

Delivery date is to be stated as part of the Tender submission. Full technical documentation, including detailed servicing instructions, is to be supplied. If such documentation is an extra cost, this must be clearly stated. Quantity reqd - 6

SPECIFICATIONS FOR SINGLE SIDE BAND TRANSCEIVER

Power: To operate from 11 V to 15 V dc with reverse polarity protection, ~~from~~

Construction: Fully solid state.

General: The transceivers must be capable of operation on 6 separate channels using crystal locked circuitry. They must have a frequency coverage of 2 to 10 MHz.

Approximate dimensions are: Width 310 mm  
Height 120 mm  
Depth 350 mm.

Weight should not exceed 6 kg.

It must be possible to operate sets into a nominal 50 ohm load with no internal adjustment required. Tenderers should state how this will be achieved.

The sets must comply with Australian Post Office Specification RB 209 and the approval must be quoted.

Output must be at least 100 W peak envelope power on single side band transmission.

All harmonic emission from the transmitter must be restricted to -40 dB relative to PEP. The unused side band must be suppressed to at least -40 dB below the mean output power. Spurious emission must be at least -40 dB below mean output power.

The microphone should be of the rocking armature type with a push-to-talk switch fitted to the case.

Frequency stability must be within ±50 Hz from 5°C to 55°C and ±60 Hz from 0°C to 60°C with ±10% input voltage variation.

Receiver sensitivity must be such that an aerial signal of 0.5 µV from a 50 ohm source will produce a (signal + noise) to noise ratio of 10 dB.

Bandwidth should be 300 Hz to 2 800 Hz ±3 dB.

The radio frequency input/output impedance of the transceivers must be nominally 50 ohms.

Sets must be provided fully operational. They must be fitted with the following frequencies:

Carrier frequency: 7365 kHz	Upper side band: 7366.5 kHz
6890	6891.5
4010	4011.5
3716	3717.5
2140	2141.5
2020	2021.5

Sets must be fitted with a voice operated mute and impost noise limiter. Controls required - must enable/disable; noise limiter enable/disable; front panel switches. They must be supplied with a microphone, battery leads and full operating instructions. They should be fitted with R.F.D.S. emergency call button system.

The precise warranty on the equipment must be stated. (X)