



OFFICE OF THE PRINCIPAL
UDAYANATH AUTONOMOUS COLLEGE OF SCIENCE & TECHNOLOGY

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Letter No. 513.....

Date 17.06.2026

Quotation Call Notice

Quotations are invited for purchase of the following Public Address system items .Interested firms are required to quote their rate for supply of the items as detailed below by 25.06.2026.

Items

Items & Specification attached.

LOI

to

purchase

of

following

items

mentioned

below

W. D. Singh
17-06-26
Principal
Principal-in-Charge cum-Secretary
U.N. (Auto) College of Science & Tech.
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Core Components of a PA system

1. Microphones

- **Types:**
 - Wired (reliable, low cost)
 - Wireless (mobility, cleaner setup)
- **Guidelines:**
 - Speech → Dynamic microphones
 - Music/singing → Condenser microphones
- **What to check:**
 - Frequency response
 - Build quality
 - Battery life (for wireless)

2. Mixer (Audio Mixer Console)

- Combines and controls multiple audio inputs
- Adjusts volume, tone (EQ), effects

Guidelines:

- Small setup → 4-8 channel mixer
- Medium setup → 8-16 channel mixer
- Large setup → Digital mixer

Features to look for:

- Number of channels
- Built-in effects (reverb, delay)
- USB/Bluetooth connectivity

3. Amplifier

- Boosts audio signal to drive speakers

Guidelines:

- Match amplifier power (watts) with speakers
- Always keep 20-30% extra headroom

Types:

- Power amplifier (external)
- Powered mixer (mixer + amp combined)

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4. Speakers (Loudspeakers)

- Convert electrical signal into sound

Types:

- Passive (need amplifier)
- Active (built-in amplifier)

Guidelines:

- Indoor small hall → 8"-12" speakers
- Medium hall → 12"-15" speakers
- Outdoor/large area → line array or multiple speakers

Check:

- Power rating (W)
- Coverage angle
- Frequency range

5. Cables & Connectors

- XLR cables (balanced, best for mics)
- TRS/TS cables
- Speaker cables

Guidelines:

- Use high-quality, shielded cables
- Avoid very long runs unless balanced

6. Audio Source Devices

- Laptop / mobile / media player
- CD/DVD (if needed)

Optional:

- Bluetooth receiver
- USB playback

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7. Signal Processors (Optional but Recommended)

- Equalizer (EQ)
- Feedback suppressor
- Compressor/limiter

Guidelines:

- Important for large or professional setups
- Helps improve clarity and prevent distortion

8. Stands & Mounting Hardware

- Microphone stands
- Speaker stands / wall mounts

Guidelines:

- Stability and height adjustment
- Portable vs fixed installation

9. Power Supply & Backup

- UPS or inverter (important in areas with power cuts)
- Surge protectors

10. Accessories

- Rack cabinets (for equipment safety)
- Carry cases
- Windscreens for microphones

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Sample Purchase List (Medium Hall Setup)

- 2-4 Microphones (wired/wireless)
- 1 Mixer (8-12 channel)
- 1 Power amplifier (or powered mixer)
- 2-4 Speakers (12" or 15")
- Speaker stands (2)
- XLR cables (as required)
- Speaker cables
- Power extension board
- Optional: Equalizer, feedback suppressor

Key Buying Guidelines

1. Define Your Use Case

- Announcements only → basic system
- Music + events → higher quality system
- Outdoor → higher power & weather resistance

2. Power Matching Rule

- Speaker wattage \approx Amplifier output
- Avoid underpowering or overpowering

3. Coverage Planning

- Check area size (sq. ft / sq. m)
- Ensure even sound distribution (no dead zones)

4. Portability vs Fixed Installation

- Portable → lightweight, quick setup
- Fixed → better wiring, cleaner look

5. Budget Planning

- Allocate roughly:
 - Speakers → 40%
 - Amplifier → 20%
 - Mixer → 15%
 - Microphones → 15%
 - Accessories → 10%

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6. Brand & Support

Look for reliable brands like:

- Yamaha
- JBL
- Behringer
- Ahuja (popular in India for PA systems)

7. Future Expansion

- Choose mixers with extra channels
- Modular systems are better than fixed ones

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