



BHARAT HEAVY ELECTRICALS LIMITED

RC Puram, Hyderabad - 32

Human Resource Development Centre

Specifications of PA items



## Annexure 1

### 1. Specification of Cordless Handheld Mic

#### UHF wireless Microphones-Handheld

##### Audio Input Level:

+2dBV maximum at -10dB position

-8dBV maximum at 0dB position

**RF: Transmitter output:** 30mW maximum

Power Requirements: 2 "AA" size alkaline or rechargeable batteries.

Gain adjustment range 10db

##### Receiver

Audio output level (Ref. +/-38K-hz deviation with 1KHz tone)

XLR connector (into 600  $\Omega$  load): 13 dBV

1/4 inch connector (into 3000 $\Omega$  load): -2dBV .

**Sensitivity:** -105dBm for 12dB

SINAD, typical

**Image Rejection:** >70dB typical



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**Power Requirements:** 12-18Vdc at 150mA, supplied by external power supply. The DC power adaptor should be supplied by the vendor.

## **Output Impedance:**

XLR connector: 200  $\Omega$

¼ inch connector : 1k  $\Omega$

- Cordless Handmics should be able to operate at different frequencies so that at a time all handmics can be used simultaneously close to each other without any interference.
- Should be compatible with Ahuja amplifiers
- Power Cables, Audio output connector cable and required number of batteries for operating / proving out the microphone at our place should be provided with the microphone set.

## **2. Specification of Cordless Collar Mic**

**UHF wireless Microphones-Lapel(Collar)**

### **Audio Input level:**

+10dBv maximum at 0dB gain position

+20dBv maximum at -10dB gain position.



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## **RF, Transmitter Output:**

30mw maximum

Gain adjustment Range 30dB

Input Impedance 1M  $\Omega$ .

**Power Requirements:** 2 "AA" size alkaline rechargeable batteries.

battery life: >8 hours(alkaline)

## **Receiver**

Audio output level (Ref. +/-38K-hz deviation with 1KHz tone)

XLR connector (into 600  $\Omega$  load): 13 dBV

1/4 inch connector (into 3000  $\Omega$  load): -2dBV.

**Sensitivity:** -105dBm for 12dB SINAD, typical

**Image Rejection:** >70dB typical

**Power Requirements:** 12-18Vdc at 150mA, supplied by external power supply. The DC power adaptor should be supplied by the vendor.

## **Output Impedance:**

XLR connector: 200  $\Omega$ .

¼ inch connector : 1k  $\Omega$ .

- Cordless Collar mics. should be able to operate at different frequencies so that at a time all Collar mics can be used simultaneously close to each other without any interference.



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- Should be compatible with Ahuja amplifiers.
- Power Cables, Audio output connector cable and required number of batteries for operating / proving out the microphone at our place should be provided with the microphone set.

### **3. Specification of Wireless Presenter**

- Effective range - 20 meters minimum
- 2.4 GHz wireless technology
- Provision of Laser pointer
- LCD display with timer
- The receiver should be Plug and play type (It should work with the computer system as soon as it is connected). Manual Installation of driver software by the user should not be required. It should be compatible with Windows 8, Windows 7, Windows XP, Windows Vista and all other Windows operating system.
- Multiple Wireless presenter sets should be able to operate at a time simultaneously without any interference in different PCs kept close to each other.
- Receiver, carrying case, Batteries, manuals are to be provided along with the wireless presenter.