



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 175

SUPPLY AND DELIVERY OF TWO-WAY RADIO EQUIPMENT AND ACCESSORIES

TABLE OF CONTENTS

PART A - BID SUBMISSION

Form A: Bid	1
Form B: Prices	3

PART B - BIDDING PROCEDURES

B1. Project Title	1
B2. Submission Deadline	1
B3. Enquiries	1
B4. Addenda	1
B5. Substitutes	2
B6. Bid Submission	2
B7. Bid	3
B8. Prices	4
B9. Qualification	4
B10. Opening of Bids and Release of Information	5
B11. Irrevocable Bid	5
B12. Withdrawal of Bids	5
B13. Evaluation of Bids	6
B14. Award of Contract	7

PART C - GENERAL CONDITIONS

C1. General Conditions	1
------------------------	---

PART D - SUPPLEMENTAL CONDITIONS

General

D1. General Conditions	1
D2. Scope of Work	1
D3. Definitions	1
D4. Contract Administrator	2
D5. Notices	2

Submissions

D6. Authority to Carry on Business	3
------------------------------------	---

Control of Work

D7. Commencement	3
D8. Orders	3
D9. Records	3

Measurement and Payment

D10. Invoices	3
D11. Payment	4

Warranty

D12. Warranty	4
---------------	---

PART E - SPECIFICATIONS

General

E1. General	1
E2. Goods	1
E3. Delivery	9

PART B - BIDDING PROCEDURES

B1. PROJECT TITLE

B1.1 SUPPLY AND DELIVERY OF TWO-WAY RADIO EQUIPMENT AND ACCESSORIES

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, February 14, 2006.

B2.2 Bid Submissions determined by the Manager of Materials to have been received later than the Submission Deadline will not be accepted and will be returned upon request.

B2.3 The Contract Administrator or the Manager of Materials may extend the Submission Deadline by issuing an addendum at any time prior to the time and date specified in B2.1.

B3. ENQUIRIES

B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B3.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B3.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B3.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

B3.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

B4. ADDENDA

B4.1 The Contract Administrator may, at any time prior to the Submission deadline, issue addenda correcting errors, discrepancies or omissions in the Bid Opportunity, or clarifying the meaning or intent of any provision therein.

B4.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.

B4.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B4.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Branch internet site for addenda shortly before submitting his Bid.

B4.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B5. SUBSTITUTES

- B5.1 The Work is based on the materials, equipment, methods and products specified in the Bid Opportunity.
- B5.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B5.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least seven (7) Business Days prior to the Submission Deadline.
- B5.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the material, equipment, method or product as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the Contract.
- B5.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B5.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B5.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B5.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B5.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative shall base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B13.
- B5.9 No later claim by the Contractor for an addition to the price(s) because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B6. BID SUBMISSION

- B6.1 The Bid Submission consists of the following components:

- (a) Form A: Bid;
- (b) Form B: Prices;

- B6.2 All components of the Bid Submission shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely in ink, to constitute a responsive Bid.
- B6.3 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B6.4 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:
- The City of Winnipeg
Corporate Finance Department
Materials Management Branch
185 King Street, Main Floor
Winnipeg MB R3B 1J1
- B6.4.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.
- B6.5 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to (204) 949-1178
- B6.5.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B6.6 Bid Submissions submitted by internet electronic mail (e-mail) will not be accepted.

B7. BID

- B7.1 The Bidder shall complete Form A: Bid, making all required entries.
- B7.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B7.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B7.2.
- B7.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B7.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, it shall be signed by the Bidder;

- (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
- (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
- (d) if the Bidder is carrying on business under a name other than his own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

B7.4.1 The name and official capacity of all individuals signing Form A: Bid shall be printed below such signatures.

B7.4.2 All signatures shall be original.

B7.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid Submission and the Contract, when awarded, shall be both joint and several.

B8. PRICES

B8.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B8.1.1 Prices on Form B: Prices shall include:

- (a) duty;
- (b) freight and cartage;
- (c) Provincial and Federal taxes [except the Goods and Services Tax (GST) and Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable] and all charges governmental or otherwise paid;
- (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.

B8.1.2 Prices on Form B: Prices shall not include the Manitoba Association for Resource Recovery Corporation (MARRC) Environmental Handling Charge (EHC) which shall be extra where applicable.

B8.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.

B8.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B9. QUALIFICATION

B9.1 The Bidder shall:

- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business;
- (b) be responsible and not be suspended, debarred or in default of any obligation to the City;
- (c) be financially capable of carrying out the terms of the Contract;
- (d) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract;

- (e) have successfully carried out work, similar in nature, scope and value to the Work;
- (f) employ only Subcontractors who:
 - (i) are responsible and not suspended, debarred or in default of any obligation to the City (a list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>); and
 - (ii) have successfully carried out work similar in nature, scope and value to the portion of the Work proposed to be subcontracted to them, and are fully capable of performing the Work required to be done in accordance with the terms of the Contract;

B9.2 The Bidder shall be prepared to submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B9.3 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B10. OPENING OF BIDS AND RELEASE OF INFORMATION

B10.1 Bid Submissions will not be opened publicly.

B10.2 Within two (2) Business Days following the Submission Deadline, the names of the Bidders and their Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B10.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

B10.4 The Bidder is advised that any information contained in any Bid Submission may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

B11. IRREVOCABLE BID

B11.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B11.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 of Form A: Bid.

B12. WITHDRAWAL OF BIDS

B12.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

B12.1.1 Notwithstanding GC.7.05(2), the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.

- B12.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B12.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials shall:
- (a) retain the Bid Submission until after the Submission Deadline has elapsed;
 - (b) open the Bid Submission to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B12.1.3(b), declare the Bid withdrawn.
- B12.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B11.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B13. EVALUATION OF BIDS

- B13.1 Award of the Contract shall be based on the following bid evaluation criteria:
- (a) compliance by the Bidder with the requirements of the Bid Opportunity (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B9 (pass/fail);
 - (c) Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B5.
- B13.2 Further to B13.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements if the interests of the City so require.
- B13.3 Further to B13.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid Submission or in other information required to be submitted, that he is responsible and qualified.
- B13.4 Further to B13.1(c), the Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B13.5 This Contract may be awarded as a whole (Alternative 1) or separately by item (Alternative 2) as identified on Form B: Prices.
- B13.5.1 Notwithstanding B8.1, the Bidder may, but is not required to, bid on both alternatives, or on any one or more items in Alternative 2.
- B13.5.2 The City shall not be obligated to award any item to the responsible Bidder submitting the lowest evaluated responsive Bid for that item and shall have the right to choose the alternative which is in its best interests. If the Bidder has not bid on both alternatives or on all items in Alternative 2, he shall have no claim against the City if his partial Bid is rejected in favour of an award of the Contract on the basis of an alternative or item upon which he has not bid.

B14. AWARD OF CONTRACT

- B14.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B14.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B14.2.1 Without limiting the generality of B14.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
 - (b) the prices are materially in excess of the prices received for similar work in the past;
 - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
 - (d) only one Bid is received; or
 - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B14.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid.
- B14.4 Notwithstanding GC.3.01 and GC.3.02, the City will issue a purchase order to the successful Bidder in lieu of the execution of a Contract.
- B14.5 The Contract Documents, as defined in GC.1.01(7), in their entirety shall be deemed to be incorporated in and to form a part of the purchase order notwithstanding that they are not necessarily attached to or accompany said purchase order.

PART C - GENERAL CONDITIONS

C1. GENERAL CONDITIONS

C1.1 The *General Conditions for the Supply and Delivery of Goods* (Form 21: 88 03) are applicable to the Work of the Contract.

C1.1.1 The *General Conditions for the Supply and Delivery of Goods* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Branch internet site at <http://www.winnipeg.ca/matmgt>.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

- D1.1 In addition to the *General Conditions for the Supply and Delivery of Goods*, these Supplemental Conditions are applicable to the Work of the Contract.
- D1.2 The General Conditions are amended by striking out "The City of Winnipeg Act" wherever it appears in the General Conditions and substituting "The City of Winnipeg Charter".
- D1.3 The General Conditions are amended by striking out "Board of Commissioners" or "Commissioner" wherever it appears in the General Conditions and substituting the "Chief Administrative Officer".
- D1.4 The General Conditions are amended by striking out "Tender Package" wherever it appears in the General Conditions and substituting "Bid Opportunity".
- D1.5 The General Conditions are amended by striking out "Tender Submission" wherever it appears in the General Conditions and substituting "Bid Submission".
- D1.6 The General Conditions are amended by striking out "Bidding Instructions" wherever it appears in the General Conditions and substituting "Bidding Procedures".

D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of the supply and delivery of two-way radio equipment and accessories for the period of date of Award of Contract to February 28, 2007.
- D2.2 All equipment will be delivered, FOB destination to the Communications Systems Branch of the City of Winnipeg, located at 421 Osborne Street, Winnipeg, MB.
- D2.3 The Work shall be done on an "**as required**" basis during the term of the Contract.
- D2.3.1 The type and quantity of Work to be performed under this Contract shall be as authorized from time to time by the Contract Administrator and/or Users.
- D2.3.2 Subject to GC.4.08, the City shall have no obligation under the Contract to purchase any quantity of any item in excess of its actual operational requirements.

D3. DEFINITIONS

- D3.1 When used in this Bid Opportunity:
- (a) "**Business Day**" means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
 - (b) "**Submission Deadline**" and "**Time and Date Set for the Final Receipt of Bids**" mean the time and date set out in the Bidding Procedures for final receipt of Bids;
 - (c) "**User**" means a person, department or other administrative unit of the City authorized by the Contract Administrator to order Work under this Contract;
 - (d) "**MIL-STD 810F**" – A United States Military Standard that defines a series of guidelines and test methods for determining the effects of natural and induced environments on equipment used in military or commercial applications. See www.dtc.army.mil/navigator for more details.

- (e) **"MPT 1327"** – is a family of standards which defines a Trunking system for Private Mobile Radio.
- (f) **"MAP 27"** – is defined as Mobile Access Protocol for MPT1327 communications equipment.
- (g) **"CTCSS"** – (Continuous Tone Coded Squelch System) is a Two-Way Radio signalling method that uses transmitted sub-audible tones on the carrier frequency to unmute the receiving radio's speaker.
- (h) **"DTMF"** – Dual Tone, Multi Frequency is the method of Two-Way Radio signalling of coding digits as a combination of two audible tones
- (i) **"CSA"** – Canadian Standards Association -- the government agency in Canada that certifies electrical devices.
- (j) **"ULC"** – Underwriters' Laboratories of Canada is a safety testing and certification organization recognized by the Standards Council of Canada.

D4. CONTRACT ADMINISTRATOR

- D4.1 The Contract Administrator is:
- Scott Curell
Technologist III
Communications Systems Branch
421 Osborne St
Winnipeg, Manitoba
R3L 2A2
- Telephone No. (204) 986-2255
Facsimile No. (204) 986-2666

D5. NOTICES

- D5.1 GC.7.05 is hereby amended to delete reference to "registered mail" and to replace same with "ordinary mail".
- D5.2 GC.7.05 is further amended hereby to include delivery by facsimile transmission (fax) as an acceptable means of delivering notices, consents, approvals, statements, authorizations, documents or other communications required or permitted to be given under this Contract. Deliveries by fax will be deemed to have been received on the day of delivery, if a business day, or if not a business day, on the business day next following the day of delivery.
- D5.3 Further to GC.7.05, all notices, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.4, D5.5 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D4.1.
- D5.4 All notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following address or facsimile number:
- The City of Winnipeg
Chief Administrative Officer Secretariat
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174

- D5.5 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:

The City of Winnipeg
Corporate Services Department
Legal Services Division
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1
Facsimile No.: (204) 947-9155

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

- D6.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

CONTROL OF WORK

D7. COMMENCEMENT

- D7.1 The Contractor shall not commence any Work until he is in receipt of a purchase order authorizing the commencement of the Work.

D8. ORDERS

- D8.1 The Contractor shall provide a local Winnipeg telephone number or a toll-free telephone number at which orders for delivery may be placed.

D9. RECORDS

- D9.1 The Contractor shall keep detailed records of the goods supplied under the Contract.
- D9.2 The Contractor shall record, as a minimum, for each item listed on Form B: Prices:
- (a) User name(s) and addresses;
 - (b) order date(s);
 - (c) delivery date(s); and
 - (d) description and quantity of goods supplied.
- D9.3 The Contractor shall provide the Contract Administrator with a copy of the records for each quarter year within fifteen (15) Calendar Days of the end of that quarter.

MEASUREMENT AND PAYMENT

D10. INVOICES

- D10.1 Further to GC.9.01 and notwithstanding GC.9.03, the Contractor shall submit an invoice for each order delivered.

D10.2 Further to D5.3, the Contractor shall submit invoices to the locations designated at the time of ordering.

D10.3 Invoices must clearly indicate, as a minimum:

- (a) the City's order number;
- (b) date of delivery;
- (c) delivery address;
- (d) type and quantity of goods delivered;
- (e) the amount payable with GST and MRST shown as separate amounts; and
- (f) the Contractor's GST registration number.

D10.4 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D11. PAYMENT

D11.1 Further to GC.9.01 and GC.9.03, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.

WARRANTY

D12. WARRANTY

D12.1 Notwithstanding GC.10.01 and GC.10.02, the warranty period for each item of Work supplied shall begin on the date of successful delivery and shall expire one (1) year thereafter unless extended pursuant to D12.2, in which case it shall expire when provided for thereunder.

D12.2 If a defect or deficiency prevents the full and normal use or operation of the Work or any portion thereof, for purposes of calculating the warranty period, time shall be deemed to cease to elapse for the defective or deficient portion, and for any portion of the Work whose use or operation is prevented by such defect or deficiency, as of the date on which the defect or deficiency is observed or the use or operation is prevented and shall begin to run again when the defect or deficiency has been corrected or the Work may be used or operated to the satisfaction of the Contract Administrator.

D12.3 Notwithstanding GC.10.01, GC.10.02 and D12.2, if any law of Manitoba or of the jurisdiction in which the Work was manufactured requires, or if the manufacturer provides, a longer warranty period or a warranty which is more extensive in its nature, then the provisions of such law or manufacturer's warranty shall apply.

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. GOODS

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

E2.2 Item No. 1 - **Mobile two-way radio** shall be a **Tait Model TM8255-H5A00**, or equivalent substitute.

(a) The TM8255-H5A00 shall include:

- (i) TMAC40-0T Control Head.
- (ii) TMAA03-01 Mounting Kit.
- (iii) TMAA02-01 Standard Microphone.
- (iv) TMAB22-H500A MPT1327 Firmware.

E2.2.1 If a substitute is submitted, the substitute shall:

- (a) Meet or exceed all published specifications for the above Tait TM8255 mobile, specifically:
 - (i) DC Power requirements.
 - (ii) Radio Frequency performance (both receive and transmit).
 - (iii) Environmental test specifications as per MIL-STD 810F, specifically High Temperature, Low Temperature, Shock, Vibration, Dust and Rain.
- (b) Have compatibility with the City of Winnipeg's existing Taitnet T1541 system, including:
 - (i) Comply with MPT1327 signalling standards.
 - (ii) Comply with MAP27 Data transmission standards.
 - (iii) Operate in the 400-430 MHz frequency range.
 - (iv) Operate with Narrow Band functionality (12.5 kHz Bandwidth).
- (c) Must have a backlit LCD display indicating, at minimum:
 - (i) Caller Information.
 - (ii) Programmable Menu options.
 - (iii) Signal strength.
- (d) Include:
 - (i) One Hand-held Palm Microphone.
 - (ii) One Mounting Bracket and screws to hold the radio secure in the bracket.
 - (iii) One Power Cord complete with a fuse holder and the proper rated fuse.
- (e) Be capable of Conventional (non-MPT1343 trunked) operation, with:
 - (i) Programmable 12/20/25kHz channel spacing.
 - (ii) Sub audible CTCSS receive and transmit signalling.
- (f) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) System compatibility.
 - (ii) Build quality.

- (iii) Programming functionality.
- (iv) Sample shall include all radio programming requirements, including software, programming cables and any radio specific hardware.

E2.3 Item No. 2 – **Portable Two-way Radio** shall be a **Tait Model TOP-H2420-B0** or equivalent substitute.

- (a) The TOP-H2420-B0 shall include the radio only, without battery or accessories.

E2.3.1 If a substitute is submitted, the substitute shall:

- (b) Have compatibility with the City of Winnipeg's existing Taitnet T1541 system, including:
 - (i) Comply with MPT1327 signalling standards.
 - (ii) Operate in the 400-430 MHz frequency range.
 - (iii) Operate with Narrow Band functionality (12.5 kHz Bandwidth).
- (c) Meet or exceed all published specifications for the above Tait TOP-H2420-B0 portable, specifically:
 - (i) Radio Frequency performance (both receive and transmit).
 - (ii) Environmental test specifications as per MIL-STD 810F, specifically High Temperature, Low Temperature, Shock, Vibration, Dust and Rain.
- (d) Be capable of Conventional (non-MPT1343 trunked) channel operation, with:
 - (i) Programmable 12/20/25kHz channel spacing.
 - (ii) Sub audible CTCSS receive and transmit signalling.
- (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) System compatibility.
 - (ii) Build quality.
 - (iii) Programming functionality.
 - (iv) Sample shall include all radio programming requirements, including software, programming cables and any radio specific hardware.

E2.4 Item No. 3 - **Portable Two-way Radio** shall be a **Tait Model TOP-H2520-B0** or equivalent substitute.

- (a) The TOP-H2520-B0 shall include the radio only, without battery or accessories.

E2.4.1 If a substitute is submitted, the substitute shall:

- (a) Have compatibility with the City of Winnipeg's existing Taitnet T1541 system, including:
 - (i) Comply with MPT1327 signalling standards.
 - (ii) Operate in the 400-430 MHz frequency range.
 - (iii) Operate with Narrow Band functionality (12.5 kHz Bandwidth).
- (b) Must have an backlit LCD display indicating, at minimum:
 - (i) Caller ID.
 - (ii) Programmable Menu options.
 - (iii) Battery status.
 - (iv) Signal strength.
- (c) Meet or exceed all published specifications for the above Tait TOP-H2520-B0 portable, specifically:
 - (i) Radio Frequency performance (both receive and transmit).
 - (ii) Environmental test specifications as per MIL-STD 810F, specifically High Temperature, Low Temperature, Shock, Vibration, Dust and Rain.

- (d) Be capable of Conventional (non-MPT1343 trunked) channel operation, with:
 - (i) Programmable 12/20/25kHz channel spacing.
 - (ii) Sub audible CTCSS receive and transmit signalling.
- (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) System compatibility.
 - (ii) Build quality.
 - (iii) Programming functionality.
 - (iv) Sample shall include all radio programming requirements, including software, programming cables and any radio specific hardware.

E2.5 Item No. 4 - **Portable Two-way Radio** shall be a **Tait Model TOP-H2620-B0** or equivalent substitute.

- (a) The TOP-H2620-B0 shall include the radio only, without battery or accessories.

E2.5.1 If a substitute is submitted, the substitute shall:

- (a) Have compatibility with the City of Winnipeg's existing Taitnet T1541 system, including:
 - (i) Comply with MPT1327 signalling standards.
 - (ii) Operate in the 400-430 MHz frequency range.
 - (iii) Operate with Narrow Band functionality (12.5 kHz Bandwidth).
- (b) Must have an backlit LCD display indicating, at minimum:
 - (i) Caller ID.
 - (ii) Programmable Menu options.
 - (iii) Battery status.
 - (iv) Signal strength.
- (c) Must have a full 4 X 3 keypad to allow for:
 - (i) MPT1327 Individual Signalling.
 - (ii) Telephone Interconnect Signalling.
 - (iii) DTMF Encoding.
- (d) Meet or exceed all published specifications for the above Tait TOP-H2620-B0 portable, specifically:
 - (i) Radio Frequency performance (both receive and transmit).
 - (ii) Environmental test specifications as per MIL-STD 810F, specifically High Temperature, Low Temperature, Shock, Vibration, Dust and Rain.
- (e) Be capable of Conventional (non-MPT1343 trunked) channel operation, with:
 - (i) Programmable 12/20/25kHz channel spacing.
 - (ii) Sub audible CTCSS receive and transmit signalling.
- (f) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) System compatibility
 - (ii) Build quality
 - (iii) Programming functionality
 - (iv) Sample shall include all radio programming requirements, including software, programming cables and any radio specific hardware.

E2.6 Item No. 5 – **Bracket, Secure Locking** for mobile radio, item E2.2, shall be a **Tait Model TMAA03-02**, or equivalent substitute.

- (a) If a substitute Mobile Radio is submitted for item E2.2, then item E2.6 shall be a Key-Locking Bracket suitable for mounting the substitute mobile radio into a pick-up truck.
- E2.7 Item No. 6 – **Microphone, Rugged Keypad** for mobile radio, item E2.2, shall be a **Tait Model TMAA02-08**, or equivalent substitute.
- (a) If a substitute is submitted for item E2.2, then item E2.7 shall be a keypad microphone which will give the substitute mobile radio the following functionality:
- (i) DTMF signalling.
 - (ii) Remote operation of the radio's front menu buttons.
- E2.8 Item No. 7 – **Speaker, Remote** for mobile radio, item E2.2, shall be a **Tait Model TMAA10-03**, or equivalent substitute.
- (a) If a substitute is submitted, this item shall:
- (i) The audio power rating shall be rated equal to, or higher than, item E2.2's Audio output power.
 - (ii) Include a mounting bracket and screws to secure the speaker to the bracket.
 - (iii) Have the connectorization appropriate for the external speaker for Item E2.2.
 - (iv) Not exceed 12cm in any one dimension.
- E2.9 Item No. 8 – **Remote Head Mounting Kit** for mobile radio, item E2.2, shall be a **Tait Model TMAA03-05**, or:
- (a) If a substitute is submitted for Item E2.2, then this item shall be a Kit to remotely mount the substitute mobile radio's Control Head (user interface):
- (i) Up to 6 feet from the main radio body.
 - (ii) Shall include all mounting hardware, including bracket, cables and screws to secure the head to the bracket.
 - (iii) Shall allow the remote head to operate with all the electrical functionality of the non-remote head.
- E2.10 Item No. 9 – **Power Supply, Desk mount** for mobile radio, item E2.2, shall be a **Tait Model TMAA12-22**, or equivalent substitute.
- (a) If a substitute is submitted, this item shall:
- (i) Provide 12 to 14 Volts DC output with a continuous 10 Ampere load.
 - (ii) Accept an input of 110 to 125 Volts AC through a North American style power cord.
 - (iii) Have a CSA or ULC rating.
- E2.11 Item No. 10 – **Mount for Mobile Radio (Item E2.2) to Power Supply (Item E2.10)** shall be a **Tait Model TMAA03-09**, or equivalent substitute.
- (a) If a substitute is submitted for Item E2.2, then this item shall be a Mounting Bracket suitable for mounting the substitute mobile radio on the top of the Desk Mount Power Supply, Item E2.10. This item shall:
- (i) Include all hardware necessary for securely mounting the radio.
 - (ii) Not compromise in any way the Power Supply (Item E2.10) vent openings or operation.
- E2.12 Item No. 11 – **Microphone, Desk-type** for mobile radio, item E2.2, shall be a **Tait Model TMA10-01**, or equivalent substitute.
- E2.12.1 If a substitute is submitted, the substitute shall:
- (a) Be electrically compatible with the mobile radio (Item E2.2), above

- (b) Be equipped with a Push to Talk switch
- (c) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of electrical performance.

E2.13 Item No. 12 – **Vehicular Car kit for Tait Portables for items E2.3 and E2.4 and E2.5** shall be a **Tait Model TOPA-VK-011A**, or:

- (a) If a substitute is submitted for item E2.3 and E2.4 and E2.5, then this item shall be a Kit that shall:
 - (i) Include an external speaker, microphone and mounting bracket suitable for dash installation.
 - (ii) Allow the Portable Radio to be securely locked into the bracket with a key lock.
 - (iii) Allow the Portable's Battery to be charged, both at a rapid and trickle rate.
 - (iv) Allow the Portable Radio to use the External Microphone for transmitting.
 - (v) Allow the Portable Radio to use the External Speaker for Receiving.
 - (vi) Allow for an external Antenna Connection, that the Portable Radio will automatically be switched to, when locked into the Cradle.
 - (vii) Operate on an input voltage of 11.5 to 14.5 Volts DC.

E2.14 Item No. 13 – **Antenna, Stubby** for Portable Radio, shall be a **Tait Model TOPA-AN-102**, or equivalent substitute.

E2.14.1 If a substitute is submitted, the substitute shall:

- (a) Be equipped with an antenna connector compatible with items E2.3 and E2.4 and E2.5.
- (b) Be rated for operation in the frequency range of 410 to 420 MHz.
- (c) Not exceed 4" in length.
- (d) Have a flexible, black outer jacket.
- (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of electrical performance.

E2.15 Item No. 14 – **Antenna, Slim** for Portable Radio, shall be a **Tait Model TOPA-AN-212**, or equivalent substitute.

E2.15.1 If a substitute is submitted, the substitute shall:

- (a) Be equipped with an antenna connector compatible with the Portable radio, items E2.3 and E2.4 and E2.5.
- (b) Be rated for operation in the frequency range of 410 to 420 MHz.
- (c) Not exceed 7" in length.
- (d) Have a flexible, black outer jacket.
- (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of electrical performance.

E2.16 Item No. 15 – **Speaker Microphone – Standard Duty** for Portable Radio shall be a **Tait Model TOPA-AA-001**, or equivalent substitute.

- E2.16.1 If a substitute is submitted, the substitute shall:
- (a) Have compatible connectorization with the Portable Radios, items E2.3 and E2.4 and E2.5.
 - (b) Be electrically compatible with the Portable Radios, items: E2.3 and E2.4 and E2.5.
 - (c) Be temperature rated for -10 to -60 C functionality.
 - (d) Have a minimum of 2 programmable function buttons, functionally compatible with the Portable Radios, items E2.3 and E2.4 and E2.5.
 - (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality
 - (ii) Confirmation of electrical performance
- E2.17 Item No. 16 – **Speaker Microphone – Heavy Duty** for Portable Radio shall be a **Tait Model TOPA-AA-003**, or equivalent substitute.
- E2.17.1 If a substitute is submitted, the substitute shall:
- (a) Have compatible connectorization and connectivity with the Portable Radios, item E2.3 and E2.4 and E2.5.
 - (b) Be electrically compatible with the Portable Radios, item E2.3 and E2.4 and E2.5.
 - (c) Be temperature rated for -30 to -60 C functionality.
 - (d) Have a minimum of 1 programmable function button, functionally compatible with the Portable Radios, Item E2.3, E2.4 or E2.5
 - (e) Meet or exceed the Mil-Std 810E standard for environmental resistance
 - (f) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality
 - (ii) Confirmation of electrical performance
- E2.18 Item No. 17 – **Battery Charger, Single Unit** for Portable Radio Batteries, shall be a **Tait Model TOPA-CH-200**, or equivalent substitute.
- E2.18.1 If a substitute is submitted, the substitute shall:
- (a) Be electrically compatible with Portable Battery, Item E2.20 or E2.21.
 - (b) Be powered from a 110 to 120 Volt AC source.
 - (c) Be able to Rapid Charge the Portable Battery, Item E2.20 or E2.21, within 2 hours.
 - (d) Be able to supply a Trickle Charge upon the Rapid Charge cycle completion, to maintain a charge on the battery.
 - (e) Be able to charge the Portable Battery, Item E2.20 or E2.21, while the battery is mounted on the Portable Radio (Item E2.3 and E2.4 and E2.5).
 - (f) Be able to optionally discharge the Portable Battery, Item E2.20 or E2.21, to 1.0 Volts DC per cell, then recharge to the battery's maximum capacity, while the Portable Radio (Item E2.3 and E2.4 and E2.5) is still attached to the battery, (Item E2.20 or E2.21).
 - (g) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality
 - (ii) Confirmation of electrical performance
- E2.19 Item No. 18 – **Battery Charger, Multiple Unit** for Portable Radio Batteries, shall be **Tait Model TOPA-CH-300**, or equivalent substitute.

- (a) Shall include the a **Tait Model T952-340 North American Power Cord**

E2.19.1 If a substitute is submitted, the substitute shall:

- (a) Be able to charge 5 or more Portable Batteries (Item E2.20 or E2.21) simultaneously.
- (b) Be electrically compatible with Portable Battery, Item E2.20 or E2.21.
- (c) Be powered from a 110 to 120 Volt AC source.
- (d) Be able to Rapid Charge the Portable Batteries (Item E2.20 or E2.21) from 1.0 Volt per cell to full charge within 2 hours.
- (e) Be able to supply a Trickle Charge upon the Rapid Charge Cycle completion, to maintain a charge of 100% on the Batteries.
- (f) Be able to charge the Portable Battery, Item E2.20 or E2.21, while the battery is mounted on the Portable Radio (Item E2.3 and E2.4 and E2.5).
- (g) Be able to optionally discharge the Portable Battery, Item E2.20 or E2.21, to 1.0 Volts DC per cell, then recharge to the battery's maximum capacity, while the Portable Radio (Item E2.3 and E2.4 and E2.5) is still attached to the battery, (Item E2.20 or E2.21).
- (h) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of electrical performance.

E2.20 Item No. 19 – **Battery, Rechargeable (High Capacity)** for Portable Radio, shall be a **Tait Model TOPB500**, or equivalent substitute.

E2.20.1 If a substitute is submitted, the substitute shall:

- (a) Be physically compatible with the Portable Radios, Item E2.3 and E2.4 and E2.5.
- (b) Be electrically compatible with the Portable Radios, Item E2.3 and E2.4 and E2.5.
- (c) Contain Nickel Metal Hydride Cells.
- (d) Be rated at 2000mAh or better.
- (e) Be electrically and functionally compatible with Items E2.18 and E2.19, the Single and Multiple Battery Charger pockets, including the ability to be discharged by the charger while the battery is mounted on the Portable Radio.
- (f) Have the capability of a plastic belt clip attachment, such as Item E2.26 (below).
- (g) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of electrical performance.

E2.21 Item No. 20 – **Battery, Rechargeable (Slim Pack)** for Portable Radio, shall be a **Tait Model TOPB800**, or equivalent substitute.

E2.21.1 If a substitute is submitted, the substitute shall:

- (a) Be physically compatible with the Portable Radios, Item E2.3 and E2.4 and E2.5.
- (b) Be electrically compatible with the Portable Radios, Item E2.3 and E2.4 and E2.5.
- (c) Contain Nickel Metal Hydride Cells.
- (d) Be rated at 2300mAh or better.
- (e) Be electrically and functionally compatible with Items E2.18 and E2.19, (the Single and Multiple Battery Charger pockets), including the ability to be discharged by the chargers while the battery is mounted on the Portable Radio.

- (f) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of electrical performance.

E2.22 Item No. 21 – **Carry Case, Leather (with keypad access)** for Portable Radio, shall be a **Tait Model TOPA-CA-101**, or equivalent substitute.

E2.22.1 If a substitute is submitted, the substitute shall:

- (a) Be physically compatible with the Portable Radio Item E2.4 and E2.5, providing a secure hold on the radio by elastic cord or strap.
- (b) Be equipped with a swivel “D” ring mount and Belt Loop.
- (c) Be equipped with an opening in the front of the case to operate the radio keypad. This opening shall:
 - (i) Provide adequate clearance to allow unimpeded operation of all front panel buttons.
 - (ii) Not cause an accidental key press when case is squeezed.
- (d) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of physical compatibility.

E2.23 Item No. 22 – **Carry Case, Leather (with solid front)** for Portable Radio, shall be a **Tait Model TOPA-CA-102**, or equivalent substitute.

E2.23.1 If a substitute is submitted, the substitute shall:

- (a) Be physically compatible with the Portable Radio Item E2.3, providing a secure hold on the radio by elastic cord or strap.
- (b) Be equipped with a swivel “D” ring mount and Belt Loop.
- (c) Have a solid front panel to protect the front of the portable radio.
- (d) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of physical compatibility.

E2.24 Item No. 23 – **Belt Loop, Leather;** for “D” Ring Attachment, Item E2.25 below, shall be a **Tait Model TOPA-CA-103**, or equivalent substitute.

E2.24.1 If a substitute is submitted, the substitute shall:

- (a) Consist of a Leather Belt Loop Attachment, capable of passing a 3” wide Trouser Belt.
- (b) Be able to fasten around the trouser belt without having to thread the belt through the loop.
- (c) Be fully physically compatible with the “D” attachment, item E2.25, below.
- (d) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of physical compatibility.

E2.25 Item No. 24 – **“D” Ring Attachment** for Portable Radio shall be a **Tait Model TOPA-CA-104**, or equivalent substitute.

E2.25.1 If an equivalent substitute is submitted, the substitute shall:

- (a) Be fully physically compatible with the accessory connector of the Portable Radio, Item E2.3 and E2.4 and E2.5.
- (b) Be fully physically compatible with the "D" ring holder, item E2.24, above.
- (c) Must not interfere electrically with the Portable Radio it is attached to.
- (d) Must provide a secure method of fastening the "D" ring to the Portable Radio.
- (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of physical compatibility.

E2.26 Item No. 25 – **Belt Clip for Portable Radio** shall be a **Tait Model TOPA-CA-005**, or equivalent substitute.

E2.26.1 If a substitute is submitted, the substitute shall:

- (b) Be physically able to latch onto the Portable battery, item E2.20 and E2.21 (above).
- (c) Have a physical length exceeding 30mm.
- (d) Of equal or better physical strength to the Tait model TOPA-CA-005.
- (e) Be provided as a sample, within 2 weeks of request, for evaluation by the City of Winnipeg Radio Shop for:
 - (i) Build quality.
 - (ii) Confirmation of physical compatibility.

E3. DELIVERY

E3.1 Goods shall be delivered on an "as required" basis during the term of the Contract, f.o.b. destination, freight prepaid, to the Communications Systems Branch, 421 Osborne Street, Winnipeg, Manitoba, R3L 2A2.

E3.1.1 Goods shall be delivered within **20** Business Days of the placing of an order, except where otherwise agreed at the time of ordering.

E3.2 Goods shall be delivered between 8:00 a.m. and 4:00 p.m. on Business Days.

E3.3 The Contractor shall off-load goods as directed at the delivery location.