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SAINIK SCHOOL  
AMARAVATHINAGAR, UDUMALPET  
TIRUPPUR DISTT  
TAMILNADU - 642 102

SSA/Q/CCTV/17-18/01

Sep 2017

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### TENDER DOCUMENTS

1. Reference your letter No ..... dated .....
2. Tender form is enclosed herewith. Tender should be sent in a sealed cover in the prescribed format and the envelope should be prominently marked outside `Tender for **'Supply and installation of CCTV Cameras'**
3. Principal reserves the right to accept or reject any or all tenders without assigning any reason. All bidders are required to sign with date in all the places prescribed for the purpose.
4. All the sealed tenders should be sent by post or posted in the tender box provided for the purpose in the school premises. Tenders will be opened at date and time mentioned in the `Terms and Conditions' in the presence of such of those bidders or their authorized agents, as may be present. Last date and time for receipt of filled tenders by the school is mentioned in the **'Terms and Conditions'**.
5. Technical specifications and Terms and Conditions of tendering procedure are enclosed herewith separately.

Administrative Officer  
For Principal

**TENDER FORM 'SUPPLY INSTALLATION OF CCTV CAMERAS'**

From

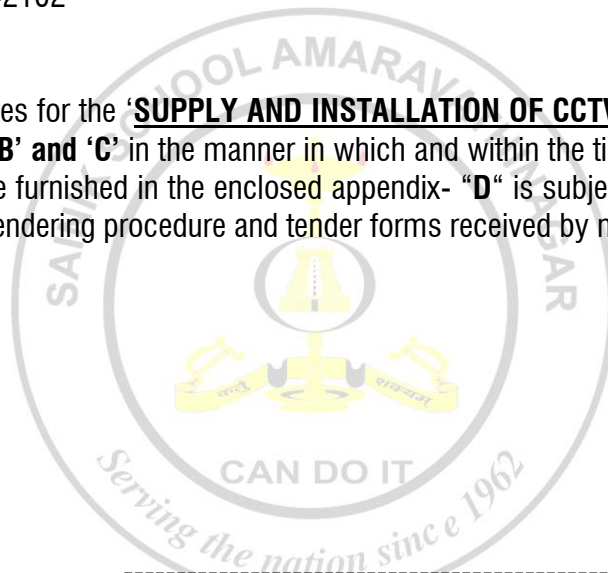
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To

The Principal,  
Sainik School,  
Amaravathinagar - 642102

I hereby quote the rates for the **'SUPPLY AND INSTALLATION OF CCTV CAMERAS'** of as specified in the enclosed appendix – **'A', 'B' and 'C'** in the manner in which and within the time specified as set forth in the terms of agreement. The rate furnished in the enclosed appendix- **"D"** is subject to the conditions set forth in the terms and conditions of tendering procedure and tender forms received by me.

Encl: As above.



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(Signature of the tenderer and name in Capital letters)  
If Companies or firm, The Managing Director / Partner  
should sign with seal)

## TERMS AND CONDITIONS OF TENDERING PROCEDURE

1. Tender document is not transferable.
2. The amount of Rs.1000/- (Rupees One Thousand only) collected towards tender document (terms and conditions and specifications, if any) is not refundable. DD drawn in favour of **“THE PRINCIPAL, SAINIK SCHOOL, AMARAVATHINAGAR (CODE No.2191).**
3. Payment:
  - (a) Payment will be made only after receipt of the items/ products/materials/equipment service at the school and after satisfactory delivery by the company representative / completion of work.
  - (b) **No advance payment will be made on any account.**
  - (c) Payment will be made only by means of an `Account Payee Cheque`. DD may be issued on request in writing and the DD commission will be charged.
4. The firm should be ready to execute the project within a month from the date of the order as per the requirement. The firm is liable to compensate damages/financial loss to the school, in case they fail to execute the order after getting the supply order. The party is bound to pay double the amount of the product cost if they fail to supply the item for whatsoever reasons. The demand after the finalisation of supplier can be in the form of written, SMS, e-mail or verbal, in case of necessity based situations. The reason of ignorance by the supplier for the failure to execute an order shall not be entertained or accepted.
5. Maximum `Educational Discount` admissible is to be mentioned in the Offer.
6. The Income-Tax laws (US206 of IT Act 1961 Rule 371 Section 194 C) as applicable with Central/State Government policies will be taken into account. In case, the policies at the time of payment are different from the one stated in the Tender Document, the policy in force will be followed,
7. The Principal, Sainik School reserves the right to reject any or all tenders without assigning any reason thereof.
8. If any certificate, enclosed by firm are found to be fake/bogus/tampered, such of those agencies shall be black listed for a period of 10 years and the contract will be terminated with immediate effect.
9. Each firm has to submit a copy of **Registration certificate/Registration number/GSTIN** from the concerned authority wherever applicable.
10. Tenders by Fax/E-mail will not be accepted.
11. Post tender correspondences shall not be entertained.
12. Last two year's list of clients is to be enclosed.
13. For other details, terms and conditions, the firms are advised to refer to the tender document.
14. It is hereby brought to the notice of all prospective bidders that if any change/additions/alterations are found to be made by them in the copies of the quotation, proof documents etc and the same is subsequently detected / noticed at any stage even after award of the supply order; all necessary actions including stoppage

of the supply order and stoppage of payment would be taken. In addition the bidders shall be liable to be prosecuted under law for any malpractice found.

15. This advertisement does not constitute, and will not be deemed to constitute any commitment on the part of the school with respect to exact demand quantity.

16. The tender forms are required to be submitted prior to tender opening procedure. One day late and incomplete tender forms shall be summarily rejected. No correspondences in this regard will be entertained.

17. The Principal, Sainik School reserves the right to itself not to issue the document and/or to accept or reject any or all the offers at any stage of the process and or modify the process without assigning any reason whatsoever, and his decision in this matter is deemed as final and binding. The firm will not be entitled for any compensation for rejection of his application. However, demand draft will be returned to the bidder in case tender documents are not issued.

18. Lowest rates do not guarantee the purchase order, rather the quality, after sales service, continued response, guarantee/warranty amongst others will also be taken into consideration. Brand name and Model Nos. should invariably be quoted for all the items. Items of poor quality will not be considered for procurement.

19. Sainik School does not bind itself to accept only lowest tender. It reserves the right to select the bidders on other essential count also.

20. The equipment should be supplied, installed and commissioned in the existing LAN network Necessary configurations/arrangements will be carried out by the Tenderer)by the tenderer within the specified time stipulated and the validity of the offer holds good till such time. The equipment should be custom - cleared by the supplier and delivered at the School by the supplier.

21. Bidder should be the manufacturer. In case if bidder is quoting on behalf of Other Equipment Manufacturer (OEM), then the bidder should be authorized by the OEM.

22. The equipment offered should meet all the technical specifications as stipulated in the bid and the technical terms and conditions.

23. The last date for submission of 'Tender Document' is 25 Sep 2017 at 1700 hrs. Tenders received after the due date will not be considered.

24. Tenders will be opened on 26 Sep 2017 at 1530 hours at the school premises by the Tender opening committee (TOC).

25. Legal jurisdiction will be restricted to only at Udumalpet Taluk.

**26. PRINCIPAL'S DECISION WILL BE FINAL ON ALL MATTERS.**

27. All correspondence should be addressed to the following address:-

The Principal,  
Sainik School, Amaravathi Nagar,  
Udumalpet – Taluk  
Tiruppur – District  
PIN – 642102 (TN)

**Note: If the date of receipt and opening of tenders happen to be declared as Holiday, the same will be observed on the next working day at the same time. The successful bidder should submit their RFP documents duly signed in all pages at the time of signing the contract.**

**TECHNICAL SPECIFICATION FOR 'SUPPLY AND INSTALLATION OF CCTV CAMERAS'****2MP Bullet Camera with 3.6mm Lens**

S.No	Specification	
1	MAGE SENSOR	2.43MP Digital Image Sensor
2	SYSTEM	PAL
3	LENS	3.6mm Lens,angle of view-52°
4	LENS MOUNT	M12
5	SHUTTER TIME	1/50 ~ 1/10,000 sec
6	SLOW SHUTTER	Low/Medium/High
7	MINIMUM ILLUMINATION	Color: 0.01 Lux @F1.2, B/W: 0.001 Lux@F1.2
8	IR RANGE	27 IR LED, Ø5 mm, 850nm, IR Distance 10-25Mtr.
9	CAMERA PARAMETERS	Exposure mode, Day/Night level, Auto Iris, Privacy Masking, BLC, AGC, DWDR, White Balance, Mirror, Anti-flicker, Flip, Defog
10	DAY/NIGHT MODE	Automatic/Color/Black and white
11	PROFILE	Automatic/Indoor/Outdoor
12	WDR	Up to 69dB
13	IR CUT	Automatic /Synchronous
14	SIGNAL/NOISE RATIO	>60dB
15	VIDEO COMPRESSION	H.264
16	VIDEO BIT RATE	32Kbps~8Mbps
17	AUDIO COMPRESSION	G.711
18	AUDIO BIT RATE	64Kbps
19	DUAL STREAM	Yes
20	RESOLUTION	1080P (1920*1080) @25FPS
21	COMMUNICATION INTERFACE	1 x RJ45, 10/100M adaptive Ethernet interface
22	IMAGE SETTINGS	Saturation, Brightness, Contrast adjustable by client software or web browser
23	MOTION DETECTION	Yes
24	PRIVACY MASKING	Yes, 4 zones
25	REMOTE CONFIGURATION	Supports Web configuration, Mobile Monitoring and CMS
26	SNAPSHOT CAPTURE	JPEG
27	ALARM TRIGGER	Motion Detection, Video Blind, Video loss, Network detection, Storage exception
28	PROTOCOLS	TCP/IP, HTTP, HTTPS,UDP, RTSP, FTP, PPPOE, DHCP, DDNS, NTP, SMTP,ARSP, UPnP, IPv4,DAS,Cloud, Alarm Server, IP filter
29	SYSTEM COMPATIBLTY	ONVIF 2.0
30	MOBILE MONITOR	Supports iPhone,Android
31	SECURITY	Multi-level user access with password protection
32	INGRESS PROTECTION	IP66 weather proof
33	OPERATING CONDITIONS	Operating Temperature : -10°C ~ 55°C, Humidity 90% or less (non-condensing)
34	POWER RATINGS	DC 12V ± 10% , Max 3.5W,PoE (802.3af)
35	DIMENSION (LXWXH) , WEIGHT	200mm * 118mm * 80mm, 480g
36	Certifications	CE, FCC, UL/EN/IEC or Equivalent Indian Standard

S.No	Specification	
1	IMAGE SENSOR	2.43MP Digital Image Sensor
2	SYSTEM	PAL
3	LENS	6mm Lens, angle of view-46°
4	LENS MOUNT	M12
5	SHUTTER TIME	1/50 ~ 1/10,000 sec
6	SLOW SHUTTER	Low/Medium/High
7	MINIMUM ILLUMINATION	Color: 0.01 Lux @F1.2, B/W: 0.001 Lux@F1.2
8	IR RANGE	36 IR LED, Ø5 mm, 850nm, IR Distance 30-40Mtr.
9	CAMERA PARAMETERS	Exposure mode, Day/Night level, Auto Iris, Privacy Masking, BLC, AGC, DWDR, White Balance, Mirror, Anti-flicker, Flip, Defog
10	DAY/NIGHT MODE	Automatic/Colour/Black and white
11	PROFILE	Automatic/Indoor/Outdoor
12	WDR	Up to 69dB
13	IR CUT	Automatic /Synchronous
14	SIGNAL/NOISE RATIO	> 60dB
15	VIDEO COMPRESSION	H.264
16	VIDEO BIT RATE	32Kbps~8Mbps
17	AUDIO COMPRESSION	G.711
18	AUDIO BIT RATE	64Kbps
19	DUAL STREAM	Yes
20	RESOLUTION	1080P (1920*1080) @25FPS
21	COMMUNICATION INTERFACE	1 x RJ45, 10/100M adaptive Ethernet interface
22	IMAGE SETTINGS	Saturation, Brightness, Contrast adjustable by client software or web browser
23	MOTION DETECTION	Yes
24	PRIVACY MASKING	Yes, 4 zones
25	REMOTE CONFIGURATION	Supports Web configuration, Mobile Monitoring and CMS
26	SNAPSHOT CAPTURE	JPEG
27	ALARM TRIGGER	Motion Detection, Video Blind, Video loss, Network detection, Storage exception
28	PROTOCOLS	TCP/IP, HTTP, HTTPS,UDP, RTSP, FTP, PPPOE, DHCP, DDNS, NTP, SMTP,ARSP, UPnP, IPv4,DAS,Cloud, Alarm Server, IP filter
29	SYSTEM COMPATIBILITY	ONVIF 2.0
30	MOBILE MONITOR	Supports iPhone, Android
31	SECURITY	Multi-level user access with password protection
32	INGRESS PROTECTION	IP66 weather proof
33	OPERATING CONDITIONS	Operating Temperature : -10°C ~ 55°C, Humidity 90% or less (non-condensing)
34	POWER RATINGS	DC 12V ± 10% , Max 3.5W, PoE (802.3af)
35	DIMENSION (LxWXH) , WEIGHT	200mm * 118mm * 80mm, 500g
36	Certifications	CE, FCC, UL/EN/IEC or Equivalent Indian Standard

TECHNICAL SPECIFICATION FOR 16CH NVR		
S.No	Specification	
1	PROCESSOR	Dual-Core Embedded Processor
2	IP CAMERA INPUT	16 Channel
3	OPERATING SYSTEM	Embedded Linux
4	TWO-WAY TALK	1 Channel RCA Input, 1 Channel RCA Output
5	USER INTERFACE	GUI
6	COMPRESSION FORMAT	H.264
7	AUDIO COMPRESSION	G.711A
8	VIDEO STANDARDS	PAL 625 line, 50 f/s; NTSC 525 line, 60 f/s
9	VIDEO INPUT	4ch*5MP/4ch*4MP/4ch * 3MP / 16ch * 1080P / 16ch * 960P / 16ch * 720P
10	VIDEO OUTPUT	1 VGA, 1 HDMI
11	VIDEO RECORDING	Max 80 Mbps
12	VIDEO DISPLAY SPLIT	1/4/8/9
13	RESOLUTION	2048(V)x1536(H)   3MP
14	ALARMS	Camera Blank, Video Loss, Motion Detection, Alarms
15	TRIGGER EVENTS	Recording, PTZ, Tour, Alarm, Video Push, Email, Ftp Spot, Buzzer & Screen
16	RECORDING MODE	Manual, Alarm, Video Detection, Continuous
17	MOTION DETECTION	MD zones: 192(16x12)
18	PLAYBACK CHANNELS	1*5MP/2*1080P/4*1080P/4*960P
19	PLAYBACK	Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection in .AVI & H.264
20	BACKUP MODE	Network Backup, USB HDD, Internal SATA Burner
21	RECORDING / TRANSFER RATE	80Mbps / 80Mbps
22	SEARCH MODE	Time/ Calendar/ Event/ MD & Exact Search (Accurate to Second)/Channel Search
23	NETWORK INTERFACE	RJ-45 10M/100M
24	PROTOCOLS SUPPORTED	HTTP, TCP/IP, IPv4, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, ONVIF Version 2.3
25	3G /Wi-Fi	Support
26	RECORD INTERVAL	1~120min (default: 60 min), PreRecord:1~30 sec, Post-Record:10~300sec
27	PTZ CONTROL	RS485
28	USB INTERFACE	2* USB 2.0, Port for Mouse and Backup
29	HARD DISK	2 SATA Port (Max. 6TB per one)
30	POWER SUPPLY	12VDC ±10%, 2A
31	DIMENSIONS (LxWXH)	255cm x 225cm x 45cm
32	Certifications	CE, FCC, UL/EN/IEC or Equivalent Indian Standard

**TENDER FORM**  
**FOR 'SUPPLY AND INSTALLATION OF CCTV CAMERAS'**

S.N	Description	Qty	Rate	GST%	Amount
1	IP Camera as per Technical Spec	9			
2	IP Camera as per Technical Spec	35			
3	16CH NVR as per Technical Spec	3			
4	4TB AV HDD WD Purple INTL	6			
5	Cisco SG300-10PP POE Switch	6			
6	Cisco SG-350-24PP POE Switch	4			
7	17 U (600MMW*600MMD*900MMH) Rack With Accessories	1			
7	Dlink Cat6 Cable 305 Mtrs	7			
8	12 V 2Amps adapter Camera	6			
9	Numeric UPS 1KV	2			
10	RJ 45 Jack	100			
11	Electrical Material & Cable laying (Channel, PVC) Per meter	2100			
12	Camera Installation & Configuration charges	47			

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 (Signature of the tenderer and name in Capital letters)  
 If Companies or firm, The Managing Director / Partner  
 should sign with seal)