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Army Public School Madhopur
VPO- Madhopur
Dist. Pathankot (Pb)-145024

101/Quot/APSM

01 May 2023

(Addressee overleaf)

**CALLING FOR QUOTATIONS
COMMERCIAL AND TECH BID**

1. Army Public School, Madhopur intends to purchase/supply of item(s) for installation of Public Announcement System and Automated Bell System -

S No	Item	Quantity	Rate	GST Rate (%)	Unit Price with GST	Total Cost with GST
1.	Ahuja Dual outdoor Speaker (Min 30 watt)	10 Nos				
2.	Ahuja Single Indoor Speaker (Min 15 watt)	5 Nos				
3.	Ahuja Amplifier (Min 700 watt)	01 No				
4.	Speaker Cooper Cable 1 MM 2 Core	1000 mtrs				
5.	PVC Pipe Fitting	As per Requirement (in mtrs)				
6.	Wireless Mike	01 No				
7.	Desk Mike	01 No				
8.	School Bell Software	01 No				
9.	PVC Pipe Wiring Charges	As per Requirement (in mtrs)				
10.	Speaker Installation Charges	Lumpsum				
					Grand Total	

2. Vendors are required to submit their commercial and tech bids in sealed covers mentioning the following terms and conditions. For Tech bid (specifications), please refer Annex I attached to this letter and also fill it up accordingly as per the format :-

- Total cost inclusive of installations and taxes.
- GST.
- Period and terms of delivery:-
 - Max period of supply.
 - Warranty Period.

3. Last date for receipt of quotations is 08 May 2023.


(Maj A K Tripathi)
Presiding Officer

TECHNICAL BID

S No	Item	Specification	Qty	Compliance Yes/ No
1.	Dual outdoor Speaker	Input Power 30W RMS Power Taps on 100V 30/20/10/5W Impedance 330/500/1k/2kΩ Frequency Response 120-15,000Hz SPL at 1kHz (1W/1m) 94dB	10 Nos	
2.	Single Outdoor Speaker	Input Power 25W RMS Power Taps on 100V 25/20/15/10/5W Impedance 400/500/670/1k/2kΩ Frequency Response 120-15,000Hz SPL at 1kHz (1W/1m) 93dB	5 Nos	
3.	Amplifier	Power Output: 750W Max., 500W RMS at 10% THD, 450W RMS at 5% THD, 415W RMS at 2% THD Output Regulation: ≤ 2 dB, no load to full load at 1kHz Input Channels: 7 × Mic 0.8mV/4.7kΩ, 2 × Aux 100mV/470 kΩ, Line 1V/50kΩ: Frequency Response 50-15,000Hz ±3dB Signal to Noise Ratio: 60dB Tone Controls: Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz Outputs: Preamp 200mV/600Ω, Line 1V/1kΩ Speaker Outputs: 4Ω, 8Ω, 70V & 100V Power Supply: AC: 220-240V 50/60Hz DC: 36V (3×12V CarBattery)	1 Nos	

4.	Speaker Cable 2 Core 1 MM Diameter	<table border="1"> <thead> <tr> <th rowspan="3">Nominal Cross Sectional Area of Conductor</th> <th rowspan="3">Number/ Nom. Dia of cond. strands*</th> <th rowspan="3">Thickness of Insulation (Nom)</th> <th colspan="3">Nominal Thickness of Sheath</th> <th colspan="3">Approx. Overall Diameter</th> <th rowspan="3">Current Rating AC</th> <th colspan="2">Voltage Drop/ Amp/Metre</th> <th rowspan="3">Max. Conductor Resistance per KM at 20°C</th> </tr> <tr> <th>Two Core</th> <th>Three Core</th> <th>Four Core</th> <th>Two Core</th> <th>Three Core</th> <th>Four Core</th> <th rowspan="2">DC or Single Phase AC</th> <th rowspan="2">3 Phase AC</th> </tr> <tr> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>mm</th> <th>Amps</th> <th>mV</th> <th>mV</th> <th>Ohms</th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>16/0.20</td> <td>0.6</td> <td>0.9</td> <td>0.9</td> <td>0.9</td> <td>6.2</td> <td>6.6</td> <td>7.2</td> <td>6</td> <td>83</td> <td>72</td> <td>39.0</td> </tr> <tr> <td>0.75</td> <td>24/0.20</td> <td>0.6</td> <td>0.9</td> <td>0.9</td> <td>0.9</td> <td>6.5</td> <td>6.9</td> <td>7.6</td> <td>9</td> <td>56</td> <td>48</td> <td>26.0</td> </tr> <tr> <td>1.0</td> <td>32/0.20</td> <td>0.6</td> <td>0.9</td> <td>0.9</td> <td>0.9</td> <td>6.9</td> <td>7.3</td> <td>8.2</td> <td>14</td> <td>43</td> <td>37</td> <td>19.5</td> </tr> <tr> <td>1.5</td> <td>30/0.25</td> <td>0.6</td> <td>0.9</td> <td>0.9</td> <td>1.0</td> <td>7.6</td> <td>8.2</td> <td>9.3</td> <td>18</td> <td>31</td> <td>26</td> <td>13.3</td> </tr> <tr> <td>2.5</td> <td>50/0.25</td> <td>0.7</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>9.0</td> <td>9.6</td> <td>10.5</td> <td>24</td> <td>18</td> <td>16</td> <td>7.98</td> </tr> <tr> <td>4.0</td> <td>56/0.30</td> <td>0.8</td> <td>1.0</td> <td>1.0</td> <td>1.0</td> <td>10.3</td> <td>10.9</td> <td>12.3</td> <td>32</td> <td>11</td> <td>9.6</td> <td>4.95</td> </tr> </tbody> </table>											Nominal Cross Sectional Area of Conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Nominal Thickness of Sheath			Approx. Overall Diameter			Current Rating AC	Voltage Drop/ Amp/Metre		Max. Conductor Resistance per KM at 20°C	Two Core	Three Core	Four Core	Two Core	Three Core	Four Core	DC or Single Phase AC	3 Phase AC	mm	mm	mm	mm	mm	mm	Amps	mV	mV	Ohms	0.5	16/0.20	0.6	0.9	0.9	0.9	6.2	6.6	7.2	6	83	72	39.0	0.75	24/0.20	0.6	0.9	0.9	0.9	6.5	6.9	7.6	9	56	48	26.0	1.0	32/0.20	0.6	0.9	0.9	0.9	6.9	7.3	8.2	14	43	37	19.5	1.5	30/0.25	0.6	0.9	0.9	1.0	7.6	8.2	9.3	18	31	26	13.3	2.5	50/0.25	0.7	1.0	1.0	1.0	9.0	9.6	10.5	24	18	16	7.98	4.0	56/0.30	0.8	1.0	1.0	1.0	10.3	10.9	12.3	32	11	9.6	4.95	Per Meter (As per Requirement)	
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5.	PVC Pipe Fitting	.75 Inch Pipe PVC											Per Meter (As per Requirement)																																																																																																														

6. Wireless
Microphone

• **Specifications**

TRANSMITTER

RF Output Power	Less than 15mW
Modulation Mode	FM(F3E)
Microphone Element	Dynamic, cardioid
Dynamic Range	80dB
Spurious Emission	<45dB
Maximum Deviation	±75kHz
Frequency Response	50-15,000Hz
Antenna Type	Internal dipole
Current Consumption	≤100mA
Controls	Transmitter ON/OFF Switch
Indication	Red & Green LEDs for indicating transmitter ON
Dimensions	ø55 (L248) mm
Weight	180g (w/o battery) approx.

RECEIVER

Frequency Stability	± 0.005% Quartz Crystal Controlled
Receiving Method	Non-diversity
Audio Output	Channel 1: 0-55mV / 1kΩ Channel 2: 0-55mV / 1kΩ Channel 1+2: 0-55mV / 1kΩ
S/N Ratio	≥80dB
Distortion	≤0.5%
Frequency Response	50-15,000Hz
Antenna	Telescopic
Power Requirement	240V AC 50Hz for AC adaptor (supplied along with)
Controls	Power On / Off Switch, Volume Control for Channel-1, Volume Control for Channel-2
Indications	Red LED for Power ON Green LED for RF reception on Channel-1 Green LED for RF reception on Channel-2
Dimensions	W230 x H42 x D150 mm
Weight	353g approx.

1 Set of Two
Nos

7.	Wired Microphone	<p>Frequency Response 50-15,000Hz</p> <p>Sensitivity 2.0mV/Pa</p> <p>Impedance 600Ω</p>	1 Nos	
8.	School Bell Software	<p>Up to 7 time tables with max. 100 entries Each day of the week can have it's own schedule.</p> <p>Plays WAV, MP3 and MIDI-files Any sound effect or song can be used.</p> <p>Different sounds for special events For instance to accent the closing time with another sound.</p> <p>Fade-out function to use song files The beginning of a song can be played. After some seconds it fades out to silence. The playing time and the fade-out time can be configured.</p> <p>Visualisation of the next event with a count down clock The colors of the clocks can be configured.</p> <p>Energy save mode The PC can be set to sleep at night, and will automatically wake up to play the first sound in the morning.</p> <p>Time synchronisation via Internet Always the accurate time. Works with all versions of Windows.</p> <p>Works in background SchoolBell only needs very little system resources. It can be minimized to tray and works in background, while the PC can be used for other tasks.</p> <p>Simple editing of schedules It is easy to set up the schedules with the time dialog. They can be saved and restored, and also be exported.</p>	1 Nos	

		A program or document can be activated on a timer event Each time a sound is played, a program, for instance a CMD batch file, can be invoked. Anything can be done with it, for instance control external hardware with a relay output.		
9.	PVC Pipe Wiring Charges	As per Site Visit	Per Meter (As per Requirement)	
10.	Speaker Installation Charges	As per Site Visit	Lumpsum	