



SPICES BOARD

(Ministry of Commerce and Industry
Government of India)

Sugandha Bhavan

N.H. By-pass

P.B. No. 2277

Palarivattom P.O.

Cochin - 682 025, India

स्पाइसेस बोर्ड

(वाणिज्य एवं उद्योग मंत्रालय,
भारत सरकार)

सुगन्ध भवन

एन. एच. बाइपास

पी. बी. नं. 2277

पालारिवट्टम पी.ओ.

कोचिन - 682 025, भारत

VIDEO SURVEILLANCE AND SECURITY SURVEILLANCE SYSTEM

EDP/Security Surveillance/2011

8th Oct 2014

Spices Board of India invites sealed quotations for the Installation and Maintenance of Video and Security Surveillance System in Board's offices across India. The scope of work and details are given in Annexure 1.

The sealed cover enclosing the quotation should be super-scribed as "Quotation for Video and Security Surveillance System". The quotation in the prescribed format along with compliance statements(1,2,3,4) as mentioned under Technical Specification, addressed to Deputy Director (EDP), Spices Board, Sugandha Bhavan, N.H. By Pass, Palarivattom, Cochin-25 should reach EDP Department of the board on or before **23th October, 2014, 5.30 pm**. The sealed quotations will be opened on 24th October 2014 at 11 a.m.

Deputy Director (EDP)

Annexure I – Project Details

A. FUNCTIONAL REQUIREMENTS

1. The scope of work include installation of IP cameras , NVRs and network switches (Running Eletrical and network cabling) in approximately 85 locations across India.
2. Approximate number of cameras and NVRs required are 220 and 85 respectively.
3. The system is required to ensure effective surveillance of an area as well as create a tamper proof record for post event analysis.
4. All the camera views shall be available at Spices Board Head Office in Cochin over internet
5. Software shall be provided which will enable authorized users over internet to select any location/camera and view the live or past display. Software shall have facility to auto shift the display of all locations at a defined frequency enabling a user over internet to observe all locations remotely.
6. System shall record the videos at the respective locations and recordings shall be available for a minimum period of 30 days.
7. All camera recordings shall have Camera ID & location/area of recording as well as date/time stamp.
8. The system should have the capacity of functioning 24x7 days in Indian Conditions.
9. The fitting and fixtures for IP camera, their cabinet etc. at specified locations, shall be done only as per the instruction of Spices Board officials.

B. TECHNICAL SPECIFICATIONS

The equipments should meet the minimum eligibility criteria mentioned below

1. IP Dome Camera (D30) (IR, 30 meter , for indoor use)

Details	Specification	Compliance
Image Sensor	1/3" 1.3 MP CMOS	
Minimum illumination	0.01 lux @F1.2, AGC ON, 0 lux with IR	
IR Range	30 Meters	
Lens	Varifocal - 2.8 ~ 12 mm	
Digital noise reduction	3D DNR	
Back light compensation	DWDR, BLC	
Video Streaming	1.3M/720P(1~25/30 FPS)	
Resolution	1.3 M(1280*960)	
Ethernet	RJ45 (10/100M)(IPv4,IPv6)	
Smart phone support	iPhone, iPad, Android, Windows Phone	
Power Source	DC 12V± 10%, PoE(802.3af)	
Weather Proof	IK10 & IP66	
Regulatory	CE, FCC, RoHS	

2. IP Bullet/Box Camera (B30) (IR, 30 metre , for outdoor use)

Details	Specification	Compliance
Image Sensor	1/3" 1.3 Megapixel CMOS	
Minimum illumination	0. 1Lux/F1.2, 0Lux (IR on)	
IR Range	30 meters	
Lens	Varifocal - 2.8 ~ 12 mm	
Digital noise reduction	3D DNR	
Back light compensation	DWDR, BLC	
Wide Dynamic Range	DWDR	
Video Streaming	1.3M/720P(1~25/30 FPS)	
Resolution	1.3 M(1280*960)	
Ethernet	RJ45 (10/100M)(IPv4,IPv6)	
Smart phone support	iPhone, iPad, Android, Windows Phone	
Power Source	DC 12V± 10%, PoE(802.3af)	
Weather Proof	IK10 & IP66	
Regulatory	CE, FCC, RoHS	

3. Channel NVR (N8)

IP Camera input	8 Channel	Compliance
Main Processor	Dual-core embedded processor	
Video Output	1 HDMI, 1 VGA	
Compression	H.264 / MJPEG	
Surveillance Hard Disk	2 SATA port, up to 8TB	
Recording Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop	
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search	

Backup Mode	USB Device / eSATA Device / Network	
Interface Ports	1 HDMI, 1 VGA, 1TV, 3 USB2.0, 1 RS485, 1 RS232, 1 RJ45	
Ethernet	RJ-45 port (10/100M/1000M)	
Surveillance Hard Disk	4 TB (2 * 2TB) (WD, Seagate, Hitachi)	
Power Source	DC/AC	

4. 16 Channels NVR (N16)

IP Camera input	16 Channel	Compliance
Main Processor	Dual-core embedded processor	
Video Output	1 HDMI, 1 VGA	
Compression	H.264 / MJPEG	
Hard Disk Support	2 SATA port, up to 8TB	
Recording Mode	Manual, Schedule(Regular(Continuous), MD, Alarm), Stop	
Search Mode	Time/Date, Alarm, MD & Exact search (accurate to second), Smart search	
Backup Mode	USB Device / eSATA Device / Network	
Interface Ports	1 HDMI, 1 VGA, 1TV, 3 USB2.0, 1 RS485, 1 RS232, 1 RJ45	
Ethernet	RJ-45 port (10/100M/1000M)	
Surveillance Hard Disk	4 TB (2 * 2TB) (WD, Seagate, Hitachi)	
Power Source	DC/AC	

5. 8/16 Port unmanaged Network Switches

Particulars	Specification	Compliance
8 Port unmanaged Network Switches	10/100 Mbps	
16 Port unmanaged Network Switches	10/100 Mbps	

(Compliance statement of all equipment, as mentioned above shall be attached along with the tender.)

Cable Laying

Indoor UTP Cable Laying through Casing and Cap (Channel) (ISI / ISO Approved) including all materials

Outdoor UTP Cable Laying through PVC Conduit pipe (ISI / ISO Approved), Casing including all materials

CAT – 6 Cable

- 23 AWG Annealed bare solid copper, CAT-6 UTP Cable, Channel optimized to 350 Mhz
- Meets EIA/TIA 568-B.2-1 Category 6 specifications, Passed UL 444 test and meets CM and CMR ratings
- Worst Case Cable Skew : 45 nsec/100 meters
- Characteristic Impedance : 100(+/- 3) Ohms 500MHz , Tested till 700 Mhz
- Conductor Annealed copper wire Diameter 0.52 mm (nominal)
- Insulation High Density polyethylene, Diameter 0.94 mm (nominal)
- Support for Fast Ethernet and Gigabit Ethernet IEEE 802.3/5/12, Voice, ISDN, ATM 155 & 622 Mbps and Broadband
- DC Resistance Max: 6.6 Ohms/100m
- UL Listed and Third Party verified by ETL to “ANSI/TIA/ EIA-568-B-2.1” specifications
- Zero Bit Error verified by ETL
- Sheath Fire retardant PVC Compound (FRPVC) Flame Rating : 60 deg. C As per UL 1685 CM
- PAIRS Color code: Blue / White-Blue, Orange / White-Orange Green / White-Green, Brown / White – Brown
- Outer Sheath PVC compound Thickness Diameter 0.5 mm (nominal) Outer diameter 6.5 mm (nominal)
- ELECTRICAL CHARACTERISTICS at 20° C Input Impedance (0.772-100 MHz) : 100 + 15 Ohms
125-250 MHz) : 100 +/- 22 Ohms
- Mutual Capacitance : 5.0 nF/100m Capacitance, unbalance (Max.) : 330pF/100m
- Standard length: 305 Mtrs (1000 ft.)

RJ 45 Plug Specifications

- Easy to wire RJ45 plug for CAT6 round cable
- For Solid or Stranded Conductor
- 24 thru 26 AWG
- 50 micro inches of gold plating on contacts
- Presorted wire loading bar, slide the wires in to the color-coded spaces

Power Supply Cable

- 3CX1.5 /2.5/4 sq mm, multi strand with standard annealed electrolytic copper conductor
- armoured cable/flexible cable as per IS 1554.
- Primary insulation of 85° C PVC as IS-5831 Type C
- Color code Red, Black and Green
- Inner and Outer Jacket : Extruded Flame retardant and 90° C PVC to IS 5831- Type ST2
- Inner and outer sheath - PVC Black
- Armouring - Galvanized Steel Wire/ flat as per IS-544 part I
- Armour coverage 95 %

QUALITY ASSURANCE

- The entire system shall be installed and commissioned from a single vendor to assure reliability and continued service.
- The vendor shall be required to train and instruct client's personnel in the correct use, operation and supervision of the system, preferably prior to the handing over of the project.

TESTING

- Component Testing: Maximum reliability shall be achieved through extensive use of high-quality, pre-tested components. Each and every component shall be individually tested by the manufacturer prior to shipment.
- Tools, Testing and Calibration Equipment: The supplier shall provide all tools, testing, and calibration equipment necessary to ensure reliability and accuracy of the system.

C. ELIGIBILITY CRITERIA

1. The Service Provider should have minimum 3 years of experience in the respective field.
2. The Service Provider should be a limited Company registered under the Indian Companies Act and should be registered with Income Tax and Service Tax Departments and have its own Bank Account.
3. The Service Provider and Manufacturer should have the ISO 9001 certification.
4. The Service Provider should have executed at least three similar projects exceeding Rs.10 Lakh and out of which one should be a Government project.

5. The Service Provider should not have been blacklisted by any Government Organisation/PSU. Self declaration for the same shall be submitted along with the tender.
6. Vendor shall submit the MAF(Manufacturer Authentication Form) for the product

Copy of relevant documents shall be submitted along with the tender to prove the eligibility criteria

D. FORMAT IN WHICH THE QUOTATION IS TO BE SUBMITTED. (The Model Number along with detailed specification shall be attached.)

#	Items (with 3 year warranty/extended warranty)	*Make / Model No	Unit Cost (Exclusive of tax)
1	IP Dome Camera (D30)		
2	IP Bullet/Box Camera (B30)		
3	8 Channel NVR (N8)		
4	16 Channels NVR (N16)		
5	Cost of the software		
6	CDN charges(if applicable) for 3 years		
7	8 Port unmanaged Network Switch		
8	16 Port unmanaged Network Switch		
9	External cabling cost per meter (inclusive of cost of cable and other costs for PVC, Connector etc, labour charges , power adapters required etc)		
10	Internal cabling cost per meter (inclusive of cost of cable and other costs for PVC, Connector etc, labour charges , power adapters required etc)		
11	Installation charges per location (if applicable)		
TOTAL (comparison will be done based on this total cost)			

The data sheet for each equipment shall be submitted along with the tender for technical comparison. Tenders without the data sheet for devices will be rejected.

E. TERMS AND CONDITIONS

1. The bidder shall submit along with the tender an EMD of Rs. 40000/- (Rupees Fourty Thousand Only) in the form of Demand Draft in favour of Secretary, Spices Board payable at Kochi. The EMD should be submitted in a sealed cover marked on the outside with the word 'EMD'. The EMD of unsuccessful Tenderer(s) will be refunded, after short listing of proposals, without any interest. In case the tenderer withdraws from the process, the EMD deposited by him will be forfeited. EMD of the successful tenderer will be retained by the Board as security deposit till the successful completion of the project. No interest shall be payable on this.
2. There is no separate tender document. This enquiry notice can be downloaded from Board's website at <http://www.indianspices.com/html/quot.php> for tender submission.
3. Spices Board has no 'C'/'D' forms
4. The quotations should contain two parts. Technical Bid and Financial Bid. Technical Bid and Financial Bid may be placed in separate sealed covers superscribed as "Technical Bid" and "Financial Bid" respectively and thereafter both the covers should be placed in a bigger third sealed cover superscribed as "Quotation for Video and Security Surveillance System"
5. The solution should work without requirement of more than one static IP per location.
6. Proposal shall include documents to prove quality of products, service support and technical competence
7. The service provider shall ensure service in all Spices Board locations across India which are covered under this project.
8. The offer shall include delivery time, validity of quotation, warranty period.
9. Offers which are incomplete in terms of scope, items or specifications or required details will not be considered and such tenders are liable to be rejected forthwith.
10. All the components shall be under warranty/extended warranty for 3 years.
11. AMC rate for the post-warranty period of Software and the Hardware shall be specified
12. The tender will be considered by taking into consideration the cost of maintaining the cost of hardware and software for three years from the date of installation (Inclusive of warranty period)
13. Spices Board has the right to reject any quotations without assigning any reason.
14. 65% of the payment will be released on successful installation of the system and rest 35% on submission of bank guarantee equal to that amount, valid for three years. The bank guarantee will be invoked in case the service provider fails to provide the service in the 3 years of warranty/extended warranty period.

15. The service provider is also expected to resolve any hardware, software and network issues of CCTV components within 1 week of raising the issue and provide free post-installation comprehensive onsite maintenance and replacement during the warranty period mentioned.
16. Delivery of items subject to inspection and balance on successful installation of the items
17. Compliance statement as mentioned in section B (technical specifications) shall be attached along with the tender.
18. Work shall be completed as per the following chart.

Location	Days allowed to complete the work after placing the work order
Less than 10 Location	30 Days
20 to 30 Locations	60 Days
30 to 85 Locations	4 Month

19. Vendor needs to inspect the location and suggest actual requirements like network points and internet bandwidth etc.
20. Onsite support shall be provided in both warranty and AMC periods.
21. Scope of warranty and AMC shall cover all cameras NVRs Network cabling and its equipment, power cabling and its equipment, switches, etc.
22. Document checklist shall be filled and submitted along with the tender

E. CLARIFICATIONS

You may contact Shri Jijesh T Das, Deputy Director (EDP) for any clarifications at 91-484 2333603 / jijesh.das@nic.in

DOCUMENT CHECKLIST (Annexure 2)

This document checklist is one of the forms that you need to submit with your tender.

If any of the required document listed below are missing, your tender may be disqualified.

Gather your document in order of the checklist and check each item.

I have enclosed the following items:

TECHNICAL SPECIFICATIONS

- Compliance statement as mentioned in section B (technical specifications)
- Data sheet of IP Dome Camera (D30)
- Data sheet of IP Bullet/Box Camera (B30)
- Data sheet of 8 Channel NVR (N8)
- Data sheet of 16 Channels NVR (N16)
- CAT6/RJ 45 Specifications
- Details of Software used in Head Office
- Details of CDN charges (if applicable)
- Break up for other charges (if applicable)
- Data Sheet of 8/16 port unmanaged Network Switch

ELIGIBILITY CRITERIA

- Proof for 3 years of experience in the respective field.
- Proof to show Limited Company registration under the Indian Companies Act and should be registered with Income Tax and Service Tax Departments and have its own Bank Account.
- ISO 9001 certification of the service provider and manufacturer
- Self declaration stating that the service provider is not blacklisted by any Government Organization/PSU
- Work order or Agreement for at least **three** similar projects exceeding **Rs.10 Lakh** (out of which one should be a Government project) (*Please highlight the amount, work and company/organization*)
- The MAF(Manufacturer Authentication Form) for the product

OTHER

- AMC rate for the post-warranty period of Software and the Hardware
Please mention Ref /Page no of proofs attached