

**GOVERNMENT OF INDIA
OFFICE OF THE SUPERINTENDING ARCHAEOLOGIST
ARCHAEOLOGICAL SURVEY OF INDIA
BHUBANESWAR CIRCLE, TOSHALI APARTMENT, BLOCK-VI
SATYANAGAR, BHUBANESWAR - (ORISSA)**

No.: 5/1/186/14-15-W-6703 to 14

Dated.22.12.2014

NOTICE INVITING TENDER
(TWO COVER SYSTEM – Technical & Commercial Bids)

For and on behalf of The President of India, the Superintending Archaeologist, ASI, Bhubaneswar Circle, Bhubaneswar invites sealed tender in two bid system from the qualified & reputed bidder/ firms for the **“Supply, Installation & Commissioning of Network Video Surveillance along with Auto Mesh wireless connectivity at Sun Temple, Konark, A World Heritage centrally protected monument”**.

- The details of tender notification can be seen and downloaded from our official websites: www.asi.nic.in/www.asibbsrcircle.in and eprocure.gov.in

- IMPORTANT DATES**

Sale of bid Documents up to:	13.01.2015 upto 15.00hrs
Last Date of submission of bids:	15.01.2015 upto14.00hrs
Opening of Technical bids:	15.01.2015upto15.30hrs
Opening of Price Bids	Will be informed to the bidders who have qualified in the Cover I Technical Bid (Annexure I (A) & I (B)) at a later date

Sl No	Specifications of work	QTY	Rate	Remaks
01	Outdoor Heavy duty, Pan/Tilt, Day and Night network surveillance camera	07Nos		Execution of work at Sun Temple, Konark, Odisha Time period:- 180 days (6 calendar months)
02	Camera- Thermal network surveillance	02 Nos		
03	Camera- Outdoor Fixed Night vision network camera	10 Nos		
04	Multicast streaming applications	19 Nos		
05	Network Video surveillance wireless connectivity	19 Nos		
06	Mounting Structures	19 Nos		
07	Network Video Surveillance Management Software	19 Ch.		
08	Network Video Management central monitoring server	01 No		
09	Network video surveillance central monitoring Control board	01 No		
10	Providing metal door frame for regulating the visitor's entry to the monument	01 No		
11	Installation charges	L.S		
		Total	1,84,51,574/-	

- The bid is of two cover system – Cover 1: Technical bid (Annexure I (A) & I (B)) and Cover 2: Price bid (Annexure II)
- Qualified and reputed bidders shall submit Tenders (both Cover - 1 Technical Bid & Cover 2 Price Bid) within the date and time published to Superintending Archaeologist, Bhubaneswar Circle, Archeological Survey of India, Puratattva Nivas complex, Toshali Apartment, Block.VI(B).Satya Nagar, Bhubaneswar - 751007, Odisha. First Cover (Technical Bid Annexure I (A) & I (B)) of Tender will be and it will be opened on same day at 15:30 hours in the office of the Superintending Archaeologist, Bhubaneswar Circle, Archeological Survey of India, Puratattva Nivas complex, Toshali Apartment, Block.VI(B).Satya Nagar, Bhubaneswar -751007, Odisha in the presence of the bidder(s) or their authorized representative(s) , who ever will be present at the scheduled date and time. Opening of Cover-2 (price bid) will be intimated later to the bidders who have qualified in the Cover 1 Technical Bid (Annexure I (A) & I (B)
- Technical Bid should contain the copies of the proof as mentioned in ANNEXURE –I (A): Technical Eligibility
- The sealed Tender should reach the above mentioned address, latest by 15.01.2015 at 14:00 Hours.
- Tenders must be accompanied by Earnest Money Deposit of Rs.3,69,031 (2% of the tender cost) which should be paid by Demand Draft favoring “Superintending Archaeologist, Bhubaneswar Circle” payable at Bhubaneswar at the time of submission of bids along with the Technical Bid.

SCOPE OF WORK:

Supply, installation and commissioning of network video surveillance with wireless connectivity within the Sun Temple complex at Konark. The Sun Temple at Konark is a UNESCO world heritage monument under the Archeological Survey of India, Bhubaneswar Circle, Bhubaneswar, Odisha.

The purpose is to provide and increase security to the Sun Temple a UNESCO world heritage monument visited by many tourists around the world. The main objectives are:

1. 24/7 security, vigil and monitoring of the site.
2. Monitor, track and prevent and inform the concerned authorities of any untoward incidents within the monument.
3. Supply, install and commission network video surveillance using auto mesh wireless connectivity within the monument without the use any cables.
4. Supply, install and commission network video surveillance using auto mesh wireless connectivity within the monument without the use any screws, nut & bolts, drilling or creating any visual and sound impact to the monument.

GENERAL CONDITIONS:

1. Preparation and Submission of Tender: The tender should be submitted in two parts i.e. **Technical Bid** and **Price Bid**. The Technical Bid and the Price Bid should be sealed by the bidder in two separate covers "Price Bid super-scribed with tender number" and "Price Bid super-scribed with tender number ". Both Sealed Envelopes should be kept in a main/ bigger envelope super-scribed as with "**TENDER NUMBER**". Tender not adhering to this condition will be rejected.
2. The Price Bids (Annexure II) of bidders who have qualified in the Technical Bid (Cover I – Annexure I (A) and Annexure I (B)) only will be opened and the rest will be rejected.
3. Earnest Money Deposit: The bidder shall be required to submit refundable amount of **RS.3,69,031/-** (Rupees Three lakh Sixty nine thousand and Thirty one only) as Earnest Money Deposit (EMD) and a non-refundable tender fee for an amount of 1,050/-(Rupees One thousand and fifty only) (1000/- for tender cost and 5% for VAT) by way of demand drafts only. The demand drafts shall be drawn in favour of "**Superintending Archaeologist, Bhubaneswar circle**" payable **Bhubaneswar**. The demand drafts for earnest money deposit must be enclosed in the envelope containing the **COVER- I (Technical Bid)**. The EMD of the successful bidder shall be returned after the successful completion of contract / order and for unsuccessful bidder(s) it would be returned after award of the contract. Bid(s) received without demand draft of EMD / Tender Fees will be rejected.
4. Currency: Rate should be quoted in Indian Rupees (INR) including all taxes, transportation, loading and unloading charges etc on Door Delivery Basis at Sun Temple, Konark, inclusive of all the freight and insurance Charges.
5. The bidder should clearly show the VAT or CST, Service Tax as applicable clearly in the Price schedule in the Price Bid.
6. Validity: The rates quoted by the bidder must be valid for a period of 180 days from the date of the bid. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it will be rejected. In case the bidder withdraws, modifies or change their offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The bidder should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.
7. Warranty: 02 years Warranty from the date of installation & commissioning to be provided by the bidder.
8. Delivery: All the goods ordered must be delivered within 2 weeks from the date of issuing purchase/work order. All the aspects of safe delivery and commissioning shall be the exclusive responsibility of the supplier.
9. Payment Term: To be made according to the completion of work, being verified by the Gazetted Officer/Engineering Officer of Bhubaneswar Circle.

10. Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.
11. Signed & stamped compliance sheet of the technical specification of the goods must be enclosed with the Technical Bid along with all technical literature of your product.
12. The bidder must ensure that their installation & commissioning team of people are adequately insured and will be solely responsible for any mishaps or accidents to their team in the site.
13. The bidder agrees to ensure that no damage is caused to the monument by their team of people during installation & commissioning. Damages caused if any, the bidder agrees to pay for the damages caused as instructed/directed by the Superintending Archaeologist.
14. The Superintending Archaeologist Bhubaneswar Circle reserves the right to accept in part or in full or reject any or more quotation(s) without assigning any reasons or cancel the tendering process or and reject all quotations at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
15. Machinery and Equipments brought to the site by the Agency at their own risk.
16. Contract may terminate at any time without any prior notice if service of bidder not found satisfactory.
17. The company/agency/contractor shall bear cost of various incidentals, sundries and contingencies necessitated by work e.g. Rent, Royalties, Cess and other charges of materials, Octroi and all other taxes including prevailing Sales Tax/VAT, EPF/ESI from time to time. Ferry tolls, conveyance charges and other cost.
18. Time period allowed : 180 days (6 months)

Superintending Archaeologist
Archaeological Survey of India
Bhubaneswar Circle, Bhubaneswar

COVER-I (Technical Bid)
ANNEXURE –I (A): Technical Eligibility

(All Conditions Mandatory)

SL No.	Technical Eligibility	Compliance (Yes/No)	Document enclosed (Yes/No)
01	The bidder must have supplied, installed & commissioned the similar order at any archeological/ heritage centrally protected monument in India in last 03 financial years.		
02	The bidder must have experience in supply, installation & commissioning similar orders at three (03) Archeological heritage sites anywhere in India. Project completion satisfactory certificate should be enclosed.		
03	The bidder must produce Manufacturer authorization from the OEM/Manufacturer if the OEM/ Manufacturer are not the bidder.		
04	The bidder should have a minimum experience of 05 years in sales and after sales support of network surveillance cameras.		
05	The Bidder must be a Pvt. Ltd or a Ltd. Company, registered with Registrar of Companies under the Companies Act, 1956. He should produce Turn over certificate for last 03 financial years to be certified by the chartered accountant.		
06	The bidder must have a relevant VAT, Service Tax registration. The copies of the registration certificate to be enclosed.		
07	The bidder must furnish latest VAT clearance certificate.		
08	Copies of balance Sheet, Profit and Loss Account for last three years duly certified by the Chartered Accountant of the bidder must be enclosed.		
10	The bidder should have at-least two OEM/manufacturer certified engineers who must be part of the installation team. Certificate copy to be enclosed.		
11	The bidder must be certified for technical capability, quality of the services and process of execution of similar projects by any electronics specialist government agencies /Undertakings in India for FY 2012-13 & 2013-2014.		
12	Wireless Surveillance Connectivity: The bidder must have an experience of installation and commissioning of Integrated Network Video Surveillance connectivity on a Wireless system without the use of any cables.		
13	The bidder must have an experience of installing fully Integrated Network Video Surveillance (Video Wall, Wireless, PA System, Fire detection system, Access Control) at any protected Heritage Monument with not less than 100 cameras connected with a central command center/control room solution. Performance certificate must be enclosed.		
14	The Network Surveillance Camera OEM/Manufacturer should have an average turnover of 30% of the estimate cost for the previous financial years specifically in the same domain. Document for the same should be furnished.		
15	Consortiums and Joint/Group bidding will not be accepted.		
16	The bidder shall not assign or sublet or outsource or sub contract this order/contract or any part thereof to any other agency/Company/Firm either in Private or Govt.		

17	Undertaking by the bidder on Rs.100.00 stamp paper duly notarized stating that the bidder was not disqualified by any Government Department / Agencies and is not blacklisted by any Government agencies in the past under any Act and Rules		
18	Delivery Installation and commissioning: Within 45 days from date of issue of purchase order. Any delays thereafter a penalty of 1.75% of the total order value will be levied every week for maximum of four weeks and if any delay beyond four weeks thereafter, the contract awarded to the bidder stands cancelled and the EMD amount will be forfeited.		
19	Warranty: All products will stand for minimum three years (03) onsite all comprehensive warranty from the date of installation for manufacturing defects. During the warranty period the bidder shall have to provide monthly preventive service calls duly certified by the concerned officer and shall have to attend all breakdown calls within 04 hours from receiving the service/complaint either orally or written.		
20	Dedicated Two (02) on site support engineers certified by the OEM must be provided during the tenure of the warranty period who will be responsible for smooth functioning, maintenance and handle all support activities on the site.		
21	RMA Support response in 03 Working days with Advance Replacement Policy duly certified by OEM/Manufacturer.		
22	The bidder must be ISO 9001:2008 certified company. Valid certificate must be enclosed.		
23	All the network cameras supplied must be certified for:		
	<ul style="list-style-type: none"> UL, CE, EN55022, EN55024, FCC part 15 – Subpart B, VCCI, ICES-003, IP66 		
	<ul style="list-style-type: none"> The network cameras for 1MP and 2MP supplied must meet the SMTPE video standards: SMTPE 296M (HDTV 720p). 		
	<ul style="list-style-type: none"> The network cameras supplied must meet the ISO/IEC 14496-10 AVC (H.264) video compression standards. 		
	<ul style="list-style-type: none"> The network cameras supplied must meet the IEC 60529 (IP66) environmental protection standards. 		
	<ul style="list-style-type: none"> The network cameras supplied must be manufactured in accordance with the ISO 9001 standards. 		
	<ul style="list-style-type: none"> The network cameras supplied must be compliant with 2002/95/RoHS and 2002/96/EG WEEE. 		
24	The network cameras supplied must have In-house Processor for Bandwidth Compensation & Edge Analytics.		
25	The network surveillance cameras must support multiple streams with minimum 05 streams on H.264		
26	The network surveillance cameras must have Shutter speed of 1/10000s TO 4s, 1/28000 to 2s).		
27	The network surveillance PTZ cameras must have Tilt angle 220 deg.		
29	The network surveillance cameras must have minimum RAM on processor 512 MB RAM, 128 MB Flash.		
28	The network surveillance cameras must have Onboard Edge storage of 64 GB.		
29	All network surveillance cameras supplied must be from one single OEM.		
30	The network surveillance cameras manufactured or assembled in China, Taiwan or Korea will not be accepted.		

ANNEXURE –I (B)

Detailed Technical Specifications of Network Surveillance Cameras, Software and Display Systems

1. Outdoor Heavy duty, Pan/Tilt, Day and Night network surveillance camera with the following specifications:

(*Mandatory, # Desirable)

Feature	Specification Minimum Required	Compliance (Yes/No)
Image Sensor #	1/3” Progressive Scan CCD/CMOS (with IR cut filter)	
Lens*	32X (HD) optical Zoom(4.4-132mm, F 1.4-4.6) or better	
Digital Zoom*	12x or better	
Resolution*	Up to 1280x720, @ 25 fps, Should support PAL Indian standard	
Frame rate*	H.264: Up to 25 fps selectable	
Focus*	Automatic	
Horizontal Angle*	62.9 ⁰ – 2 ⁰ or better	
Minimum Illumination*	Color 0.5lux(1/30 sec), BW 0.04 lux(1/30 sec)@30IRE	
Pan*	360 ⁰ endless Continuous	
Tilt*	220 ⁰ or better	
Pan/Tilt*	Preset Speed: Pan & Tilt 0.5 ⁰ – 450 ⁰ / sec or better	
Day / Night Functions*	Day / Night, Automatic switch over from Color to B/W	
Network Interface	10/100 base TX, RJ 45	
Mechanical IR cut filter #	Yes	
Preset*	256 preset positions minimum with Control queue and On-screen directional indicator	
Shutter time*	1/10000 to 1/4secs or better	
Video Compression #	H.264 (MPEG-4 Part 10/AVC)	
Video streaming*	Multi-stream with variable/ configurable frame rate & bit rate for preview and recording H.264 /MJPEG Video	
Audio Streaming*	Two-way	
Alarm inputs/ Outputs*	Minimum configurable 8 input or output	
Intelligence*	Built-in hardware, intelligent motion detection, Auto Tracking, Shock detection	

Image settings*	Wide dynamic range (WDR), electronic image stabilization (EIS), Manual shutter time, compression, colour, brightness, sharpness, white Balance, exposure control, exposure zones, backlight compensation ,Text and Image overlay with atleast 30 privacy mask zone	
Security*	Password protection, IP addresses filtering, ,User access logs.	
Supported protocols*	IPv4/v6, HTTP, QoS, FTP, SMTP, UPnP, SNMP, RTP, TCP, UDP, IGMP, RTCP, ICMP, SOCKS,DHCP,HTTPS,NTP,SSL,TLS,SRTP,SSH,QoS	
Users*	5 or more simultaneous Users/Unlimited users in multicast mode.	
Power*	230V AC +/- 5% , 50 Hz, Suitable Power adapter, POE+	
Mount	Pole/Wall mount	
Casing*	IP66 - rated casing, Nema4X with sunshield, IK-10 RATEDmetal Vandal proof housing	
Certifications*	UL, CE, FCC.& EN	
Operating Temperature #	-40°C to + 50°C or better	
Accessories #	Power supply, other mountings and connector kits, Installation Guide, CD with installation tools, Recording software and User's Manual, Installation, Management tools, Service manual and QC test report.	
Compatible standard and Protocol*	ONVIF Profile S Support	
Local storage*	SD/SDHC/SDXC, 64Gb – speed class 10	
Defog *	Automatic defog functionality	
Open Platform*	Vendor to provide open API for future integration	

2. Thermal network surveillance camera with the following specifications:

(*Mandatory, # Desirable)

Feature	Specification Minimum Required			Compliance (Yes/No)
Image sensor*	Uncooled Micro bolometer 160x120, pixel size: 25 μm, spectral range: 8-14μm			
Lens*	f 13 mm, F1.25. Angle of view, horizontal: 17°			
Detection range*		Human 1.8 x 0.5 m	Vehicle Vehicle: 1.4 x 4.0 m	
	Detection (1.5 pixels on target)	260 m / 284 yd.	800 m / 875 yd.	
	Recognition (6 pixels on target)	65 m / 71 yd.	200 m / 219 yd.	
	Identification (12 pixels on target)	30 m / 33 yd.	100 m / 109 yd.	
	Calculated with Johnson's criteria. The detection range varies in different weather conditions.			
Sensitivity*	NETD < 100 mK			
Video compression#	H.264 (MPEG-4 Part 10/AVC) Motion JPEG			
Resolutions*	Sensor is 160x128. Image can be scaled up to 720x576 (D1) and to standard VGA resolutions			
Frame rate*	8.33 fps			
Video streaming*	At least 5 streams in H.264 and Motion JPEG: simultaneous, individually configured streams in max. resolution at 8.33 fps Controllable frame rate and bandwidth. VBR/CBR H.264			
Image settings#	Compression, brightness, exposure control, rotation, mirroring of images, text and image overlay, privacy mask, multiple palettes			
Audio streaming*	Two-way, half duplex			
Audio compression*	AAC LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate			
Audio input/output Security*	External microphone or line input, line output Password protection, IP address filtering, HTTPS* encryption, IEEE 802.1X* network access control, digest authentication, user access log			
Supported protocols*	IPv4/v6, HTTP, HTTPS*, QoS Layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS. Wide range of PT heads supported (drivers available for download at www.axis.com).			
Intelligent video*	Video motion detection, active tampering alarm, audio detection. enables installation of additional applications			

Alarm triggers*	Intelligent video and external input	
Alarm events & Casing*	File upload via FTP, HTTP and email; notification via email, HTTP and TCP; external output activation Factory fitted IP66-rated aluminum casing and a germanium window Vandal proof	
Processor and memory*	128 MB RAM, 128 MB Flash	
Power #	Power over Ethernet IEEE 802.3af Class 3 8-20 V DC / 20-24 V AC 50-60 Hz max 13 W, max 18 VA Power supply not included	
Connectors*	RJ-45 10BASE-T/100BASE-TX PoE, terminal block for power, terminal block for two configurable inputs/outputs 3.5 mm mic/line in, 3.5 mm line out RS-422/RS-485 Terminal block for heater	
Local storage*	SD/SDHC memory card 64 GB	
Operating conditions*	Shock resistance: 70 g shock pulse with a 11 ms half-sine profile Vibration resistance: 4.3 g random vibration for 8 hours (three axes) -40 °C to 50 °C (-40 °F to 122 °F), IP66	
Certifications*	EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 50121-4, EN 61000-6-1, EN 61000-6-2, EN 60950-1, FCC Part 15, Subpart B, Class B, VCCI, Class B ITE, C-tick AS/NZS CISPR 22, ICES-003, Class B, IP66	

3. Outdoor Fixed Night vision network camera

Feature	Specification Minimum Required	Compliance (Yes/No)
Image sensor	1/25 "Progressive scan CCD/CMOS(WITH IR cut filter)	
Lens*	3X(HD) optical zoom (3.3-9.8mm, F 1.6) or better	
Day and night*	Day /Night Automatic switch over from color to B/W removable infrared-cut filter	
Minimum illumination *	Color: 1.4 lux, F1.6, B/W: 0.3 lux, F1.6	
Shutter time*	1/28000 to 2 s	
Video compression*	H.264 (MPEG-4 Part 10/AVC), H.264 Main and Baseline Profile, Motion JPEG	
Resolutions*	UP to 3840x2160 4k Ultra HD, @ 25 fps, Should support PAL Indian standard	
Frame rate #	H.264 : Up to 25fpsselectable	
Focus #	Automatic	
Horizontal Angle *	109 -35 or better	

Video streaming*	Multi-stream with variable/ configurable frame rate & bit rate for preview and recording H.264 / MJPEG Video	
Image settings *	Wide dynamic range (WDR), electronic image stabilization (EIS), Manual shutter time, compression, colour, brightness, sharpness, white Balance, exposure control, exposure zones, backlight compensation ,Text and Image overlay , privacy masking	
Security #	Password protection, IP address filtering, HTTPSc encryption, IEEE 802.1Xc network access control, Digest authentication, User access log	
Supported protocols #	IPv4/v6, HTTP, HTTPSc, SSL/TLS, QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	
Intelligent video #	Video motion detection, Active tampering alarm, Audio detection, Support for Application Platform enabling, installation of additional applications	
Event triggers #	Intelligent video, Edge storage events, External input Shock detection	
Event actions #	File upload: FTP, HTTP, HTTPS, network share and email Notification: email, HTTP, HTTPS and TCP Video and audio recording to edge storage Pre- and post-alarm video buffering External output activation, Day/night vision mode, Play audio clip, Status LED Overlay text, Send Video Clip	
Data streaming #	Event data	
Built-in installation aids #	Focus assistant, Pixel counter, Remote back focus Leveling assistant	
Casing*	IP66 - rated casing, Nema 4X rated Casing	
Mount	Wall Mount	
Memory*	1024MB RAM, 256 MB Flash	
Power *	230V AC +/- 5% , 50 Hz, Suitable Power adapter, POE Class 3	
Connectors #	RJ45 10BASE-T/100BASE-TX PoE, 3.5 mm mic/line in, 3.5 mm line out :DC input Terminal block for 1 alarm input and 1 output (12 V DC output, max. load 50 mA)	
Edge storage*	Support for recording to dedicated network-attached storage (NAS) SD/SDHC/SDXC memory card 64 GB- speed class 10	
Operating conditions*	40°C to + 50°C or better ; Humidity 10-100% or better	

Certifications *	EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, EN 55024, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, C-tick AS/NZS CISPR 22 Class A, KCC KN22 Class B, KN24, IEC/EN/UL 60950-1, IEC/EN/UL 60950-22, IEC/EN 60529 IP66, NEMA 250 type 4x, IEC 60721-3-4 Class 4M3, IEC 60721-4-4 Class 4K1, IEC 60068-2, EN 55022 Class B	
Compatible standard and Protocol *	ONVIF Profile S Support	
Open Platform	Vendor to provide open API for future integration	

4. Multicast streaming applications *

Feature	Specification Minimum Required	Compliance (Yes/No)
	Network video management multi streaming multicast license capable of up to 10 streams	

5. Network Video surveillance wireless connectivity*

Specification Minimum Required	Compliance (Yes/No)
AutoMesh Protocol, Security and Encryption: WPA/WPA2 Wireless encryption, 128 bit / 256 bit end-to-end AES, MAC address filtering, Digitally signed firmware files, Digital certificates on nodes, Wireless Interface: IEEE 802.11a/b/g/n ad hoc, Transmit power: up to 400 mW for 2.4/5 Ghz radio & 500 mW for 900 Mhz radio, Frequency ranges: 902 – 928 Mhz 2.412 – 2.483 GHz , 4.94 – 4.99 GHz, 5.25 – 5.35 GHz, 5.470 – 5.725 GHz, 5.725 – 5.825 GHz Receive sensitivity (typical), 900 Mhz, DSSS, 1 Mbps: -94 dBm, 11 Mbps: -89 dBm, 900 Mhz, OFDM, 6 Mbps: -91 dBm, 54 Mbps: -71 dBm, 2.4 GHz, DSSS, 1 Mbps: -95 dBm, 11 Mbps: -88 dBm 2.4 GHz, OFDM, 6 Mbps: -90 dBm, 54 Mbps: -73 dBm, 5 GHz, 6 Mbps: -90 dBm, 54 Mbps: -73 dBm, Dynamic Frequency Selection (DFS), Transmit Power Control (TPC), Network Ports: Three GigE 10/100/1000 Mbps, Ethernet ports with weatherproof, connectors, LED activity indicator, IEEE 802.3, 802.3u compliant, CSMA/CD 10/100 autosense, Ports 2, 3 PSE Power over Ethernet per 802.3af, Enclosure: Cast aluminum NEMA-4X/IP66, enclosure, Six type-N female antenna connectors, Two weatherproof power connectors, Three weatherproof Ethernet connectors, Outdoor MIMO-802.11n capable, Dual Radio, Tri Band Spectrum 5 GHz, 400 mW, Wireless Mesh Node. 5 meter North America AC power cable, six 2.4 GHz 5 dBi antennas, six 5 GHz 5 dBi antennas, 3 RJ45 weatherized ethernet connectors, 20 degrees patch antenna 3x3 MIMO, 4.9 – 6.1 capable. 120 degree sector antenna, BSA MIMO 3x3 , 120 deg, 4.9-6.1 GHz, 3 x 15dBi gain. Antenna Cable Assembly, 1.5 meter LMR-400 w/ Integrated lightning suppressor N-type connector.	

6. Mounting Structures*

Specification Minimum Required	Compliance (Yes/No)
PENDANT KIT to mount the Fixed Dome Network Camera on Brackets or on standard 1.5" NPT threaded brackets. White. Pole Bracket. For use with PTZ Dome Network Camera & Fixed network cameras	

7. Network Video Surveillance Management Software *

Specification Minimum Required	Compliance (Yes/No)
Providing Network video management surveillance software with Central management, system control on 64 bit recording server, versatile rule engine, edge storage, alarm manager, bookmarking Video analytics with live and remote monitoring, recording, tamper and motion detection alarm triggers, log reports, auto voice alert, Tripwire, Trespass, Motion Detection, Multi Region Analytics, Object Classification, Illegal Parking Detection, Left Out Baggage Detection, Loitering Detection, Crowd Detection, Video Stitching, Video Smoke Detection, Smart Auto PTZ, Video Stabilization, People Counting	

8. Network Video Management central monitoring server*

Specification Minimum Required	Compliance (Yes/No)
Providing Network integrated video server with 10TB dynamic HDD, 4GB RAM/64bit 12MB Cache, minimum 3.0 GHz processor, RAM: Minimum 4 GB. Gigabit Ethernet Card, Intel Core i7 with 2 GB graphic card, With included all other hardware accessories necessary to view minimum of 30	

9. Network video surveillance central monitoring Control board*

Specification Minimum Required	Compliance (Yes/No)
Power Via USB interface, Casing Polycarbonate ABS, Operating conditions: 0 °C to 60 °C (32 °F to 140 °F), Interface USB 1.1/2.0/3.0 compliant, Approvals: EN 55022 Class B, EN 55024, EN 61000-6-2, FCC Part 15 Subpart B Class B, C-tick AS/NZS CISPR 22 Class B, VCCI Class B, ICES-003 Class B, IEC/EN 60529 IP20, Functionality Hall-effect joystick with three axis: X/Y: for pan and tilt Z: knob for zoom 6 application defined hotkeys, Deflection Square delimiter Pan/Tilt (XY): ±15° Zoom (Z): ±25°, Dimensions 109 x 182 x 181 m, 6 application defined hotkeys, Deflection Shuttle operating angle 160°	

10. People screening system*

Specification Minimum Required	Compliance (Yes/No)
Interface RS-232C for the connection of a terminal or computer or external modem (up to 100m distance), Corresponds to the directives; safe for wearers of pacemakers or other vital support systems, pregnant women and magnetic storage media (floppy disks, audio cassettes, video cassettes and similar) (EN50364). Conforms to the current International Security Standards for Walk-Through Metal Detectors. Satisfies EC Regulations (directives 73/23/EEC - 93/68/EEC) and International Standards relating to Electrical Safety and Electromagnetic Compatibility (directive EMC 89/336/EEC). Signalling Detection of metal masses (automatic or manual reset). Sabotage or internal auto-diagnostics. Alarms: Optical signalling Constant or proportional to the mass in transit; 6m visible/4000 Lux. Optical according to areas, vertical light display on the detection probe, green and red light signals proportional to the mass of the object in transit. Acoustic 90 dBA at 1 m. Quota alarm adjustable to %.	

COVER-II (Price Bid)

TENDER FOR SUPPLY OF MATERIALS/EXECUTION OF WORK

Price of Tender Paper: **Rs 1050/-**(Rupees One thousand Fifty only) (1000 + 5% VAT)

I/We hereby tender item-wise rate for execution of works / supply of material as described in the under mentioned memorandum according to the specifications within the time and the rates specified subject to the conditions of the contract.

Memorandum: (a) EMD – 2 % of estimated cost i.e. **Rs. 3,69,031/-**
(b) Security Deposit – 10% up to 1st Rs 1 lakh
7.5% up to next Rs 1 lakh
5% on the rest, above Rs 2 lakh

Note : (a) Payable along with tender.

(b) **Percentage to be deducted from the bill/ deposited after finalization of Tender.**

Name of the work: Supply, Installation & Commissioning of Network Video Surveillance along with Auto Mesh wireless connectivity at Sun Temple, Konark, Dist. Puri, Odisha

Place of Delivery/Execution : Execution of work / Supply of materials at **Sun Temple, Konark,Dist. Puri, Odisha**

Period of execution / supply : 180 days (6 months) from the 10th day of issue of work/supply order

Estimated value :**Rs.1,84,51,574/-**(Inclusive of all taxes, transportation Loading & unloading)

Sl No	Specifications (As Per Specification in Annexure I(B))	Qty	Unit	Rate in Rs (in figures)	Rate in Rs (in Words)	Total
01	Outdoor Heavy duty, Pan/Tilt, Day and Night network surveillance camera	07Nos	No			
02	Camera- Thermal network surveillance	02Nos	No			
03	Camera- Outdoor Fixed Night vision network camera	10 Nos	No			
04	Multicast streaming applications	19 Nos	No			
05	Network Video surveillance wireless connectivity	19 Nos	No			
06	Mounting Structures	19 Nos	No			

07	Network Video Surveillance Management Software	19 Channel				
08	Network Video Management central monitoring server	01 No	No			
09	Network video surveillance central monitoring Control board	01 No	No			
10	Providing metal door frame for regulating the visitor's entry to the monument	01 No	No			
11	Installation charges	L.S				
					Total	

In words:.....

Should this tender be accepted, I/We hereby agreed to abide by and fulfill all the terms and provisions of the said conditions annexed hereto so far as applicable, and/or in default thereof to forfeit and pay to the President of India or his successor in office the sum of money mentioned in the said conditions. A sum of Rs..... is forwarded herewith in Cash/DD/Pay Order as Earnest Money. If I/We fail to commence the work to specified in the above memorandum or if I/We fail to deposit the amount of security deposit specified against (a) in the above memorandum in accordance with the clause 1 of the said conditions of contract I/We agree that the said President or his successors in office shall, without prejudice to any other right or remedy, shall be retained by him towards such Security Deposit. I/We further agree that the said President or his successors in office shall also be at liberty to cancel the acceptance of the tender if I/We fail to deposit security amount to aforesaid.

Give particulars & number

Signature

Address

Signature of witness to Signature of tender:

Address.

Dated the 2014

The above tender is hereby accepted by me on behalf of the President of India

Dated the.....2014

Signature of the officer by whom the tender is accepted.

Para 13.2.4 of A.W. Code

Sl. No.

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- i) Sale Price :
- ii) Name of Contractor :
- iii) Date of application for tender form by contractor :
- iv) Date of receipt of application in Circle/Branch office. :
- v) Date of Issue of Tender Paper :
- vi) Date of receipt of Tender Paper :
- vii) Details of cutting, over-writing and erasing found on the Tender at the time of opening. :
- viii) Name and designation of officers/ Contractors present at the time of Opening the Tender. :

(a)

(b)

Official side**Bidder side**

1)

1)

2)

2)

3)

3)

4)

4)

5)

5)

6)

6)