

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. GOODS

E2.1 The Contractor shall supply portable two-way radios and accessories in accordance with the requirements hereinafter specified.

E2.2 Item No. 1 – Portable two-way radio shall be Tait model 5030 or equivalent.

- (a) This radio shall transmit and receive in the 410 – 420 MHz band
- (b) The radio shall operate with 12.5 kHz channel spacing
- (c) The radio shall operate in both a conventional mode and with the MPT1327 signalling standards.
- (d) The radio shall have a minimum of 10 pre-programmable memory channels.
- (e) Channel indication shall be provided by the position of a rotary knob.
- (f) The radio shall operate within the manufactures specifications from –30 deg C to +60 degree C.
- (g) The radio shall be approved for use in Canada.
- (h) The radio shall have a maximum power output of at least 3 watts.
- (i) The radio shall be capable of operating with a removable speaker/microphone assembly.

E2.3 Item No. 2 - Antenna shall be Tait model TOPA-AN-202 or equivalent.

- (a) The antenna should be a whip antenna with a black protective coating.
- (b) The antenna shall mate securely with Item No. 1.
- (c) The antenna shall operate over the 410 – 420 MHz band

E2.4 Item No. 3 – Speaker Microphone shall be Tait model TOP-AA-003 or equivalent

- (a) Shall operate within manufacturers specifications from –30 deg C to +60 degree C.
- (b) Shall have a coiled cord.

E2.5 Item No. 4 - Battery shall be Tait model TOPB500 or equivalent.

- (a) Battery shall be capable of operating the radio for a minimum of 10 hours using a 5-5-90 duty cycle (5% transmit, 5% receive, 90% quiet standby)
- (b) Battery shall have a NiMh chemistry.

E2.6 Item No. 5 – Single unit Charger shall be Tait model TOPA-CH-200 or equivalent.

- (a) Charger shall be capable of rapid charging the battery
- (b) The charger shall automatically switch to a trickle charge mode after the battery reaches capacity.
- (c) The charger shall be supplied with any necessary power adapter required to operate from 110 VAC, 60 Hz mains power.
- (d) The charger or the power adapter should be CSA certified for use in Canada.

- E2.7 Item No. 6 – Multi Unit Charger shall be Tait model TOPA-CH-300 or equivalent.
- (a) Charger shall be capable of rapid charging 6 batteries simultaneously
 - (b) The charger shall automatically switch to a trickle charge mode after a battery reaches capacity.
 - (c) The charger shall be supplied with any necessary power adapter required to operate from 110 VAC, 60 Hz mains power.
 - (d) The charger or the power adapter should be CSA certified for use in Canada.
- E2.8 Item No. 7 – Carry Case shall be Tait model TOPA-CA-102 or equivalent
- (a) The case shall allow the radio to be operated without being removed from the case.
 - (b) The case should be equipped with an integrated “D” clip or be capable of having a “D” clip attached.
- E2.9 Item No. 8 – Belt clip shall be Tait model TOPA-CA-104 or equivalent.
- (a) The belt clip shall be integrated with the radio in such a way as to allow the radio to be mounted to a belt loop. The industry standard “D” clip allows the radio to rotate.
- E2.10 Item No. 9 – Belt loop shall be Tait model TOPA-CA-103 or equivalent.
- (a) The belt loop shall be attachable to a standard equipment belt.
 - (b) The belt loop shall incorporate a standard “D” clip receptacle and mate with Item No. 8.
- E2.11 Item No. 10 – Service Kit shall be Tait model TOPA-SC-117G or equivalent
- (a) This kit shall include all necessary hardware, software and connectors necessary to perform bench level servicing of the portable radio.
 - (b) Bidder shall include an itemized list of the proposed kit’s contents and associated cost on the form B price list.
- E2.12 Item No. 11 – Programming Kit shall be Tait model TCN-PGMP-01G or equivalent
- (a) The kit shall include all necessary software and hardware required to connect the portable radio to a Personal computer (PC) to enable the City to program the portable radios.
- E2.13 Item No. 12– Extended warranty for item No. 1.
- (a) The bidder shall include the cost to increase the length of the standard included warranty to a total of five years.
 - (b) The City reserves the right not to purchase the extended warranty coverage.

E3. DELIVERY

- E3.1 Goods shall be delivered within thirty (30) Calendar Days of the award of Contract, f.o.b. destination, freight prepaid.
- E3.2 Goods shall be delivered between 8:30 a.m. and 4:30 p.m. on Business Days.