

**JHARKHAND ZOO AUTHORITY**  
**Chakala,Ormanjhi,Ranchi.**  
**Corrigendum -1/ Dated: 25.02.2017**

Tender No. : CCTV- 06/2016-17 Dated: 08.02.2017

Based upon the feedback received in the pre-bid meeting and also reassessment of the requirement the following changes have been made in tender document.

1.

Sl. No	Page Details	Description	As per Tender	Amended
01	P.No.2	Certification	CE/FCC/ISI	CE/FCC/ISI/UL/EN
02	P.N.3	Work Experience		Minimum three years experience with work order with completion certificate of networking/CCTV. The value of work order should not be less than 15 Lakhs each year in case of single order, and should not less than 10 lakhs of each order in case of more than one order.
03	P.N.3	Eligibility Criteria	Turn Over	Each Year turnover should be minimum 100 Lakhs.
04	P.No.10	PTZ Camera	1.3 MP	2.0MP(1920 x 1080)
		Focal Length	4.74mm to 84.6mm	4-140 mm
		Optical Zoom	18X	Optical Zoom 32X & digital Zoom16X
05	P.No.11	Play Quality	3MP/1080p/720p	5MP/3MP/1080p/UXGA/720P/VGA
06		Bullet/Dome	Manual vary focal	Motorized Vary focal/Fix Camera
08	Camera Distribution Points			Camera distribution points : 15

## 2. Specification of Camera and NVRs

Sl. No.		
<b>NETWORK DOME CAMERA</b>		
<b>01</b>	Megapixel	2 MP
	Resolution	1920 X 1080
	Lens	2.8-12mm motorized varifocal
	FPS	60FPS at all resolution(H265/H264)
	Streaming	H.265,H.264,MGPEG Codec Supported
	Day/Night	ICR Supported
	WDR	150dB Supported
	Detection	Loitering/Directional/Fog/Audio/Digital auto Tracking/Sound classification/tampering
	IR Viewable Length	50m
<b>NETWORK BULLET CAMERA</b>		
	Megapixel	2 MP
	Resolution	1920 X 1080
	Lens	2.8-12mm motorized varifocal
	FPS	60FPS at all resolution(H265/H264)
	Streaming	H.265,H.264,MGPEG Codec Supported
	Day/Night	ICR Supported
	WDR	150dB Supported
	Detection	Loitering/Directional/Fog/Audio/Digital auto Tracking/Sound classification/tampering
		IP 67/IP66,PoE/24VAC,12V DC, Bi-Directional audio support
<b>PTZ CAMERA</b>		
	Megapixel	2MP
	Resolution	1920 X 1080, 16:9 Full HD (1080p) Resolution Support
	Lens	4 -140 mm
	Zoom	32X IR corrected Zoom,16X digital zoom
	Streaming	Multiple streaming, H.264, MJPEG Duel Codec
	Day/Night	ICR
	WDR	120dB
		IP66, IK10,IR LED(2ea)
<b>NVR WITH BACKUP SOLUTION</b>		
	Channel	32CH, Max.
	Mega Pixel Support	12megapixel camera supported.
	Recording Tye	256Mbps network camera recording.
	Video Support	Support 4K video out on HDMI monitor, Support Dual monitor video out.
	Compression	H.265, H.264, MJPEG .
	HDD	Max 8 internal HDDs (48TB), e-SATA / i SCSI storage support, Support RAID 5.

3.

### REVISED BILL OF QUANTITY

#	Description	QTY
1	Supply and installation of Video Backup Solution 32 CH.(NVR) With 4TB X 5 Brand:- Pelco/Sony/Cisco/Samsung/Tyco/Bosch	03
2	Supply and installation of Anti-virus Software	02
3	Supply and configuration of video management software	86
4	Supply and installation of Desktop Computer with all accessories for Management:-Core-i7 1TB HDD, 8GBRAM , VGA Cards of 2GB, OS Windows 10, 20"LCD DISPLAY Resolution Brand:- HP/DELL/LENOVO	02
5	Supply and installation of 24-port GbE L2 Fiber Switch (with Backup/Redundant Power Supply) Brand:- Cisco/D-link/Systimax	02
6	Supply and installation of L2 Switches Poe 8 Port for end point Brand:- Cisco/ D-link/Systimax	15
7	Supply and installation of Outdoor Fixed Bullet Poe Bullet Camera Brand:- Pelco/Sony/Cisco/Samsung/Tyco/Bosch	64
8	Supply and installation of PTZ Dome Camera with accessories Brand:- Pelco/Sony/Cisco/Samsung/Tyco/Bosch	02
9	CAT6 UTP Cable(Box) Brand:- Cisco/D-link/Systimax	02
10	CAT6 Armored Cable(Meters) Brand:- Cisco/D-link/Systimax	3000
11	UTP Connector Box Brand:- Cisco/D-link/Systimax	01
12	12 Port LIU with 6 port loaded with pigtel and coupler SC Type single mode simplex Brand:- Cisco/D-link/Systimax	15
13	24 Port patch panel Unloaded Brand:- Cisco/D-link/Systimax	15
14	CAT 6 Key Stone Brand:- Cisco/D-link/Systimax	180
15	CAT 6 Patch cord 3 mtrs Brand:- Cisco/D-link/Systimax	208
16	Fiber SCSM Sipler Fiber Brand:- Cisco/D-link/Systimax	30
17	LIU Blank Panel SM Simplex Brand:- Cisco/D-link/Systimax	15
18	24 Port Loaded LIU with SC pigtel and coupler single mode simplex Brand:- Cisco/D-link/Systimax	06
19	42U Rack With Cantilever Shelve, Cable Manager,12 Socket PDU for Main Control Room Brand:- Cisco/D-link/Systimax	01

20	Supply and installation of 4U Outdoor Enclosure IP 66 Rated construction for dust and water protection rating Welded construction frame with high quality powder for weatherproof coating (UV & heat resistant) to ensure best quality product Standard 19" Rack mount design Wall-mount design with Pole fixing provision Fan mounting provision with ventilation provision Cable insertion on Top & Bottom panel to provide easy cable entry Provide reliable and long term protection to install IT, electrical, electronics and telecommunication equipment through rugged design Front section with Open able door with lock provision Dimension (W x D) = 550 x 400mm Brand:- Cisco/D-link/i-ball	15
21	Supply and installation of Indoor Fixed Dome PoE Camera Brand:- Pelco/Sony/Cisco/Samsung/Tyco/Bosch	20
22	Supply and installation of <b>OFC with accessories for Networking</b> - Laying of Armored OFC Cable –(Single Mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for lying of 4 Core Outdoor Armored OFC Cable. Fibre SC-Style, Single mode, 19-inch Rack, mount Patch Panel, 1U, is RoHS Compliant Aluminum Powder Coated Metal Box and Fully Loaded with SC adapter Plates Couplers with SC-Style Pigtailed. HDPE Pipe - 2" / 3", 1 inch PVC pipe and channel Brand:- Cisco/D-link/Systimax	20km
23	Server (Computer) for Network monitoring : Intel Xeon 3.1/4GB/1TB/20"/Windows server 2008 or higher/KB and mouse, wireless Ethernet 1GBe 2 Port Brand:- HP/DELL/LENOVO	01
24	Supply and installation of Professional LED Displays – 55" (Full HD) mounted:- LED DISPLAY Resolution : 1920 x 1080 minimum, High Contrast Ratio . Brand:- SONY/LG/SAMSUNG	02
25	Supply and installation of Network Color Laser Printers:-64MB RAM/Resolution 2400X600, 18PPM(Color/Mono) Brand:- HP/Brother/CANON	01
26	Supply and installation of Electrical Cabling & Necessary Illumination Devices:- Electrical wiring with Armored Cable and its underground laying. Electrical Wire specification: 3 x 10 mm 3 core cable) Copper wire. Brand:- Havells/Finolex/Anchor	5Km
27	Supply and installation of Comfort Spilt AC 1.5 TON with Accessories, Voltage corrector & installation. Brand:-LG/SAMSUNG	03
28	Supply and installation of ON LINE UPS with 1 Hrs Backup for Centralized Power, Capacity: 10 KVA in 2 Nos. Brand:-EATON/ACPL/CYBERPOWER	02
29	Supply and installation of ON LINE UPS with 1Hrs Backup for Centralized Power, Capacity: 05 KVA in 1 No. Brand:-EATON/ACPL/CYBERPOWER	01
30	Supply and installation of Single Mode Fiber transiver -SFP-LX-10-D 1000 Base LX. Brand:- Cisco/D-link/Systimax	30
31	Supply and Installation of Pole in size 15 Fit with weather proof box for electrical wiring termination and to place Power supply adaptor for Camera's. Brand:- Others	50
32	Supply and installation of Office Workstations (Furniture and Fixtures) for desktop computer, Server and DVRs etc. Brand:- Others	01 Set

#### **4. REVISED FINANCIAL BID FORMAT**

Sl.	Item Description	Qty.	Brand	Unit Rate	Total (Inclusive all Taxes)
<b>01</b>	Supply and installation of Video Backup Solution 32 CH.(NVR) With 4TB X 5 Brand:- Pelco/Sony/Cisco/Samsung/Tyco/Bosch	<b>03</b>			
<b>02</b>	Supply and installation of Anti-virus Software	<b>02</b>			
<b>03</b>	Supply and configuration of video management software	<b>86</b>			
<b>04</b>	Supply and installation of Desktop Computer with all accessories for Management:-Core-i7 1TB HDD, 8GBRAM , VGA Cards of 2GB, OS Windows 10, 20"LCD DISPLAY Resolution Brand:- HP/DELL/LENOVO	<b>02</b>			
<b>05</b>	Supply and installation of 24-port GbE L2 Fiber Switch (with Backup/Redundant Power Supply) Brand:- Cisco/D-link/Systimax	<b>02</b>			
<b>06</b>	Supply and installation of L2 Switches Poe 8 Port for end point Brand:- Brand:- Cisco/D-link/Systimax	<b>15</b>			
<b>07</b>	Supply and installation of Outdoor Fixed Bullet Poe Bullet Camera Brand:-Pelco/Sony/Cisco/Samsung/Tyco/Bosch	<b>64</b>			
<b>08</b>	Supply and installation of PTZ Dome Camera with accessories Brand:- Pelco/Sony/Cisco/Samsung/Tyco/Bosch	<b>02</b>			
<b>09</b>	CAT6 UTP Cable(Box) Brand:- Cisco/D-link/Systimax	<b>02</b>			
<b>10</b>	CAT6 Armomured Cable(Meters) Brand:- Cisco/D-link/Systimax	<b>3000</b>			
<b>11</b>	UTP Connector Box Brand:- Cisco/D-link/Systimax	<b>01</b>			
<b>12</b>	12 Port LIU with 6 port loaded with pigtel and coupler SC Type single mode simplex Brand:- Cisco/D-link/Systimax	<b>15</b>			
<b>13</b>	24 Port patch pannel Unloaded Brand:- Cisco/D-link/Systimax	<b>15</b>			
<b>14</b>	CAT 6 Key Stone Brand:- Cisco/D-link/Systimax	<b>180</b>			

15	CAT 6 Patch cord 3 mtrs Brand:- Cisco/D-link/Systimax	208			
16	Fiber SCSM Sipler Fiber Brand:- Cisco/ D-link/Systimax	30			
17	LIU Blank Panel SM Simplex Brand:- Cisco/ D-link/Systimax	15			
18	24 Port Loaded LIU with SC pigtel and coupler single mode simplex Brand:- Cisco/D-link/Systimax	06			
19	42U Rack With Cantilever Shelve,Cable Manager,12 Socket PDU for Main Control Room Brand:- Cisco/ D-link/Systimax	01			
20	Supply and installation of 4U Outdoor Enclosure IP 66 Rated construction for dust and water protection rating Welded construction frame with high quality powder for weatherproof coating (UV & heat resistant) to ensure best quality product Standard 19" Rack mount design Wall- mount design with Pole fixing provision Fan mounting provision with ventilation provision Cable insertion on Top & Bottom panel to provide easy cable entry Provide reliable and long term protection to install IT, electrical, electronics and telecommunication equipment through rugged design Front section with Open able door with lock provision Dimension (W x D) = 550 x 400mm Brand:- Cisco/D- link/Iball	15			
21	Supply and installation of Indoor Fixed Dome PoE Camera Brand:- Cisco/Sony/Cisco/Samsung/Tyco /Bosch	20			
22	Supply and installation of <b>OFC with accessories for Networking</b> - Laying of Armored OFC Cable –(Single Mode) Digging & Refilling of 2 ft Depth of Soft / Hard soil for the laying of 6 Core Outdoor OFC Cable. Road Cutting, Trenching and relaying on concrete / black top road for lying of 4 Core Outdoor Armored OFC Cable. Fibre SC-Style, Single mode, 19-inch Rack, mount Patch Panel, 1U, is RoHS Compliant Aluminum Powder Coated Metal Box and Fully	20KM			

	Loaded with SC adapter Plates Couplers with SC-Style Pigtaills. HDPE Pipe - 2" / 3", 1 inch PVC pipe and channel Brand:- Cisco/D-link/Systimax				
<b>23</b>	Server (Computer) for Network monitoring : Intel Xeon 3.1/4GB/1TB/20"/Windows server 2008 or higher/KB and mouse, wireless Ethernet 1GBe 2 Port Brand:- HP/DELL/LENOVO	<b>01</b>			
<b>24</b>	Supply and installation of Professional LED Displays – 55” (Full HD) mounted:- LED DISPLAY Resolution : 1920 x 1080 minimum, High Contrast Ratio . Brand:- SONY/LG/SAMSUNG	<b>02</b>			
<b>25</b>	Supply and installation of Network Color Laser Printers:- 64MB RAM/Resolution 2400X600, 18PPM(Color/Mono) Brand:- HP/Brother/CANON	<b>01</b>			
<b>26</b>	Supply and installation of Electrical Cabling & Necessary Illumination Devices:- Electrical wiring with Armored Cable and its underground laying. Electrical Wire specification: 3 x 10 mm 3 core cable) Copper wire. Brand:- Havells/Finolex/Anchor	<b>5KM</b>			
<b>27</b>	Supply and installation of Comfort Split AC 1.5 TON with Accessories, Voltage corrector & installation. Brand:- LG/SAMSUNG	<b>03</b>			
<b>28</b>	Supply and installation of ON LINE UPS with 1 Hrs Backup for Centralized Power, Capacity: 10 KVA in 2 Nos. Brand:- EATON/ACPL/CYBERPOWER	<b>02</b>			
<b>29</b>	Supply and installation of ON LINE UPS with 1Hrs Backup for Centralized Power, Capacity: 05 KVA in 1 No. Brand:- EATON/ACPL/CYBERPOWER	<b>01</b>			
<b>30</b>	Supply and installation of Single Mode Fiber transiver -SFP-LX-10-D 1000 Base LX. Brand:- Cisco/ D-link/Systimax	<b>30</b>			

31	Supply and Installation of Pole in size 15 Fit with weather proof box for electrical wiring termination and to place Power supply adaptor for Camera's. Brand:- Others	50			
32	Supply and installation of Office Workstations (Furniture and Fixtures) for desktop computer, Server and DVRs etc. Brand:- Others	01 Set			
<b>Grand Total</b>					
<b>Sl. No</b>	<b>Item Description</b>		<b>Rate</b>	<b>Amount</b>	
01	AMC charge for 3rd Year				
02	AMC charge for 4th Year				
03	AMC charge for 5th Year				
<b>Grand Total</b>					

**Note: - The cost of AMC should not be more than 6% of the total project cost. However, the cost of AMC shall not be considered for award of the work.**



**5. Project Completion period** has been revised to 60 days from the date of Issue of LOI.

**6.** The tender shall be opened on schedule date in presence of bidders for examination of documents for eligibility. The outcome of this scrutiny shall be uploaded on the website and eligible bidders shall be called for PPT on a subsequent date for technical evaluation. Only technically qualified bidders shall participate in financial bid opening.

### **7. Extension of Date**

1. Last Date for submission of Tender : 09.03.2017(3.00 PM)

2. Date of opening of tender & examination of document for eligibility : 10.03.2017 (2.30 PM)

3. Venue shall be remain the same

Member Secretary,  
Jharkhand Zoo Authority,  
Ranchi.

**8. Layout showing control room and camera distribution points. :-**

