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SAINIK SCHOOL  
AMARAVATHINAGAR, UDUMALPET  
TIRUPPUR DISTT  
TAMILNADU - 642 102

SSA/IPPAS/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 **IP SERVER FOR VOICE AND PAGING (PAS)**`
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 FOR THE IP SERVER FOR VOICE AND PAGING (PAS)**

From

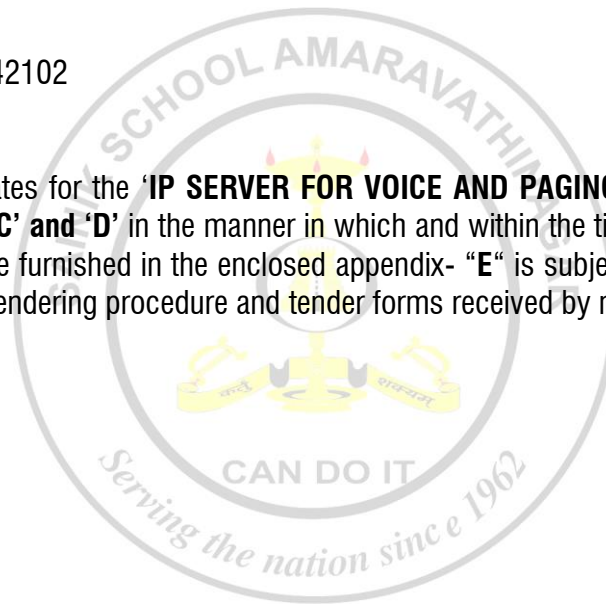
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To

The Principal,  
Sainik School,  
Amaravathinagar - 642102

I hereby quote the rates for the '**IP SERVER FOR VOICE AND PAGING (PAS)**' of as specified in the enclosed appendix – '**A**','**B**','**C**' and '**D**' 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- "**E**" 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, Amaravathinagar,  
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 'IP SERVER FOR VOICE AND PAGING (PAS)'**

<b>IP Server for Voice &amp; PAS with PMS</b>		
S.No	Parameter	Minimum Specification
1	Extensions & Concurrency	Up to 200 Extensions & up to 60 Simultaneous Calls
2	Conference ding	Up to 40 Simultaneous Conference Attendees, Up to 36 Conference Rooms
3	Voice Recording	Recording up to 150 hrs (WAV), Recording up to 1500 hrs (GSM),
4	Voice Recording Type	Automatic Recording/One Touch Recording
5	IVR	Multi-layer IVR (Interactive Voice Response)
6	Type of Trunk Supports	Analog, GSM, & SIP
7	PBX Features	Flexible Inbound/Outbound Routing Time-based Routing   Remote Extensions & Remote Offices   Paging & Intercom Video Call   Call Forward/Transfer   Web Extension (Web RTC)   Follow Me DND (Do Not Disturb)   Ring Groups   Pick-up Groups   DISA (Direct Inward System Access)   Virtual Fax   Voicemail to Email/Fax to Email One Number Stations   Smart DID
8	Hardware	Intel Dual-core 2.41GHz CPU, 2GB DDR3L RAM, 16GB On board EMMC, HDMI (High-Definition Multimedia Interface), Audio In/Out (Paging), 2x1000Mbps Ethernet Ports, USB 3.0 + USB 2.0 (Extended Storage)
9	Telephony Signalling & Control	SIP (RFC3261), SIP over UDP/TCP/TLS, IAX2, DTMF: RFC2833, SIP Info, In-band, SRTP
10	Network & Protocols	IPv4, IPv6, VLAN, DHCP, PPPoE, DDNS, SRTP, TLS, LDAP, Tr069, SNMPv2, NTP, SNTP, TFTP, SSH, HTTPS,
11	Media	Audio Codecs: Opus/G.722/G.711-Ulaw/G.711-Alaw/ , G.726/G.729/GSM/SPEEX , Video Codecs: VP8/H.261/H.263/H.263+/H.264 ,
12	Security	HTTPS, Fail2Ban, Permit IP, Whitelist, Blacklist , VPN Server (PPTP, L2TP, Open VPN, IPSec)
13	Power	AC 100~240V, 50/60Hz, 1.5A max.
14	Environment	Working Temperature: 0 ~ 40°C , Storage Temperature: -20 ~ 55°C , Humidity: 5 ~ 95% Non-condensing
15	Size	Unit Dimension: 440x222x44mm , Package Dimension: 500 × 310 × 95mm , Unit Weight: 2.66kg
16	PMS	Paging Management System is an innovative software which is primarily used to distribute public address via sip protocol over SIP Speakers. According to the simple interconnection with IP PBX, multiple SIP Speakers will be centrally managed, monitored and configured through paging management system.

17	<b>Key Features Of PMS</b>	<ul style="list-style-type: none"> <li>• Volume Control</li> <li>• Group announcement</li> <li>• Real-time announcement</li> <li>• Public Address for specified area</li> <li>• Public Address in specified time</li> <li>• Remote settings /management/ upgrade</li> <li>• Centralized management of audio files</li> <li>• Centralized configuration of SIP speakers</li> <li>• Real-time and remote monitor speakers status</li> <li>• Friendly Web interface and easy to use</li> <li>• Paging to up to 200 SIP Speakers</li> <li>• Custom service is available (e.g.: emergency announcement)</li> </ul>
18	PMS Application	Applicable in mall, factory, office, School...



## Appendix 'B'

### TECHNICAL SPECIFICATIONS

IP-Audio Gateway		
S.No	Parameter	Minimum Specification
1	Basic Information	Telephony Protocol: SIP 2.0 (RFC3261) , CPU: MIPS + DSP , Keypad Expansion: Support 4×6 for a total of 24 keys.
2	Voice	Speaker Output: 10W Speaker Impedance : 4Ω DSP: Support echo cancellation and noise suppression Voice Flood Supported protocol: RTP
3	Voice Codec	G.711, G.722, G.723, G.726, G.729, etc.
4	Other Interface	Input Power: 12V/2A DC LAN: 2x10M,RJ45 RS232: Optional GPIO: 4 programmable output pins
5	IVR	Multi-layer IVR (Interactive Voice Response)
6	Environment	Operation Temperature: 0°C to 40°C Storage Temperature: -40°C to 70°C Humidity: 10% to 95%,No Dew

## Appendix 'C'

TECHNICAL SPECIFICATIONS	
IP Voice Gateway	
S.No	Specification
1	1GHz Dual-core A7 processor
2	512MB DDR3 SDRAM
3	8GB SD card
4	16 x RJ11 FXS
5	SIP(RFC3261)
6	G.722/G.711-Ulaw/G.711-Alaw/G.726/G.729/GSM/SPEEX
7	DC 12V/3.5A
8	Desktop and rack-mountable

<b>TECHNICAL SPECIFICATIONS</b>		
<b><u>IP-Phones</u></b>		
<b>S.No</b>	<b>Parameter</b>	<b>Minimum Specification</b>
1	Display	2line or more, Monochrome display for viewing features like messages, directory etc. 132x48pixel graphical LCD with backlight
2	Integral switch	10/100mbpsfordirectconnection to a 10/100 BASE-T Ethernet network through an RJ-45 interface, Dual-port 10/100M Ethernet
3	Conferencing	5 way
4	Headset	1 x RJ9 ( 4P4C ) head set port
5	VoIP Protocol	SIPv1 (RFC2543), v2 (RFC3261)
6	PoE	Power over Ethernet (IEEE802.3af), class3
7	Supported Protocols	SNMP,DHCP, DNS
8	Codecs	iLBC, G.722, G.711(A/μ), GSM_FR,G.723, G.729AB, G.726-32includinghandsetand
9	Speaker Phone	Full duplex speaker phone with echo cancellation Speaker on/off button, microphone mute, Full-duplex hands-free speaker phone with AEC
10	Volume control	Easy decibel level adjustment for speaker phone, handset and ringer
11	Phonebook/	Local phone book up to1000entries
12	Call Logs	Call history-Access to missed, received, and placed calls.(Minimum20 overall)
13	Clock	Time and Date on display
14	Ringer	Ring tone selection/provisioning
15	Directory Access	LDAP standard directory, XML/LDAP remote phonebook
16	Chipset	3rd Party Texas Instruments
17	Warranty	2 years
18	Auto Provision	TFTP/FTP/HTTP/HTTPS/PPPoE, Support TR069
19	Security & QoS	SRTP, TLS, HTTPS, 802.1p/Q tagging (VLAN), Layer 3 ToS DSCP, Open VPN, IEEE802.1X



**TENDER FORM**  
**FOR 'IP SERVER FOR VOICE AND PAGING (PAS)'**

S.N	Description	Qty	Rate	GST%	Amount
1	IP SERVER FOR VOICE & PAGING (PAS) SOLUTIONS SUPPORTING (As per Appendix 'A')	1			
2	IP Speaker (As per Appendix 'B')	1			
3	VoIP FXS GATEWAY 8 PORT (As per Appendix 'C')	1			
4	VoIP FXS GATEWAY 4 PORT (As per Appendix 'C')	1			
5	IP Phone (As per Appendix 'D')	1			
6	Installation Charges	1			

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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)