PRASAR BHARATI
(India's Public Service Broadcaster)
New Broadcasting House, Akashvani Delhi
New Delhi-110001.

No. J-16023/47/2026-ENGG - AIR DELHI

Dated: 04/06/2026

Subject: Draft Technical Specifications for Supply of Professional Audio Equipment at Akashvani, Delhi for seeking Vendors/OEMs Feedback and Budgetary Quote.

1. Technical Specifications for supply of Professional Microphones, Headphones, Stage Monitors and Audio Monitors for Akashvani, Delhi are being uploaded to invite feedback from Vendors/OEMs dealing with supply of such equipment. Interested parties are requested to provide their comments/feedback on these technical specifications.
2. The budgetary prices of the offered equipment/items may also be submitted.
3. The above information may be provided by e-mail to ddgenbh@prasarbharati.gov.in and enggstorenbh@gmail.com on or before 20/06/2026.

04.06.2026

(JITENDER PRUTHI)
Dy. Director General (E)

Bill of Quantity:

Item Number	Item Title	Item Description	Item Quantity	Unit of Measure
1	Dynamic Mike	Dynamic Cardioid Microphone	20	Nos
2	Condenser Mike	Condenser Cardioid Microphone	6	Nos
3	Wired Lapel Mike	Wired Lapel Microphone	3	Nos
4	Boundary layer mike	Omni Directional Microphone	4	Nos
5	Short ShotGun Mike	Short Shotgun Mike for OB Recording	2	Nos
6	Wireless Mike	Wireless microphone with receiver and in Built recording	4	Nos
7	Professional Headphone for OB	Professional headphone for use in Out Broadcasting	8	Nos
8	Stage Monitor	Audio Monitor for Feedback to Artists	1	Pair
9	10” Audio Monitor	10” Audio Monitor	1	Pair

Specifications:

1. Dynamic Mike

Sno	Parameter	Parameter Value
1	Microphone Type	Dynamic
2	Polar pattern	Cardioid
3	Frequency Response	50 Hz-15000Hz
4	Sensitivity	-54.5 dBV/Pa
5	Impedance	150 Ohm rated
6	Connector	XLR
7	To be used for	Vocal recordings
8	Accessories required with Microphone	Microphone stand adaptor
9	Acceptable Model	Shure SM58 or Equivalent

2. Condenser Mike

Sno	Parameter	Parameter Value
1	Microphone Type	Large Diaphragm Condenser
2	Polar pattern	Cardioid
3	Frequency Response	20 Hz-20000Hz
4	Sensitivity	-29 dBV/Pa
5	Maximum SPL	132 dB SPL or better
6	Equivalent Noise Level	4.5 dBA (A weighted)
7	Impedance	100 Ohm
8	Connector	XLR
9	Phantom Power	+48 V
10	To be used for	Vocal & instrumental
11	Accessories required with Microphone	Shock Mount & POP Filter
12	Acceptable Model	Rode NT1 5th Generation Mike or Equivalent

3. Wired Lavalier Mike

Sno	Parameter	Parameter Value
1	Microphone Type	Electret Condenser Lavalier Mike
2	Polar pattern	Omnidirectional
3	Frequency Response	40 Hz-15000Hz
4	Sensitivity	-53 dBV/Pa
5	Maximum SPL	122 dB SPL
6	Equivalent Noise Level	32 dBA
7	Impedance	250 Ohm
8	Connector	XLR
9	Power	Battery Powered (Preferrable 1.5 V AA Battery)
10	Cable Length	should be 2 Meter or more
11	Accessories required with Microphone	Wind screen, holder Clip & carrying case
12	Acceptable Model	Sony ECM 44 B or equivalent

4. Boundary layer Mike

Sno	Parameter	Parameter Value
1	Microphone Type	Boundary Layer Electret Condenser
2	Polar pattern	Cardioid Boundary Layer
3	Frequency Response	50 Hz-20000Hz
4	Sensitivity	-30 dBV/Pa
5	Maximum SPL	120 dB SPL
6	Equivalent Noise Level	22 dBA
7	Switch for Selection	Three position Bass Tilt Switch
8	Connector	XLR
9	Phantom Power	12-48 V
10	To be used for	Conference Room/Live Drama Performance
11	Accessories required with Microphone	Wind screen, holder Clip & carrying case
12	Acceptable Model	AKG PCC130PKG or Equivalent

5. Short Shotgun Mike

Sno	Parameter	Parameter Value
1	Microphone Type	Condenser Short Shotgun Microphone
2	Polar pattern	SuperCardioid
3	Frequency Response	40 Hz-20000Hz
4	Sensitivity	21 mV/Pa (−33.5 dBV/Pa approx.)
5	Maximum SPL	132 dB
6	Equivalent Noise Level	15 dBA or lower
7	Connector	XLR
8	Phantom Power	12-48 V
9	Accessories	Shockmount & Windscreen should be included
10	Acceptable Model	Sennheiser MKE600 or equivalent

6. Wireless Mike

Sno	Parameter	Parameter Value
1	Microphone Type	Condenser Capsule
2	Polar pattern	Omni-directional
3	Frequency Response	60 Hz-20000Hz
4	Maximum SPL	113 dB
5	Signal to noise Ratio	78.5 dBA
6	Nos of Microphones with Wireless Transmitters	2 Nos
7	Nos Of Receivers	1 No. Capable of receiving both Transmitter outputs
8	Charging bar	A Single Charging bar for Charging of both Transmitters and Receiver should be provided.
9	Wireless Connectivity Band	Digital Connectivity In Free Band Range of 2.4 GHz
10	Wireless coverage Range	More than 200 Meter in Line of Sight and More than 100 meters with obstacles in between
11	Latency	<8 ms
12	Internal Recording feature	Transmitter Should have Internal recording Memory of 16 GB with 32 bit Floating
13	Transmitter Battery Capability	Sufficient for 7 Hours of Recording and Transmitting
14	Charging bar Charging Time	Charging Bar should get fully charged in maximum of three hours
15	Connectors	Digital Output on USB- C Type connector One TRS Output in 3.5 mm Connector One Headphone Output
16	Accessories	USB C adaptor should be included
17	Acceptable Model	Sennheiser Wireless Profile 2 Channel or equivalent

7. Specification of Professional Headphone for OB Use

Sno	Parameter	Parameter Value
1	Type	Closed Back
2	Driver size	40 mm
3	Sensitivity (dB SPL/V @ 1 kHz)	110 dB
4	Impedance	32 Ohm or less
5	Frequency Bandwidth	18 Hz to 20 Khz
6	Maximum input power	200 mW or better
7	Weight	200 gram or less
8	Cable Length	2.5 Meter
9	Wearing Style	Over Ear
10	Earpads	Replaceable
11	Connector Type	6.3 mm TRS Jack & 3.5 mm Jack
12	Accepted Audio	Balanced Audio
13	Magnetic Shielding	to avoid the interference when used in close proximity to other audio & video systems
14	Acceptable Model	Sennheiser HD 280 Pro or equivalent

8. Stage Monitor

Sno	Parameter	Parameter Value
1	Purpose	For use as floor monitor.
2	Digital Signal Processing	In Built
3	Type of Monitor	2 way bi-am powered loud speaker
4	LF	12” Cone
5	HF	1.75” HF Diaphragm
6	Frequency Range	55 Hz -20 kHz
7	Horizontal Coverage	90 º
8	Vertical Coverage	90 º
9	Maximum Output Level	128 dB
10	Amplifier	Class D
11	Dynamic Power Rating	1000 W (800 w LF & 200 W HF)
12	Continuous Power rating	465 W (400 w LF & 65 W HF)
13	Digital parameters	48 kHz Sampling 24 Bit
14	Input Connectors	2 Nos Combo connectors
15	Output Connectors	1 No XLR Connector
16	Acceptable Model	Yamaha DHR 12 M or equivalent

9. 10” Powered Audio Monitor

Sno	Parameter	Parameter Value
1	Purpose	For use as Loud Speaker.
2	Digital Signal Processing	In Built
3	Type of Monitor	2-Way Powered Loudspeaker
4	LF	10” Cone
5	HF	1.4” HF Diaphragm
6	Frequency Range	55 Hz -20 kHz
7	Horizontal Coverage	90 ^{o}
8	Vertical Coverage	60 ^{o}
9	Maximum Output Level	122 dB SPL or higher
10	Peak Power Rating	700 W or higher
11	Digital parameters	48 kHz Sampling 24 Bit
12	Input Connectors	Minimum 2 Combo (XLR/TRS) Input Connectors
13	Accessories to be included	Stand for mounting the speakers
14	Acceptable Model	Yamaha DHR10 or equivalent