Bangalore Turf Club Ltd.

Telephone : Office   : 22262391/2/3/5
            Secretary : 22261379
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POST BOX NO. 5038
52, RACE COURSE ROAD
BANGALORE -560 001

DT: 17.02.2014

ENQ NO: P/CCTV/SURVEILLANCE.CAMERA/96/17.02.2014 /2013-14/ ENQUIRY DATE: 17.02.2014

OFFERS ARE INVITED FOR SUPPLY AND INSTALLATION OF CCTV SURVEILLANCE SYSTEM AS TOTAL SOLUTIONS AT STARTING GATES AND TRANSMIT VIA RF TO CCTV CONTROL ROOM FOR LIVE RELAY ACTIONS AND RECORDING FACILITIES AS PER THE SPECIFICATIONS ARE BETTER. THE REQUIREMENT FOR THE ABOVE PROJECT IS ENCLOSED.

SL NO	DESCRIPTION	QTY
1	1/3" Full High Definition MOS Exmor Sensor, 2 MP Dome Camera, IP 66 Class Vandal proof Onvif Camera, Hi-resolution Day/Night, H.264, MPEG-4, Dual system, with standard accessories.	08 No's
2	16CH Embedded 1U/2U Network Video Recorder, H.264/MPEG4 Dual codec, Hi-Resolution D1, 720P/1080P, Multi-IP & ONVIF camera support, HDMI, VGA, SATA, 2/4 USB with 4TB Surveillance storage & standard accessories.	01 No
3	24 Port Network GB switch with POE supplied to compatible with IP camera with standard accessories/ 8 port network GB Switch with POE to compatible with IP camera with standard accessories	As per the site requirement
4	Network Cabling (Armored Cables) accessories & connectors	200 Mts (Approx)
5	32" LED FULL HD Monitor Monitoring facility at starting gate should be specified	01 No 01 No
6	Power supply pure sine wave inverter with 6-8 hours backup	01 No
7	RF UNIT ---- Point to Point LOS 14 DBI, 5GHZ, up to 1 KM Dual RF antenna. POE Injectors, RF Accessories & Connectors for the above	As per the site requirement
8	Facility to be provided for display of independent camera signals on CCTV network, required equipments should be quoted.	
9	Option should be provided for further expansion of the cameras at starting gates.	

THE REQUIRED MINIMUM SPECIFICATIONS OF THE ABOVE EQUIPMENTS IS ENCLOSED

1. The diagram of the Race Course is enclosed. The Racing starting point on the race days are marked. The signals of the cameras from the starting point should be transmitted via RF to CCTV control room Facility to be provided for display of independent camera signals on CCTV network The Agency has to visit our premises and understand the requirements before submitting the quote.

2. The storage system should have capability to record DATA at least for 60 race days of full 8 cameras.

3. All cameras, necessary equipments at starting gates should be weather proof, vandal proof and with appropriate protections for lightning etc.

4. The Agency shall undertake the measurements for Network Cabling etc at starting gates and at the CCTV control room.

5. The specified cameras and network video recorders and the transmission system by supplier for the above should provide a demo at our premises is compulsory. The dates will be intimated later.

6. The Agency should submit a quote separately for all civil works and mechanical works required for the above complete project.

7. The above system should be fool proof working, the cables have to be routed in PVC Pipes where ever required at starting gates as well as at CCTV Control room. The final settlement for cabling is subject to actual measurement used for completion of the project.

8. The Agency should be well versed with security video camera installation, networking, storage and operation. The Agency should have successfully completed similar works during last 5 years.

9. The Agency should have installed and commissioned at least with 50 or more IP cameras (both indoor and outdoor, including networking storage and management). Similar works for the purpose of qualification is described as design, detailed engineering, supply, installation, testing & commissioning of Internet Protocol (IP) based CCTV Surveillance system in any Industrial, Etc. The agency should enclose necessary documental evidence for the above. The agency must enclose the list of their clients and installation sites and contact numbers in their response

10. The agency should provide the solution on tern key basis and demonstrate its functionality. Acceptance will be based on mutually acceptable test.

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11. All offered items should be from reputed manufacturers well proven and established in the CCTV surveillance industry (ISO 9000 certified) and should not be an EOL (End of Line) product.

12. Declaration from the agency for the acceptance of tender conditions.

13. The quotations should be attached with following options:
    i)   Supply, installation and commissioning
    ii) Hardware, Software and Networking cost
    iii) Cabling & any other requirements
    iv) Man power requirements and Training Cost
    v)   Warranty period for a period of 3 years. The Agency should be able to support the above project for further 5 years.
    vi) AMC after the warranty period.

14. The quotations should reach us on are before DT: 08.03.2014 by 5.00 pm in a sealed envelope address to

15. BTC reserves the right to accept/reject any or all tenders without assigning any reason whatsoever.

    THE SECRETRAY
    BANGALORE TURF CLUB LTD
    POST BOX NO: 5038, RACECOURSE ROAD
    BANGALORE-560 001

16. For any further clarifications and site visit please contact:
    Mr. B.N.Nagaraju (Sr.Manager Telecasting)
    Contact No- 22262391 (Ex: 249)
    Tv Control room – 22375364

SECRETARY

MINIMUM SPECIFICATION FOR 2 MEGAPIXELS FULL HD DAY AND NIGHT VANDAL PROOF NETWORK IP BASED CAMERA

Image Sensor	1/3" 2Megapixel Exmor CMOS
Effective pixels (HxV)	1920(H)x1080(V)
Minimum Illumination/light sensitivity	Colour :0.2Lux/1.6,B/W:0.01Lux/F1.6
S/N Ratio	>50dB
Scanning System	Progressive
Functions	Day /Night , Automatic Switch over from Colour to B/W at 4 Lux,
Electronic Shutter Speed	Auto/Manual 1/3~ 1/10000(PAL)or better
White Balance	AWB
Backlight Compensation	BLC/HLC/DWDR
Gain Control	Auto/Manual
Privacy Masking	Up to 4 Areas
Lens	
Focal length	3.6mm fixed lens (2.8mm,6mm,8mm optional)
Video	
Compression	MPEG-4/H.264
Resolution	PAL 1080P(1920x1080) 720P(1280x720)/ D1(704x576)/ CIF(352x288)/
Image Frame rate	1080P/720P(1~25/30fps)
Bit rate	Minimum Dual Stream, Configurable Frame rate/bit rate streams for preview & recording
NETWORK	
Ethernet	RJ -45 (10/100Base-T)
Protocol	IPv4/IPv6,HTTP,TCP/IP, UDP, FTP, SMTP, DNS, DDNS, ARP
ONVIF	ONVIF Ver 2.0
Audio two way	
Audio input & output	Mono,unbalanced
Camera Housing /Casing IP66 rated	Weather proof casing with IP 66 standard Outdoor application
Mount	On Starting Gates
Power supply	DC 12V, PoE (802.3af)

MINIMUM SPECIFICATION FOR 16 CHANNEL NETWORK VIDEO RECORDER

System	
Main processor	High performance Dual-core embedded microprocessor
Operating system	Embedded LINUX
System resources	Pentaplex function: live, recording, playback, backup & remote access
Control mode	Front panel, USB mouse, IR remote control, Keyboard,
Video Audio	
IP camera input	16 channel
Supported list	Dauha, Arecont Vision, Cannon, Dynacolor, Panasonic, SANYO, SONY, ONVIF
Video output	1 HDMI (video and audio)1 VGA,1 TV
Two way talk	1 channel input 1 channel output
Display split	1/4/8/9/16
OSD	Camera title,time ,video loss,camera lock, motion direction,recording,
Recording compression	H.264/MPEG-4
Resolution	5MP(2560x1920) / 3MP(2048x1536) / 1080P(1920x1080) 720P(1280x720) / D1 (704x576/704x480)
Bit rate	Upto 32 Mbps
Recording mode	Manual ,Schedule (Regular (continuous), MD (Video detection: Motion detection, Camera blank, video loss),
Recording priority	Manual>Alarm>MD>Regular
Recording Interval	1~120 min (default:60 min)
Video Detection & Alarm	
Trigger Events	Recording,PTZ,Tour,Alarm,Video push, Email,FTP,Buzzer & Screen Tips
Video Detection	Motion Detection,MD Zones:396(22x18), Video Loss & Camera Blank
Alarm input	8 channel
Relay output	3 channel
Privacy Masking	4 self- defined four – sided zones for privacy masking
Playback & Backup	
Playback channel	1/4/9/16 All
Search mode	Time/Date, Alarm, MD & Exact search (accurate to 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 Zoon
Backup Mode	Flash drive/ USB HDD/ USB CD & DVD-RW/ e SATA Device/Built in SATA burner/Network Download

MINIMUM SPECIFICATION FOR 16 CHANNEL NETWORK VIDEO RECORDER

NETWORK	
Ethernet RJ -45	(10/100M/1000Mbps)
NETWORK FUNCTION	HTTP, TCP/IP,IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP Camera, DVR, NVS and etc)
Max.Users	20 Users
STORAGE	
eSATA 4 External SATA ports, up to 12TB Space occupation Max 3.6GB/ H per Channel	
HDD MANAGEMENT	HDD Group, HDD hibernation technology, HDD faulty alarm & Raid(Redundency)
HARD DISK	Hard Disk min 6 SATA Ports, 6 HDD's or HDDs + 1 CD/DVD (**with 4 TB HDD**)
AUXILARY INTERFACE	
USB	4 Ports 2 Ports for Mouse control and backup
RS232	1 Port, for PC communication & keyboard
RS485	1 Port, for PTZ control
POWER REQUIREMENT	230V.AC, 50 Hz
WORKING ENVIRONMENT	-10° C + 55° C/ 10% - 90%RH/ 86 – 106kpa
MOTION DETECTION ZONES	396(22X18), Sensitivity: 1 -6 (level 6 is Highest)

MINIMUM SPECIFICATION FOR RF TRANS & RECEIVER

OPERATING FREQUENCY	5.150-5.350GHz/5.470-5.725GHz/5.275-5.825GHz (Country dependent)
OPERATING RANGE	Up to 1 Km
MAX SATELLITES SUPPORTED	1
MODULATION	802, 11a, OFDM
MAXIMUM RF OUTPUT POWER	1 W EIRP
DATA RATE	IEEE802.11(b): 11,5.5,2,1 Mbps IEEE802,11(g),(a): 54, 48, 36, 24, 18, 12, 9, 6 Mbps
FREQUENCY & POWER CONTROL	DFS, TPC
ANTENNA	Vertcally Polarised 14dBi, 40°
MANAGEMENT TOOLS	RF Analyser software suite/SNMPv1
INTERFACE	
Ethernet Interface	10/100 Base T Auto Sensing, All ports screened
SECURITY	WEP64/128/152, WEP 2,WPA, 128 Bit/ 256 Bit pre shared key AES with TKIP, Access control, SSID Suppress, MAC Address Filtering IEEE 802, 1x/EAP, 802.1 x Radius Client Support
AUTHENTICATION	802.1 x with Radius Authentication
MPUNTING	Wall / pole mount
IP RATING	IP65
OPEARTING TEMPERETURE	-20 °C to +60° C
HUMIDITY	95% Relative Humidity (Non-Condensing)
APPROVALS	EN 300 328: EN 301 893: EN 302, 502: EMC EN 301 489-17: EN 60950

DIAGRAM OF THE RACE COURSE WITH STARTING POINTS

GATE - 5
T-5
GATE - 6
T-6

800
600
T-4

SAND TRACK
MAIN GRASS TRACK
INNER GRASS TRACK

1000 (SP 7)
1100 (SP 6)
1200 (SP 5)
1400 (SP 4)
1600 (SP 3)
2000 (SP1)
W.P.
1800 (SP 2)

400
2400 (SP 8)
T-3

2200 (SP 9)
200
T-2
GATE - 4

RACE COURSE ROAD

CCTV CONTROL ROOM
ENCLOSURE - 1
PADDOCK
OFFICE
T-1
GATE - 1
GATE - 2
GATE - 3