet Port	
18	Data Interface	1 RS232 Serial Port, 2 RS485 Port, 1 GPS	
19	Auto Iris	Support P-Iris, DC-Iris	
20	WDR	120 db or better	
21	Lens Interface	CS Mount	
22	Video Detection Trigger	Should Support	
23	Inbuilt ANPR	Should Support	
24	Vehicle Logo Recognizing	Should Support	
25	Traffic Data Counting	Performance: Up to 1 Lane for traffic data counting Vehicle Type: Passenger Car, Large Truck, Mid Truck, Saloon Car, Micro Bus, Micro truck, Motorbike,	

		<p>Pedestrian</p> <p>Statistical data of each lane: time, date, statistical period , lane, vehicle type of each line</p> <p>SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Easy4ip</p>	
26	Counting Range	15 - 80m	
27	SD Card Storage	Should support	
28	Remote Control Function	Support through Web Client configuration and control	
29	OSD information superimposed	Support Information of the video include time and place (channel address), Lane information (number)	
30	Image Records Tamperresistance	Support, Video/Image With watermark Tech and check function	
31	Power Supply	AC 230V or 24V AC	
32	Operating Environment	Temperature -10 C ~ + 70 C, Humidity 10%~90%	
33	IR Illumination Range	40 Meters or above	
34	Outdoor	IP 66 or better	
Minimum Software requirement			
35	Device Management	<p>Add the devices via auto search, IP, Domain, IP Segment, auto register (for 3G, 4G, DHCP device).</p> <p>Through the ONVIF protocol to add third-party devices to manage.</p>	
36	Role and User Management	<p>Add, edit and delete the roles and users.</p> <p>Assign different roles with different permissions.</p> <p>User can be assigned with the roles to obtain the corresponding permissions.</p> <p>User can be limited by the MAC and expiry data.</p> <p>User can be locked.</p> <p>Support import domain user and assign roles to the user.</p>	
37	Event Management	<p>Detect the device exception, video events, alarm input and alarm host.</p> <p>Alarm Priority: Low, Medium, High.</p> <p>Linkage: Record, Snapshot, Live video, Alarm output, PTZ, Vida wall, E-mail.</p> <p>Add, edit, delete, enable and disable alarm scheme.</p>	
38	Playback	<p>Playback the record from Edge Server storage.</p> <p>Sync play, Reverse playback, Slow and fast forward, Playback frameby-</p>	

		<p>frame, Timeline zoom in and zoom out.</p> <p>Download the assigned records, support AVI and DAV format.</p> <p>Decode the video to Video Wall.</p>	
39	Video Wall	<p>Decode the real-time video to wall</p> <p>Decode the playback video to the Video Wall by decoder or matrix.</p> <p>Manually/automatically decode to wall.</p> <p>Control the Video Wall split</p> <p>Change the stream type of video channel.</p>	
40	Browser Version	<p>Internet Explorer: 9 / 10 / 11</p> <p>Chrome: 40.0.2214.91 and above</p> <p>Firefox: 40.0.2 and above</p> <p>W: 65.7°x49.6°x36.9°</p> <p>T: 5.2°x7°x5.2°</p> <p>Buzzer & Screen tips</p>	
41	Map	<p>View the live video and playback on the map</p> <p>Zoom in and zoom out the map</p> <p>Decode the video to Video Wall quickly</p> <p>Support to calculate the area or length for GIS map</p> <p>Support visible range and initial angle.</p>	
42	Statistic	<p>Overview and detail system information.</p> <p>Running status: CPU, Storage, Bandwidth.</p> <p>Online information of Service, Device and User, Device</p> <p>Health Report.</p> <p>Event information statistics: total events and processed</p>	
43	Total Device & Camera Channel handling capacity	<p>Minimum 500 Device & 1500 Video Channels</p>	
44	Report	<p>It should export the report in excel format</p>	
45	Addition Filter Feature	<p>It should support different filter option while exporting ANPR report, like specific number plate, date & time, vehicle type, vehicle color, channel no etc.</p>	

32 CHANNEL NVR

Sl No	Feature	Specification	Compliance (Yes/No)
1	Main Processor	NVR should have Quad-Core or better Embedded Processor	
2	Operating System	Embedded LINUX	
3	IP Camera Input	32 channels	
4	Two-way Talk	1 Channel Input, 1 Channel Output for both way audio communication	
5	Display Interface	1 HDMI, 1 VGA output for viewing	
6	Display Resolution	3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768	
7	Total Bandwidth	Max 640 Mbps bandwidth	
8	Display Split	1/4/8/9/16//25/36	
9	Support multiple brands	Should Support Multi-brand network cameras	
10	OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
11	Recording Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG	
12	Recording Resolution	12Mp, 8Mp, 6Mp, 5Mp, 3Mp, 1080P, 1.3Mp, 720P & D1 & etc.	
13	User Interface	GUI	
14	Motion Detection	MD Zones: 396 (22×18)	
15	Video Loss	Should support Video Loss	
16	Camera Blank	Should support Camera Blank	
17	Alarm In/ out	It should have 16 Ch In and 6 Ch Out	
18	Sync Playback	1/4/9/16	
19	Smart Phone	It should support remote monitoring over iPhone, iPad, Android and Windows Phone including desktop/PC	
20	Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search	
21	Backup Mode	USB Device/Network/eSATA Device	
22	Hard Disk	8 SATA ports with 8TB Surveillance Grade Hard disks each	
23	External HDD	1 eSATA up to 16TB	
24	Network Ethernet	2 RJ-45 ports (10/100/1000Mbps)	
25	RAID Support	Hardware RAID 0, 1, 5, 6, 10	
26	USB	4 USB ports or better	
27	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search etc	
28	Additional Interfaces	RS232: 1 port for PC & Keyboard communication, RS485: 1 port for PTZ control	
29	Additional Function	NVR should support various function of Automatic Number Plate Recognition (ANPR) camera.	

30		Fisheye Dewarping, PoS, ANR etc	
31	Smart Video Analytics	NVR should support various Video Analytics such as: Tripwire Intrusion Face Detection Motion Detection Tampering Scene Change People Counting Heatmap etc	
32	Max. User Access	Should support Min. 120 users	
33	Power Supply	AC 100V~240V, 50/60 Hz	
34	Power Consumption	<20W (without HDD)	
35	Working Environment	-10°C~+55°C / 10%~90%RH	
36	Open Protocol	Should support ONVIF Profile S or higher	
37	Certification	UL, FCC, CE, ISO certified	
38	Installation	Rack Mounted	
39	Additional Feature	Smart Fan which can automatically adjust speed according to temperature & need	

COMMERCIAL LED DISPLAY – 43”

Panel	Screen Size	43" or above
	Panel Technology	IPS
	Aspect Ratio	16:09
	Native Resolution	1,920 x 1,080 (Full HD)
	Brightness	450cd/m2 or higher
	Viewing Angle (H x V)	178 x 178
	Contrast Ratio	1,100 : 1 or higher
	Dynamic CR	4000,000 : 1 or higher
	Orientation	Portrait & Landscape
	Circuit board Protection	Dust & Humidity SRC Protection Coated
	Viewing Angle (H x V)	178 x 178 degree
Connectivity	Inputs	HDMI (2), DP, DVI-D, RGB, Audio, USB 3.0
	Outputs	DP, Audio
	External Control	RS232C in/out, RJ in, IR Receiver, Pixel Sensor
Environment Conditions	Operation Temperature	0 °C to 40 °C
	Operation Humidity	10 % to 80 %
Power	Power Supply	100-240V~, 50/60Hz
	Power Type	Built-In Power
	Power Consumption	Typ.100W , Smart Energy Saving 70W or better
Industrial Grade/ Certification	Safety	UL / cUL / CB / TUV / KC
	EMC	FCC Class "A" / CE / KCC
	Energy Star	Energy Star 7.0

BILLS OF QUANTITY

Name of Work: Supply, Installation and Commissioning of CCTV Surveillance System for Nuapada District, Odisha

SL	ITEM DESCRIPTION	UOM	QTY	UNIT RATE	AMOUNT
1	Supply of 32 Ch. NVR H.265 & 4K Resolutions, 1 RJ-45 Ports (10/100/1000Mbps), 4 X USB Port, 1 Rs485 Port, 8 Sata Ports, 2 HDMI, 2 VGA (Make: Bosch/Dahua /Honeywell/Pelco)	Nos.	3	135000	405000
2	Supply of 4 MP Bullet Camera > 1/3" 3 Megapixel progressive CMOS or better > 2.8 -12mm Motorized Varifocal Lens or better > H.265 dual-stream encoding > 20fps@4M(2688×1520)&25/30fps@3M(2304×1296) > WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC > Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS > Micro SD card slot, up to 128GB > Max IR LEDs Length 60m > IP67, PoE+ (Make: Bosch/Dahua /Honeywell/Pelco)	Nos.	84	33000	2772000
3	IP IR ANPR Camera Resolution: 2.3 Megara or Better (1920X1200) Image Sensor: 1/1.9 Inch CMOS Lens Range: 10.5 ~ 42 mm or Better Camera Speed Shutter: 1/25~1/100000 WDR: 100 db or better Counting Range: 15 - 80m Traffic Data Counting: Upto 2 Lanes (Make: Bosch/Dahua /Honeywell/Pelco)	Nos.	6	165000	990000
4	GEPON L3 OLT Switch with 4 PON SFP ports with 4 Giga Ethernet Ports and 4 Giga SFP ports (Make: Digisol/Revo/Cisco)	Nos.	3	75000	225000
5	8 Port 10/100/1000 Poe L2 switch with 2 SFP Port, Power bought 130 watt. (Make: Digisol/Dahua/Cisco)	Nos.	35	18000	630000
6	1KVA UPS (Make: Microtek/Emerson/APC)	Nos.	35	15000	525000
7	2KVA UPS with battery backup for server room (Make: Microtek/Emerson/APC)	Nos.	1	55000	55000
8	Seagate make HDD 6TB (surveillance) (Make: Seagate/WD/Toshiba)	Mtrs.	16	25300	404800
9	6mm 2core Power cable (Make: Havells/Mescab/Finolex)	Nos.	2000	50	100000
10	43" Commercial Display (Make: LG/Samsung /NEC)	Pair	3	72000	216000
11	Cat-6 STP Network cable (outdoor) (Make: Digisol/Molex/Tyco)	Nos.	4000	70	280000

SL	ITEM DESCRIPTION	UOM	QTY	UNIT RATE	AMOUNT
12	6 core single mode armored Optical Fiber Cable with termination & Laying (Make: Digisol/Molex/Tyco)	Nos.	18000	80	1440000
13	12 U Floor Mount Network Rack with Fan - 04 Nos, Tray 04 Nos, 6 Socket PDU 02 Nos. (Make: Valrack/Netrack/D-Link)	Nos.	3	22000	66000
14	IP 66 JB for outdoor UPS & Switch fully loaded	Nos.	35	8000	280000
15	5Mtr GI Pole with Foundation for road side camera	Nos.	10	11500	115000
16	Installation, Testing and Commissioning Charges	Nos.	1	300000	300000
Total Estimated Cost					8803800

Percentage rate quoted by agency:

_____ % (Excess /Less)
In words (_____ Excess /Less)

Signature of bidder