



MAHATMA GANDHI UNIVERSITY
NALGONDA – 508254
(www.mguniversity.ac.in)

Tender No: 14 /MGU/NLG/2026-27

Dated: 22-09-2026

E-PROCUREMENT TENDER NOTICE
For Procurement of Integrated Audio System

Important Dates

Date of release of Tender through e-procurement	: 23-09-2026
Last date & time for submission of Bid	: 07-09-2026 at 5:30 PM
Date & time for opening of Technical Bid	: 08-09-2026 at 11:00 AM
Date & time for opening of Financial Bid	: 08-09-2026 at 3:00 PM

Online tenders are invited under Two-Bid system through e-Procurement Process from the reputed registered manufacturers or their authorized dealers/agencies or reputed suppliers having capacity to supply and install the **Integrated Audio System**, at Mahatma Gandhi University, Nalgonda as per the technical specifications & required quantity (as mentioned in Annexure-I) , and as per Terms & Conditions of the Contract through e- procurement process.

Sd/-
REGISTRAR

ANNEXURE-I

INTEGRATED AUDIO SYSTEM TECHNICAL SPECIFICATIONS

S.N.	Minimum Acceptable Specifications	Required Qty
1	Integrated Audio System	01
	a) 40W Wall Mount Speaker: (Qty- 6) : (Indicate Make/Model No)	
	The system should include a 1" dome tweeter and a 5 1/4" low-frequency loudspeaker.	
	The system should have a passive built-in crossover with a frequency of 2.5 kHz.	
	The system should have a frequency range of 55 Hz to 20 kHz (-10 dB) and 70 Hz to 18 kHz (± 3 dB).	
	The system should have an impedance of 8 Ω .	
	The system should have a maximum power handling of 100 W and a continuous power handling of 50 W.	
	The system should have a sensitivity of 87 dB (1W/1m).	
	The system should have a maximum sound pressure level of 102 dB at 100 V and 104 dB at 8 Ω .	
	The system should have a horizontal and vertical dispersion of 110°.	
	The system should have a line transformer with multiple power taps: 40 W at 250 Ω , 20 W at 500 Ω , and 10 W at 1000 Ω .	
	The system should have a terminal block connection for easy installation and daisy-chaining.	
	The system should have a rotatable logo for flexible orientation.	
	The system should have an ingress protection rating of IP40 for indoor models and IP55 for outdoor models.	
	The system should have a front finish of an aluminum grille.	
	The system should have a construction material of ABS plastic.	
	The system should include a mounting bracket for both horizontal and vertical mounting.	
	The system should have a built-in advanced protection network to protect the tweeter against overload.	
	The system should have an ingress protection rating of IP40, suitable for indoor use.	
	The system should have EASE/GLL file for acoustical modelling.	
	The system should have STL file/STEP file/OBJ file for CAD	

	modelling.	
	The system must comply with EMC directive, LVD directive, RoHS directive and REACH regulation. Certificate to this effect must be attached with the bid.	
	The system must have CE certification. Certificate to this effect must be attached with the bid.	
	Technical drawing (to-scale) of the system must be attached with the bid.	
	Acoustical data graphs must be attached with the bid.	
	The OEM must be in existence for over 10 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	b) 2-Channel 240W/Ch Class-D Power Amplifier : (Qty- 1) : (Indicate Make/Model No _____)	
	The system should provide two independent high-efficiency Class- D amplifier channels, each delivering 240 W continuous power into a 100 V line.	
	The system should have balanced XLR inputs for each channel, plus link- through male XLR outputs to daisy- chain multiple amplifiers.	
	The system should have individual gain control potentiometers per channel, offering sensitivity adjustment from –0.5 dB to +10.5 dB.	
	The system should include a high-pass filter switch at 400 Hz on each channel to protect speakers from low-frequency signals.	
	The system should achieve a frequency response of 50 Hz–22 kHz (± 3 dB) with signal- to- noise ratio > 100 dB and THD+N < 0.3% at half power (1 kHz).	
	The system should maintain channel crosstalk better than 80 dB and common- mode rejection ratio of ≥ 70 dB.	
	The system should operate from a 230–240 V AC, 50 Hz switching- mode power supply.	
	Minimum Acceptable Specifications	
	The system should include a temperature- controlled fan for active cooling	

	and minimal audible noise.	
	The system should include advanced protection circuitry for DC offset, short-circuit, overheating, overload, and signal limiting.	
	The system should utilize steel rack-mount chassis occupying 2 HE in a standard 19" rack, with terminal-block output connections.	
	The system should include a built-in signal limiter per channel to prevent transient-driven speaker damage.	
	The system should allow parallel speaker connections on the 100 V outputs until the maximum impedance load is reached.	
	The system should have STL file/STEP file/OBJ file for CAD modelling.	
	The system must comply with EMC directive, LVD directive, RoHS directive and REACH regulation. Certificate to this effect must be attached with the bid.	
	The system must have CE certification. Certificate to this effect must be attached with the bid.	
	Technical drawing (to-scale) of the system must be attached with the bid.	
	The OEM must be in existence for over 10 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	c) Wireless Handheld Microphone System : (Qty- 2) : (Indicate Make/Model No ____)	
	The system should have a frequency range of 824 – 831 MHz and 863 – 865 MHz.	
	The system should use FM modulation mode.	
	The system should support 2 sets of 4 selectable frequencies.	
	The system should allow 4 simultaneous frequencies.	
	The system should have a maximum deviation of ± 33 kHz.	
	The system should provide an operating range of 60 meters (typical).	
	The system should have a frequency response from 60 Hz to 16 kHz.	
	Minimum Acceptable Specifications	
	The system should maintain frequency stability within $\pm 0.005\%$ using phase lock loop frequency control.	
	The system should have an antenna switching diversity receiving system.	
	The system should provide a minimum image rejection of 55 dB.	

The system should have a sensitivity of 10 dB μ V (S/N 60 dB at 20 kHz deviation).	
The system should produce total harmonic distortion of less than 1% at 20 kHz deviation with a 1 kHz signal.	
The system should feature mic/line level control selectable between 0 dB and –20 dB.	
The system should include antenna inputs with BNC connectors, 50 Ω impedance, and bias voltage of 12 V DC, 100 mA per antenna.	
The system should have audio output levels of –2 dBV unbalanced and +4 dBV balanced.	
The system should provide output connectors including a 6.3 mm mono jack (unbalanced) and an XLRM-type connector (balanced).	
The system should have a squelch level adjustable between 2 μ V (minimum) and 60 μ V (maximum).	
The system should offer channel selection via a 2-digit 7-segment LED display.	
The system should be powered by 100–240 V AC with a DC output of 12 V, 500 mA.	
The system should have dynamic range of 108 dB.	
The handheld transmitter should have an RF output power of 10 mW.	
The handheld transmitter should limit spurious emissions in accordance with applicable national regulations.	
The handheld transmitter should use a condenser cardioid microphone element.	
The handheld transmitter should provide a battery life of approximately 10 hours depending on battery type and usage pattern.	
OEM should have own Research and Development centre.	
The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and execution capability.	
The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
Minimum Acceptable Specifications	

d) Wireless Lapel Microphone System : (Qty- 1) : (Indicate Make/Model No- _____)	
The system should have a frequency range of 824 – 831 MHz and 863 – 865 MHz.	
The system should use FM modulation mode.	
The system should support 2 sets of 4 selectable frequencies.	
The system should allow 4 simultaneous frequencies.	
The system should have a maximum deviation of ± 33 kHz.	
The system should provide an operating range of 60 meters (typical).	
The system should have a frequency response from 60 Hz to 16 kHz.	
The system should maintain frequency stability within $\pm 0.005\%$ using phase lock loop frequency control.	
The system should have an antenna switching diversity receiving system.	
The system should provide a minimum image rejection of 55 dB.	
The system should have a sensitivity of 10 dB μ V (S/N 60 dB at 20 kHz deviation).	
The system should produce total harmonic distortion of less than 1% at 20 kHz deviation with a 1 kHz signal.	
The system should feature mic/line level control selectable between 0 dB and –20 dB.	
The system should include antenna inputs with BNC connectors, 50 Ω impedance, and bias voltage of 12 V DC, 100 mA per antenna.	
The system should have audio output levels of –2 dBV unbalanced and +4 dBV balanced.	
The system should provide output connectors including a 6.3 mm mono jack (unbalanced) and an XLRM-type connector (balanced).	
The system should have a squelch level adjustable between 2 μ V (minimum) and 60 μ V (maximum).	
The system should offer channel selection via a 2-digit 7-segment LED display.	
The system should be powered by 100–240 V AC with a DC output of 12 V, 500 mA.	
The system should have dynamic range of 103 dB.	
The bodypack transmitter should have an RF output power of 10 mW.	
The bodypack transmitter should limit spurious emissions in accordance with applicable national regulations.	
The bodypack transmitter should provide a battery life of approximately 10 hours depending on battery type and usage pattern.	

	Minimum Acceptable Specifications	
	The lapel capsule should use a condenser cardioid microphone element.	
	The microphone cable length should be 1.4 m and be permanently attached to the microphone.	
	OEM should have own Research and Development centre.	
	The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and execution capability.	
	The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	e) Modular microphone system: (Qty- 2) : (Indicate Make/Model No-_____)	
	The system should have a fixed-charge back plate, permanently polarized condenser microphone in flush mount gooseneck form-factor.	
	The system should feature a cardioid polar pattern.	
	The system should have a frequency response of 30 Hz to 20,000 Hz.	
	The system should have an open circuit sensitivity of -40 dB (10.0 mV) referenced at 0 dB = 1V/Pa at 1 kHz.	
	The system should have a nominal impedance of 130 ohms.	
	The system should support a maximum input sound level of 140 dB SPL	
	The system should have a dynamic range of 112 dB	
	The system should offer a signal-to-noise ratio of 66 dB.	
	The microphone stem shall be 18 inches long.	
	The table top power module shall be equipped with a reversible 3-pin XLR connector on the top and rear of the module.	
	The electronic switch on the power module shall be operable in any of the following modes - touch on/off, momentary on (touch to talk) and momentary off (touch to mute).	
	The system shall also have an interchangeable modular cardioid capsule.	
	The system shall also have a foam windscreen for the microphone element.	
	OEM should have own Research and Development centre.	

	Minimum Acceptable Specifications	
	The OEM must have their own established service/support center in India for a minimum period of last 5 years for effective service support system during warranty and AMC periods.	
	The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and execution capability.	
	The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	f) Digital Smart Mixer : (Qty- 1) : (Indicate Make/Model No _)	
	The system should have six mic/line inputs and one unbalanced stereo input.	
	The system should have two balanced outputs and one unbalanced stereo output.	
	The system should feature selectable gain sharing or gate mode functionality.	
	The system should feature a high-performance AEC on each input channel.	
	The system should feature assignable noise cancellation on any output channel.	
	The system should have a built-in 4-band equalizer, compressor, and de-esser on each input channel.	
	The system should feature eight 8-band feedback suppressors assignable to mic/line inputs and any output channel.	
	The system should have a built-in 12-band parametric equalizer, compressor, and limiter on each output channel.	
	The system should feature audio input and output settings configurable from front panel without the need for a computer.	
	The system should support external remote control using Internet Protocol (IP).	
	The system should have a maximum gain of 64 dB.	
	The system should have a frequency response of 20 Hz to 20 kHz with the following tolerances: MIC -16 dBu at +1.0 / -1.0 dB, MIC -60 dBu at +1.0 / -2.0 dB, LINE +24 dBu at +1.0 / -1.0 dB, and LINE -40 dBu at +1.0 / -2.0 dB.	

	The system should have a dynamic range of 110 dB or higher and signal-to-noise ratio of 90 dB or higher, A-weighted stereo.	
	The system should have a headroom of 20 dB or higher.	
	The system should have an input-referred noise level of -126 dBu or less with a source impedance of 150 ohms as per DIN standard.	
	Minimum Acceptable Specifications	
	The system should have a common-mode rejection ratio of 80 dB or higher at 1 kHz.	
	The system should have a residual noise level of -86 dBu or less, A-weighted.	
	The system should have a channel separation of -80 dB or less at 1 kHz under unity gain conditions.	
	The system should have a total harmonic distortion of 0.03% or less at 1 kHz under unity gain conditions.	
	The system should support analog input levels as follows: MIC 1 to 6 maximum 0 dBu, unity -40 dBu; LINE 1 to 4 maximum +10 dBV, unity -10 dBV; LINE 5 to 6 maximum +24 dBu, unity at +4 dBu, 0 dBV, -10 dBV, or -20 dBV; ST input maximum +10 dBV, unity at -10 dBV or -20 dBV.	
	The system should support analog output levels as follows: unbalanced output maximum +10 dBV or -13 dBV, unity -10 dBV or -33 dBV; balanced outputs 1/L and 2/R maximum +24 dBu, +20 dBV, or +10 dBV, unity at +4 dBu, 0 dBV, or -10 dBV.	
	The system should have phantom power capability providing +48V DC.	
	The system should feature a pad attenuation level of -24 dB.	
	The system should have input and output connectors using 3-pin Euroblock terminals.	
	The system should feature a level indicator with red/yellow/green signal/peak display, with peak indication ranging from -5 to 0 dB and a peak hold time of 2 seconds.	
	The system should support IP-based remote control via a single RJ-45 port and a communication speed of 100 Mbps.	
	The system should support USB Type B connectivity with one stereo input and one stereo output channel, operating at 24-bit resolution and high-speed 480 Mbps communication.	
	The system should feature a 24-bit analog-to-digital and digital-to-analog converter with a dynamic range of 115 dB.	

	OEM should have own Research and Development centre.	
	The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and execution capability.	
	The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Minimum Acceptable Specifications	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	g) Cable with Connectors & Accessories: (As Per Requirement)	
	h) 9U Equipment Rack: (Qty- 1)	
	i) Integration & Programming	
	Minimum Acceptable Specifications	
1	Integrated Audio System	
	a) 40W Wall Mount Speaker: (Qty- 12): (Indicate Make/Model No)	
	The system should include a 1" dome tweeter and a 5 1/4" low-frequency loudspeaker.	
	The system should have a passive built-in crossover with a frequency of 2.5 kHz.	
	The system should have a frequency range of 55 Hz to 20 kHz (-10 dB) and 70 Hz to 18 kHz (± 3 dB).	
	The system should have an impedance of 8 Ω .	
	The system should have a maximum power handling of 100 W and a continuous power handling of 50 W.	
	The system should have a sensitivity of 87 dB (1W/1m).	
	The system should have a maximum sound pressure level of 102 dB at 100 V and 104 dB at 8 Ω .	
	The system should have a horizontal and vertical dispersion of 110°.	
	The system should have a line transformer with multiple power taps: 40 W at 250 Ω , 20 W at 500 Ω , and 10 W at 1000 Ω .	

	The system should have a terminal block connection for easy installation and daisy-chaining.	
	The system should have a rotatable logo for flexible orientation.	
	The system should have an ingress protection rating of IP40 for indoor models and IP55 for outdoor models.	
	The system should have a front finish of an aluminum grille.	
	The system should have a construction material of ABS plastic.	
	The system should include a mounting bracket for both horizontal and vertical mounting.	
	The system should have a built-in advanced protection network to protect the tweeter against overload.	
	The system should have an ingress protection rating of IP40, suitable for indoor use.	
	The system should have EASE/GLL file for acoustical modelling.	
	The system should have STL file/STEP file/OBJ file for CAD modelling.	
	Minimum Acceptable Specifications	
	The system must comply with EMC directive, LVD directive, RoHS directive and REACH regulation. Certificate to this effect must be attached with the bid.	
	The system must have CE certification. Certificate to this effect must be attached with the bid.	
	Technical drawing (to-scale) of the system must be attached with the bid.	
	Acoustical data graphs must be attached with the bid.	
	The OEM must be in existence for over 10 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	b) 2-Channel 480W/Ch Power Amplifier : (Qty- 1) : (Indicate Make/Model No ____)	
	The system should operate as a dual- channel Class- D amplifier with each channel capable of delivering 480 W continuous power into a 100 V constant- voltage distributed load.	
	The system should have a high-efficiency universal switching-mode power supply compatible with 230–240 V AC at 50 Hz.	

	The system should have frequency response covering approximately 50 Hz to 22 kHz within ± 3 dB tolerance.	
	The system should achieve a signal- to- noise ratio in excess of 100 dB.	
	The system should maintain total harmonic distortion plus noise (THD+N) below 0.3% at half rated power @ 1 kHz.	
	The system should ensure channel crosstalk less than 80 dB @ 1 kHz.	
	The system should provide balanced XLR female inputs with parallel link- through outputs and input sensitivity adjustable from -0.5 dB to $+10.5$ dB.	
	The system should have an input impedance of approximately 10 k Ω (balanced) and a common- mode rejection ratio of around 70 dB.	
	The system should offer a switch- selectable high- pass filter at 400 Hz on each channel.	
	The system should employ temperature- controlled fan cooling, with built- in protection circuitry against DC faults, short circuits, over- temperature, overload, and signal clipping/limiting.	
	Minimum Acceptable Specifications	
	The system should use 4- pin Euroblock (5.08 mm pitch) output connectors rated for 100 V lines and about 21 Ω impedance.	
	The system should feature front- panel LEDs per channel: signal presence, clip indicator, and protection/fault indicator, plus a main blue power- on LED.	
	The system should be housed in a robust 19" rackmount steel enclosure occupying 2 U height and designed for permanent indoor installations.	
	The system should monitor individual channel temperature in real time and adjust fan speed dynamically to minimize acoustic noise and ensure thermal stability.	
	The system should include a clip limiter that automatically reduces input gain to prevent audible distortion under overload conditions.	
	The system should allow daisy-chaining of input signals via parallel XLR link- through connectors for simplified multi-amplifier setups.	
	The system should have a simplified front-panel interface with only essential controls and switches for ease of installation and operation.	
	The system should support dual-zone audio distribution with fully independent channel control for multi- zone installations.	
	The bidder must attach relevant data- sheets/technical literature to ensure validation of the specifications.	
	The system should have STL file/STEP file/OBJ file for CAD modelling.	

	The system must comply with EMC directive, LVD directive, RoHS directive and REACH regulation. Certificate to this effect must be attached with the bid.	
	The system must have CE certification. Certificate to this effect must be attached with the bid.	
	Technical drawing (to-scale) of the system must be attached with the bid.	
	The OEM must be in existence for over 10 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	c) Wireless Handheld Microphone System : (Qty- 2) : (Indicate Make/Model No ____)	
	The system should have a frequency range of 824 – 831 MHz and 863 – 865 MHz.	
	The system should use FM modulation mode.	
	The system should support 2 sets of 4 selectable frequencies.	
	Minimum Acceptable Specifications	
	The system should allow 4 simultaneous frequencies.	
	The system should have a maximum deviation of ± 33 kHz.	
	The system should provide an operating range of 60 meters (typical).	
	The system should have a frequency response from 60 Hz to 16 kHz.	
	The system should maintain frequency stability within $\pm 0.005\%$ using phase lock loop frequency control.	
	The system should have an antenna switching diversity receiving system.	
	The system should provide a minimum image rejection of 55 dB.	
	The system should have a sensitivity of 10 dB μ V (S/N 60 dB at 20 kHz deviation).	
	The system should produce total harmonic distortion of less than 1% at 20 kHz deviation with a 1 kHz signal.	
	The system should feature mic/line level control selectable between 0 dB and –20 dB.	
	The system should include antenna inputs with BNC connectors, 50 Ω impedance, and bias voltage of 12 V DC, 100 mA per antenna.	
	The system should have audio output levels of –2 dBV unbalanced and +4	

	dBV balanced.	
	The system should provide output connectors including a 6.3 mm mono jack (unbalanced) and an XLRM-type connector (balanced).	
	The system should have a squelch level adjustable between 2 μ V (minimum) and 60 μ V (maximum).	
	The system should offer channel selection via a 2-digit 7-segment LED display.	
	The system should be powered by 100–240 V AC with a DC output of 12 V, 500 mA.	
	The system should have dynamic range of 108 dB.	
	The handheld transmitter should have an RF output power of 10 mW.	
	The handheld transmitter should limit spurious emissions in accordance with applicable national regulations.	
	The handheld transmitter should use a condenser cardioid microphone element.	
	The handheld transmitter should provide a battery life of approximately 10 hours depending on battery type and usage pattern.	
	OEM should have own Research and Development centre.	
	The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and execution capability.	
	The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
	Minimum Acceptable Specifications	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	d) Wireless Lapel Microphone System : (Qty- 2) : (Indicate Make/Model No- _____)	
	The system should have a frequency range of 824 – 831 MHz and 863 – 865 MHz.	
	The system should use FM modulation mode.	
	The system should support 2 sets of 4 selectable frequencies.	
	The system should allow 4 simultaneous frequencies.	
	The system should have a maximum deviation of ± 33 kHz.	

	The system should provide an operating range of 60 meters (typical).	
	The system should have a frequency response from 60 Hz to 16 kHz.	
	The system should maintain frequency stability within $\pm 0.005\%$ using phase lock loop frequency control.	
	The system should have an antenna switching diversity receiving system.	
	The system should provide a minimum image rejection of 55 dB.	
	The system should have a sensitivity of 10 dB μ V (S/N 60 dB at 20 kHz deviation).	
	The system should produce total harmonic distortion of less than 1% at 20 kHz deviation with a 1 kHz signal.	
	The system should feature mic/line level control selectable between 0 dB and -20 dB.	
	The system should include antenna inputs with BNC connectors, 50 Ω impedance, and bias voltage of 12 V DC, 100 mA per antenna.	
	The system should have audio output levels of -2 dBV unbalanced and +4 dBV balanced.	
	The system should provide output connectors including a 6.3 mm mono jack (unbalanced) and an XLRM-type connector (balanced).	
	The system should have a squelch level adjustable between 2 μ V (minimum) and 60 μ V (maximum).	
	The system should offer channel selection via a 2-digit 7-segment LED display.	
	The system should be powered by 100–240 V AC with a DC output of 12 V, 500 mA.	
	The system should have dynamic range of 103 dB.	
	The bodypack transmitter should have an RF output power of 10 mW.	
	Minimum Acceptable Specifications	
	The bodypack transmitter should limit spurious emissions in accordance with applicable national regulations.	
	The bodypack transmitter should provide a battery life of approximately 10 hours depending on battery type and usage pattern.	
	The lapel capsule should use a condenser cardioid microphone element.	
	The microphone cable length should be 1.4 m and be permanently attached to the microphone.	
	OEM should have own Research and Development centre.	
	The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and	

	execution capability.	
	The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	e) Modular microphone system : (Qty- 2) : (Indicate Make/Model No- _____)	
	The system should have a fixed-charge back plate, permanently polarized condenser microphone in flush mount gooseneck form-factor.	
	The system should feature a cardioid polar pattern.	
	The system should have a frequency response of 30 Hz to 20,000 Hz.	
	The system should have an open circuit sensitivity of -40 dB (10.0 mV) referenced at 0 dB = 1V/Pa at 1 kHz.	
	The system should have a nominal impedance of 130 ohms.	
	The system should support a maximum input sound level of 140 dB SPL at 1 kHz with 1% THD.	
	The system should have a dynamic range of 112 dB at 1 kHz at maximum SPL.	
	The system should offer a signal-to-noise ratio of 66 dB at 1 kHz, 1 Pa, A-weighted.	
	The microphone stem shall be 18 inches long.	
	The table top power module shall be equipped with a reversible 3-pin XLR connector on the top and rear of the module.	
	The electronic switch on the power module shall be operable in any of the following modes - touch on/off, momentary on (touch to talk) and momentary off (touch to mute).	
	Minimum Acceptable Specifications	
	The system shall also have an interchangeable modular cardioid capsule.	
	The system shall also have a foam windscreen for the microphone element.	
	OEM should have own Research and Development centre.	
	The OEM must have their own established service/support center in India for a minimum period of last 5 years for effective service support system during warranty and AMC periods.	
	The OEM should have an average annual turnover of at least 50 crores in	

	the last three financial years, to demonstrate financial stability and execution capability.	
	The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	f) Digital Smart Mixer : (Qty- 1) : (Indicate Make/Model No _)	
	The system should have six mic/line inputs and one unbalanced stereo input.	
	The system should have two balanced outputs and one unbalanced stereo output.	
	The system should feature selectable gain sharing or gate mode functionality.	
	The system should feature a high-performance AEC on each input channel.	
	The system should feature assignable noise cancellation on any output channel.	
	The system should have a built-in 4-band equalizer, compressor, and de-esser on each input channel.	
	The system should feature eight 8-band feedback suppressors assignable to mic/line inputs and any output channel.	
	The system should have a built-in 12-band parametric equalizer, compressor, and limiter on each output channel.	
	The system should feature audio input and output settings configurable from front panel without the need for a computer.	
	The system should support external remote control using Internet Protocol (IP).	
	The system should have a maximum gain of 64 dB.	
	The system should have a frequency response of 20 Hz to 20 kHz with the following tolerances: MIC -16 dBu at +1.0 / -1.0 dB, MIC -60 dBu at +1.0 / -2.0 dB, LINE +24 dBu at +1.0 / -1.0 dB, and LINE -40 dBu at +1.0 / -2.0 dB.	
	The system should have a dynamic range of 110 dB or higher and signal-to-noise ratio of 90 dB or higher, A-weighted stereo.	
	Minimum Acceptable Specifications	
	The system should have a headroom of 20 dB or higher.	
	The system should have an input-referred noise level of -126 dBu or less with a source impedance of 150 ohms as per DIN standard.	

The system should have a common-mode rejection ratio of 80 dB or higher at 1 kHz.	
The system should have a residual noise level of -86 dBu or less, A-weighted.	
The system should have a channel separation of -80 dB or less at 1 kHz under unity gain conditions.	
The system should have a total harmonic distortion of 0.03% or less at 1 kHz under unity gain conditions.	
The system should support analog input levels as follows: MIC 1 to 6 maximum 0 dBu, unity -40 dBu; LINE 1 to 4 maximum +10 dBV, unity -10 dBV; LINE 5 to 6 maximum +24 dBu, unity at +4 dBu, 0 dBV, -10 dBV, or -20 dBV; ST input maximum +10 dBV, unity at -10 dBV or -20 dBV.	
The system should support analog output levels as follows: unbalanced output maximum +10 dBV or -13 dBV, unity -10 dBV or -33 dBV; balanced outputs 1/L and 2/R maximum +24 dBu, +20 dBV, or +10 dBV, unity at +4 dBu, 0 dBV, or -10 dBV.	
The system should have phantom power capability providing +48V DC.	
The system should feature a pad attenuation level of -24 dB.	
The system should have input and output connectors using 3-pin Euroblock terminals.	
The system should feature a level indicator with red/yellow/green signal/peak display, with peak indication ranging from -5 to 0 dB and a peak hold time of 2 seconds.	
The system should support IP-based remote control via a single RJ-45 port and a communication speed of 100 Mbps.	
The system should support USB Type B connectivity with one stereo input and one stereo output channel, operating at 24-bit resolution and high-speed 480 Mbps communication.	
The system should feature a 24-bit analog-to-digital and digital-to-analog converter with a dynamic range of 115 dB.	
OEM should have own Research and Development centre.	
The OEM should have an average annual turnover of at least 50 crores in the last three financial years, to demonstrate financial stability and execution capability.	
The OEM must be in existence for over 25 years as on the bid submission date, to ensure proven industry experience and reliability.	

	Minimum Acceptable Specifications	
	The bidder must attach relevant data-sheets/technical literature to ensure validation of the specifications.	
	Tender-specific OEM Authorization is mandatory, else the bid shall not be considered.	
	g) Cable with Connectors & Accessories : (As Per Requirement)	
	h) Integration & Programming:	
	i) 9U Equipment Rack: (Qty- 1)	

Warranty: 1-year onsite comprehensive warranty, excluding items such as cables, connectors, batteries, bulbs, etc., and civil implements, if any.



MAHATMA GANDHI UNIVERSITY
NALGONDA – 508254
(www.mguniversity.ac.in)

INFORMATION SUPPORTING FOR CAPACITY / CREDIBILITY

1. The bidder should have Digital Signature so as to enable him to submit his/her bids online through e-tendering.
2. The bidder should be the manufacturer or authorized dealer of any manufacturer. He is required to furnish Performance Certificate for last three years showing turnover of the category of the items for which bid is submitted.
3. The bidder has to produce the proof of supplying the similar items for the preceding three (3) years to the Technical/Teaching/Research Institution of well-known high standard reputed Institutions and other Laboratories etc.
4. The bidder must furnish details of their 10-15 customers reputed institutions with full address, telephone number etc.
5. The bidder must furnish details of some relevant equipment supplies made, such as name of the equipment, order number, cost and date of supply etc. during the last financial year.
6. If the bidder is a manufacturer, he/she must furnish details of its organization, stating the number of personnel employed, manufacturing facilities, post sales service facilities and quality control systems etc.
7. If the bidder is an authorized dealer, he/she must furnish details of its organization, stating the number of personnel employed, tie-ups for post sales service facilities.
8. All the quoted items/equipment's should be of standard make.
9. Participating bidder shall pay fee @ i.e 0.03% of ECV +14 % of GST towards transaction fee on e-procurement at the time of bid submission in favour of TSTS, Hyderabad by way of Electronic payment Gateway. The transaction fee is not refundable.

Sd/-
REGISTRAR



MAHATMA GANDHI UNIVERSITY
NALGONDA – 508254
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GUIDELINES/PROCEDURE TO BE FOLLOWED IN E- PROCUREMENT

1. **Tender Processing Fee:-** Payment of Rs.5,000/- (Rupees Five thousand only) in the form of Demand Draft on any Nationalized Bank drawn in favour of the Registrar, Mahatma Gandhi University, Nalgonda payable at Nalgonda and handover it on or before closing date in the office of the Registrar, Mahatma Gandhi University, Nalgonda or the processing fee can be paid through online.
2. Tender fee once paid is neither refundable, transferable nor adjustable for other tenders.
3. **Submission of Bids:-** The bidders desirous to participate in 'e'-procurement shall submit their price bids in the standard formats prescribed in the Tender documents, displayed at tender.telangana.gov.in. The bidder should upload the scanned copies of all the relevant certificates, documents etc. at tender.telangana.gov.in in support of their price bids. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity.
4. **Payment of Bid Security (Earnest Money Deposit):** - The EMD has to be paid on 2.5% of the total bid cost shown in the tender document. The EMD shall be paid in online mode.
5. **Price Bid Opening:-** The Price Bids will be opened online by the concerned officer /officers on the specified date & time and the result will be displayed on the tender. Telangana.gov.in which can be seen by all the bidders who participated in the tenders. If any of the date earmarked for opening of technical or financial bids happens to be holiday, the bids will be opened on the very next working day.
6. **Processing Of Tenders:-** The concerned officer/officers will evaluate and process the tenders as done in the conventional tenders and the documents will be communicated to the bidder online.
7. **Rules for Financial participation of E-Procurement:-** The e-procurement system would be applicable for purchase of goods and execution of work as prescribed in General Financial Rules.
8. **Clarification/Assistance:** -For any query/clarification in respect of Technical aspect of e- procurement contact email: registrarmgu2007@gmail.com
For Technical support: Mr. D. Srinivas Reddy, 9985991248

Sd/-
REGISTRAR



MAHATMA GANDHI UNIVERSITY
NALGONDA – 508254

TERMS AND CONDITIONS

1. Procedure for submission of bids: -

- (i) The bidders desire to participate in “e- procurement shall submit their Technical and Price bids in the standard formats prescribed in the Tender documents, displayed at tender.telangana.gov.in. The bidder should upload the scanned copies of all relevant certificates, documents etc. in the tender.telangana.gov.in support of their price bids. The bidder shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity.
- (ii) Tender shall be uploaded as per guidelines indicated for e-procurement solution.
- (iii) The prices must be quoted in Indian Rupee only and it must be inclusive of all type of taxes etc.

2. Technical Specifications / Terms & Conditions: -

- (i) The detail technical specifications, quantity required for items covered under each category are mentioned in Annexure-I .
- (ii) The specification issued with this form of tender should not be altered by the Suppliers.
- (iii) The specification of the item quoted by the firm should be in conformity with the University specifications. Where the tenderer feels that the specification of the item not fully given or differ, from the specification of the item mentioned by the University, the exact specification of such item should be attached with the tender indicating the item quoted. The bidder should not mention best quality/good quality/superior quality etc. but give make and brand of the item quoted.
- (iv) The Firm is required to attach the University specifications with catalogues & Design leaflets/literature for each item. Detailed features, for compliance of specification should be provided on specification sheet & appropriate reference i.e. page no. & para of literature, leaflet where the relevant information CAN BE checked, should be indicated.

3. Cost of Bidding:-

- (i) The bidder shall bear all the costs associated with the preparation and submission of bids through e-tendering system. The Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- (ii) The bidder is expected to examine all instructions, forms terms & conditions in the Bid documents, failure to furnish all information required by the bid documents or submission of bid not substantially responsive to the documents in every respect will be at the bidder risk and may result in the rejection of their Bid.

4. Bid Validity: -

Both technical and financial bids shall remain valid for a period of six months from the date of order for supply & installation of equipment.

5. Quotation: -

- (i) The quoted price should be mentioned inclusive of all taxes such as customs duty etc , but GST should be mentioned separately as given in the Price Bid format. The aggregate price quoted along with all taxes should not exceed the M.R.P. of the items.
- (ii) Revisions of rates are not allowed after the opening of tenders and the same rates are valid for a period of six months only.
- (iii) In case tenderer not able quote for one or more of the items invited for in the tender the word “NOT QUOTED” (in the rate column) should be indicated.

6. Earnest Money Deposit (EMD): -

2.5% of the total bid cost will be taken as EMD paid through online mode only. Bank.

7. Delivery Period and its extension: -

- (i) The minimum delivery period should be clearly mentioned against each item, incase, the items are not readily available; ex-stock offer will be preferred.
- (ii) The supplies shall have to be made within the mentioned in the date of purchase order issued. However, in exceptional circumstance and, on written request, from the supplier/ tenderer, extension of date for supply of the material may be considered. Extension in supply period is at the sole discretion of the competent authority. If the supplier fails to deliver any or all of the goods or to perform the services within delivery period including extension, if any, the purchaser shall without prejudice to its other remedies under the contract, as a liquidated damages @ 1% per week on undelivered items. Once the maximum deduction of 9% is reached, the purchaser will terminate the contract and forfeit the performance security for undelivered goods.
- (iii) In exceptional circumstances, the purchaser may solicit the bidder's consent for an extension of the period of validity of 60 days. The request and the response thereto shall be made in writing. The validity of Performance Security provided shall also be suitably extended.
- (iv) If the Contractor / Supplier fails to deliver/install the stores or any installment thereof within the period fixed for such delivery or at any time repudiates the contract before the expiry of such period, Registrar, Mahatma Gandhi University, Nalgonda -508254 may without prejudice to the right of the purchaser may recover damages for breach of the contract.

8. Insurance of Consignment: -

Consignment will be insured at the cost of Tenderer/Supplier till satisfactory supply and installation of the equipment and not at the cost of Institute.

9. Submission of On-line Bid: -

The Tenderers are required to upload the scanned copies of the following information/documents along with technical/ financial bids at tender.telangana.gov.in

- a. Copy of GST Registration Number.
- b. Copy of Challan submitting of last three (2023-24, 2024-25 and 2025-26) GST / Annual Sales Tax Return, duly signed and stamped by Trade & Taxes Department of the concerned State.
- c. Copy of PAN card.
- d. Copy of annual financial turnover (Trading A/c and Balance Sheet) for the last three years (2023-24, 2024-25 and 2025-26), duly audited by C.A.).
- e. Copy of EMD submitted.
- f. Annexure –I-A duly filled in and signed by the Tenderer.
- g. Copy of GST Clearance upto March, 2026.
- h. Copy of Product Catalogue of respective items quoted, having items model number, its specifications, complete address of manufacturer etc.
- i. Copy of Specification Comparison Statement (tabular comparison) of required specification and offered specifications.
- j. Copy of authorization certificate issued by manufacturer of respective item, in case bidder is an authorized dealer.
- k. Proof of at least 03 supply orders of similar equipment, like name of the equipment, order number, cost and date of supply etc. during the last 3 years.

10. Opening of Financial Bid:-

- (i) The financial bids of only those bidders will be opened who fulfill the eligibility criteria required and whose documents are found in order, on the date and time earmarked for opening of bids.
- (ii) If any of the date earmarked for opening of technical & financial bids happens to be holiday, the bids will be opened on the very next working day.
- (iii) The bidder's representative, who are present shall have to sign on the minutes of bid opening document for evidencing their attendance.
- (iv) The rates of items found, as per specification of Tender Document of the respective firm will be announced.

11. Bid Rejection:-

- (i) The bid will be rejected out rightly in case of non-uploading the scanned copies of any of the following documents at tender.telangana.gov.in
 - a. Copy of GST Registration Number.
 - b. Copy of Challan submitting of last three (2023-24, 2024-25 and 2025-26) GST / Annual Sales Tax Return, duly signed and stamped by Trade & Taxes Department of the concerned State.
 - c. Copy of PAN card.
 - d. Copy of annual financial turnover (Trading A/c and Balance Sheet) for the last three years (2023-24, 2024-25 and 2025-26), duly audited by C.A.)
 - e. Copy of EMD submitted.

- f. Annexure 1-A duly filled in and signed by the Tenderer.
- g. Product Catalogue of respective items quoted, having items model number, its specifications, complete address of manufacturer etc..
- h. Copy of authorization certificate issued by manufacturer of respective item, in case bidder is an authorized dealer.
- i. Proof of at least 03 supply orders of similar equipment, like name of the equipment, order number, cost and date of supply etc. during the last 03 years to the Technical/Teaching/Research Institution of well-known high standard Institutions e.g. I.I.T/N.I.T/C.S.I.R and other Laboratories etc.
- j. Specification Comparison Statement (tabular comparison) of required specification and offered specifications.

(ii) The bids will also be rejected out rightly under any one or more of the following cases: -

- a. If the Annual Turnover of the bidder is less than 5 Crores.
- b. Non-submission of original processing fee to the undersigned, before the date of closing of bids.
- c. Not meeting the technical specifications.
- c. If the bidder is not found eligible as per requisite criteria.
- d. If the column found blank and quoted rates are not as per criteria.
- e. If the Technical and/or Financial Bid is not signed and stamped by the bidder.
- f. If the prices are quoted other than in Indian Rupee.
- g. If the bidder found indulging in malpractice of pooling of bid.
- h. If the bidder provides Conditional/Incomplete quotation.
- i. Non-production of items for demonstration, if desired.
- j. Non-production of original documents for verification.
- k. Non-submission of information in support of Capacity/Credibility of the organization.
- l. Submission of any wrong information.
- m. Non-submission of Printed Product Catalogue of respective items quoted, having items model number, its specifications, complete address of manufacturer etc

- (iii) The Competent Authority reserves the right to reject any or all the tenders without assigning any reason, at any stage, and his decision will be final.

13. Evaluation and Comparison of Bids: -

- (i) The purchaser's price evaluation of the bid will be as below: -
Unit rate of item inclusive of Excise Duty / CST / any other tax (including GST), if any.
- (ii) The bidder should quote all the rate on the basis of the delivery at the purchaser site. No extra transportation charges, delivery charges, installation charges will be paid or considered.
- (iii) The purchaser will evaluate and compare the total bid price for each item,

which have been determined to be substantially responsive as per the qualified criteria of bidder.

- (iv) The Competent Authority of the College does not bind himself/ herself to accept the lowest or any tender.
- (v) If the bidder has quoted longer delivery period than the stipulated as above in item No. '7', an amount of 1% of the quoted price shall be added per week for the period beyond the stipulated period in the quoted price for the purpose of financial evaluation of tender.

14. Notification of Contract and Placement of Supply Order:-

- (i) Prior to the expiration of the period of bids validity, the purchaser will notify the successful bidders in writing that their bid has been accepted.
- (ii) The notification of award will constitute the formation of the contract.
- (iii) Upon the successful bidder's furnishing of Performance Security, the purchaser will promptly notify each unsuccessful bidder and will discharge its EMD.

15. Inspection: -

- (i) The inspection of the goods shall be carried out to check whether the goods are in conformity with the technical specifications attached to the contract.
- (ii) The final inspection of the goods ordered shall be carried out by the technical expert committee duly constituted by the University.
- (iii) If the firm fails to supply items as per specifications mentioned in the contract within stipulated time, its performance security will be forfeited.

16. Change in quantity of equipment: -

The purchaser reserve the right at the time of award of contract to increase or decrease the quantity of goods specified in the schedule of requirement without any change in price or other terms and conditions.

17. Payment: -

The payment will be made within 60 days after the successful demonstration/ installation of the equipment. Rejected items/goods should be removed within 30 days after which no responsibility will be lies with the University .

18. Performance of Product: -

- (i) Service manuals, wherever available/required, should be provided along-with the Equipment.
- (ii) A WARRANTY certificate should invariably be supplied along with the item at the time of delivery and the validity of the Warranty Certificate should be valid from the date of installation of the item for a minimum period of one year. Non-Compliance of the same will result in non-acceptance of the item from the firm with whom the order was placed beside rejection of the tender.
- (iii) The supplier warrants the goods supplied under the contract are new, unused

and most recent. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design or materials or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods in the conditions at the consignee place.

19. Cancellation of Contract: -

- (i) Demonstration of equipment has to be arranged by the suppliers, if desired by the University. Non-production of items for demonstration will result in rejection of the tender.
- (ii) If the Supplier, in the opinion of the University fails or neglects to comply with any of the terms & conditions forming, part of the order issued, the head of University shall without prejudice to any other right or remedies under the contract, has the right to cancel the contract /order by giving 15 days' notice in writing to the Suppliers/firms without being liable to pay compensation for such cancellation.
- (iii)
 - a. If the supplier fails to execute the supply order by the date; specified in the order or within any extension thereof granted by the purchaser;
 - b. If the supplier fails to perform any other obligation under the contract;
 - c. If the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practice in executing the contract;the purchaser may, without pre-judice to any other remedy for breach of contract, by written notice, terminate the contract in whole or in part.

20. Forfeiture of Bid Security: -

- a. The bid security will be forfeited, if the bidder withdraws its bid during the period of bid validity.
- b. In the case of successful bidder, if the bidder fails to sign the contract or fails to submit the performance security, the bid security will be forfeited.
- c. "Force Majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such an event may include but are not restricted to, acts of the purchaser, either in its sovereign or contractual capacity, wars or revolution, fire, floods, epidemics, quarantine restrictions and freight embargoes.
- d. If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligation under the contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by

the force majeure event.

23. Resolution of Dispute:-

- (i) The purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation on any disagreement or dispute arising between them under or in connection with the contract.
- (ii) Any dispute is subject to the jurisdiction of the Nalgonda, Telangana State Courts only.

Note: Bidder should note that, the documents submitted online shall be considered only for bidding. The University shall have the right to demand the copy/ photocopy of any document which is submitted online through e-procurement website and the photocopy of any document which is not legible or readable. If any contractor fails to provide the requisite information/document within 03 (three) days, the University reserves the right to disqualify the bid.

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REGISTRAR



ANNEXURE-I-A

MAHATMA GANDHI UNIVERSITY
NALGONDA – 508254
(www.mguniversity.ac.in)

(TO BE SUBMITTED ALONG WITH TECHNICAL BID)

TENDER I.D. NUMBER : _____

1. File Reference Number : _____
2. Name & Address of the Firm : _____

3. Contact Number : Office : _____
Mobile No. _____
4. Name(s) of the Partner : (1) _____
(2) _____

5. Whether Manufacturer or : _____
Authorized Dealer in r/o quoted item/s
6. GST Registration No. : _____
7. PAN Card No. : _____
8. Name of items for which quoted : _____

- Amount _____
9. Details of EMD Submitted : Dated _____
Ref. No. _____
Bank _____

10. Whether agree for demonstration at : College Premises / Manufacturer Site /
Site where item already installed

I / we undertake to abide the terms and conditions provided with the tender documents.

Dated:

(Signature of Tenderer)

Name in BLOCK Letters: _____

Stamp of the firm

(TO BE SUBMITTED ALONG WITH TECHNICAL BID)

TENDER I.D. NUMBER : _____

TENDER FORM

The Registrar
Mahatma Gandhi University
Nalgonda.

Sir,

We, the undersigned (herein after called as Contractor/Vendors/Suppliers) hereby offer to execute supply of items as per specification against which we have quoted over rates and for which this tender may be accepted at the rates stated there in and subject to the terms & conditions set forth for such items as may be ordered by the Registrar, Mahatma Gandhi University, Nalgonda, or officer acting on his/her behalf.

Date this _____ Day of _____

Signature of Contractor _____

Address _____
