



DIRECTORATE OF AVIATION

Govt. of Chhattisgarh, State Hangar

Phone No: +91(0)771-2274020

DRP LINES, POLICE GROUND

Fax No. : +91(0)771-2274020

RAIPUR : 492001, INDIA

TENDER NOTICE

Tender No: DA/Engg/Tender/04-2010,

Date: 10-03-2010

The Directorate of Aviation invites offers to provide VHF Air Band Radio Transreceiver (Aircraft to Ground Level communication system) and HF Radio Transreceiver (Ground Level – City to City communication system) to install in the Air Traffic Control Room at about 06 places of Chhattisgarh state's Civil Aerodromes.

Interested manufacturer / supplier may submit their quotation with reference to the technical specification, which can be obtained by visiting our web site:

www.chhattisgarh.gov.in

Terms & Conditions:

1. Rate must be quoted separately for each item in the same Tender form as per required specifications.
2. The company / manufacturer who has supplied more than 05 sets either VHF or HF as per aviation standard can only apply.
3. Address and contact no. of Govt. / Companies to whom these systems have been supplied must be given along with Tender form.
4. Tender application not accompanying list of supply of 05 sets of this systems will be rejected out rightly.
5. Cost of an item, terms of payment and delivery time must also be mentioned in the tender form.
6. Earnest Money Deposit Rs. 10,000.00/- (Rs. Ten Thousands only) in the form of DD in favour of "The Director, Directorate of Aviation, Raipur" Payable at Chhattisgarh.
7. Sealed Tender form must be submitted to this office up to 03:00 pm on 25-03-2010.

Sd/- Director
Directorate of Aviation



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TENDER NOTICE

This has reference to our Tender Notice No. DA/Engg/Tender/04-2010, Dated: 10-03-2010. All technical specifications regarding the manufacture / supply of VHF Air Band Radio Transreceiver (Aircraft to Ground Level communication system) and HF Radio Transreceiver (Ground Level – City to City communication system) as given below:-

1. **SPECIFICATIONS** : **For VHF Air Band Radio Transreceiver (Aircraft to Ground Level communication system)**

General

- Frequency range : 118.00 to 136.975MHz
- Channel spacing : 25 kHz AND 8.33 kHz
- Mode : AM (6K00A3E)
- Number of memory channels : 99
- Acceptable power supply : 11.7 V or 31 VDC (Negative ground only)
- Usable temp. range : -30°C to +60°C
- Frequency stability : +/- 5ppm
- Current drain : TX: 6A(max) RX :6A(max) Standby: 260mA
- Dimensions : W150 X D190 X H50 (mm)
- Weight : 1700g

Transmitter

- Output power : 9 W (carrier), 36W (pep)
- Modulation : Last stage modulation
- Modulation limiting : 70 to 100%
- Audio Harmonics distortion : Less than 15% (at 85% modulation)
- Hum and noise ratio : More than 40dB
- Spurious emissions : -16dBm or less
- Antenna impedance : 50Ω

Receiver

- Receive system : Double conversion super-heterodyne
- Intermediate frequency : 1st : 38.85MHz (Upper) 2nd : 450kHz (Lower)
- Sensitivity (at 6dB S/N) : Less than 1uV

- Squelch sensitivity : 0.5uV (Threshold)
- Selectivity a) : More than $\pm 8\text{kHz}$ (at 6dB) Less than $\pm 25\text{kHz}$ (at 60dB)
 b) : More than $\pm 2.778\text{kHz}$ (at 6dB) Less than $\pm 7.37\text{kHz}$ (at 60dB)
- Spurious response rejection : More than 60dB
- Audio output power : More than 15W (at 4 Ω)
- Side tone : More than 100mW (at 600 Ω)
- Hum and noise : More than 25dB
- Audio output impedance : Ext. SP 4 Ω (4 to 8 Ω)
- Side tone 600 Ω

Accessories

- Advanced Microphone
- Microphone hanger and screw set
- Installation/Operations Manual
- DC power cable(3m(10ft))with 10A Fuse
- Mounting bracket kit

Additional Features.

1. **Transmission Inhibit.** The function “TX Inhibit” is required to inhibit the user transmission when the function is enabled by Programming Software.
2. Channel spacing of 25kHz or 8.33kHz
3. Number of memory channels 99
4. Emergency channel (121.500MHz)
5. Microphone should have the following in built
 - TX lamp
 - Busy lamp
 - VOL control
 - Squelch off
6. The External and Internal Speaker can be ON/OFF by manually at VFO or Memory Channel mode.
7. Priority Channel Scan
8. Usable in 760 Channel VFO Scan
9. Front Panel Control of External Speaker

2. **SPECIFICATIONS** : **For HF Radio Transceiver (Ground Level – City to City communication system)**

Multi Mode Mobile Radio

Frequency Coverage :

RX: 30 kHz ~ 30.0000 MHz in 10 Hz Steps

TX: 1.600 ~ 30.0000 MHz

200 Memory Channels (arranged in five banks)**Alpha-Numeric Labeling of Memory Channels****Power Output:**

125 Watts (A1A, J2B, J3E @1.6000 ~ 3.9999 MHz)

100 Watts (A1A, J2B, J3E @4.0000 ~ 30.000 MHz)

31 Watts AM Carrier (A3E @1.6000 ~ 3.9999 MHz)

25 Watts AM Carrier (A3E @4.0000 ~ 30.000 MHz)

Selcall / Telcall Built-in

Selcall

Telcall

Message Call

Position Request Call

Position Send Call

(with GPS receiver connected)

Beacon Request Call

Dual Watch Operation**External Automatic Antenna Tuner,**

FC-30 (Coax) and FC-40 (Wire) Available

VOX**Noise Blanker****Dimmer Function****CW Side Tone Function****CW Semi-break-in****PC Programmable****MIL-STD 810D / E / F**

Sd/- Director
Directorate of Aviation.
