



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 194-2007

SUPPLY AND DELIVERY OF ALUMINUM GANTRY CRANES

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SUPPLY AND DELIVERY OF ALUMINUM GANTRY CRANES

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, April 3, 2007.

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 regularly and shortly before the Submission Deadline, as may be amended by addendum.

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; and
 - (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; and
 - (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; and
 - (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; and
- (d) profit and all compensation which shall be due to the Contractor for the Work and all risks and contingencies connected therewith.

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; and
- (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.
- (g) have a written workplace safety and health program in accordance with The Workplace Safety and Health Act (Manitoba)

- 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 After 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) Total Bid Price; and
- (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 This Contract will be awarded as a whole.

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.

B14.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.

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/matmgf>.

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 supply and delivery of type I and type II aluminum gantry cranes without chain hoist, and two (2) different type of manual chain hoist to be used on a type 1 crane.

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; and
 - (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.
- D3.2 Notwithstanding GC.1.01, when used in this Bid Opportunity:
- (a) "**ANSI**" means the American National Standards Institute that complies with the latest edition of standards including amendments and supplements in effect on the date of issue of this Bid Opportunity shall apply to the Work; and
 - (b) "**OSHA**" means the Occupational Safety and Health Administration that complies with the latest edition of standards including amendments and supplements in effect on the date of issue of this Bid Opportunity shall apply to the Work.

D4. CONTRACT ADMINISTRATOR

- D4.1 The Contract Administrator is:
- Terry Holding
Project Manager
1500 Plessis Road
Winnipeg, MB R2C 5G6
- Telephone No.: (204) 986-4643
Facsimile No.: (204) 224-0032

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 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.

SCHEDULE 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.
- D7.2 The Contractor shall not commence any Work on the Site until:
(a) the Contract Administrator has confirmed receipt and approval of:
(i) evidence that the Contractor is 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.

MEASUREMENT AND PAYMENT

D8. PAYMENT SCHEDULE

- D8.1 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.
- D8.2 Further to GC.9.01, and at the option of the City, effective January 01, 2007, payment to the Contractor shall be made by direct deposit to the Contractor's banking institution.

WARRANTY

D9. WARRANTY

- D9.1 Further to GC.10.01, 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.
- D9.2 Notwithstanding GC.10.01, GC.10.02 and D9.1, 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 and deliver aluminum gantry cranes with **NO** manual chain hoist in accordance with the requirements hereinafter specified.

E2.2 Item No. 1 – type I aluminum gantry crane complete without a manual chain hoist.

E2.3 Item No. 2 - type II aluminum gantry crane complete without a manual chain hoist.

E2.4 Any material or components not herein specifically mentioned or included, but may be required and complete, and place the equipment in successful operation, shall be furnished by the Contractor as though specifically mentioned in this Bid Opportunity document. The Contractor shall supply the equipment and all components and all features which are normally considered to be standard on that equipment, unless specifically excluded.

E3. GANTRY CRANE TYPE I

E3.1 The Contract shall supply a gantry crane with cantilever capability shall be portable and adjustable to the following specifications:

- (a) lightweight, corrosion-resistant, all aluminum alloy construction, with anodized powder coated finish;
- (b) minimum 1000 Kg (2,200 lb.) lifting capacity between support legs, 410 kg (900 lbs) on cantilevered beam;
- (c) maximum out-to-out on wheels 2.100 metres (84");
- (d) adjustable support leg heights from minimum 2.050 metres (82") to maximum 4.200 metres (168") maximum under lifting ring;
- (e) 2.700 metres (108") long extruded hollow aluminum alloy box beam, with holes spaced appropriately to allow 0.914 metres (36") cantilever, trolley stop;
- (f) two (2) locking surround beam trolleys with friction brake and lifting ring for chain hoist (one trolley between hoist beam support legs and one exclusively for use on the cantilevered section of the hoist beam);
- (g) total assembled weight shall be less than 102 Kg (225 lb.) not including cantilever weights;
- (h) the gantry crane shall be supplied with locking casters to eliminate spin and roll;
- (i) fittings - provide all fittings, include all structural aluminum hangers, braces and all connection hardware. Provide adequately sized fabricated fittings for the indicated loads and factors of safety.
- (j) cantilever weights shall be specifically designed for the gantry crane and shall be installed in cantilever weight pockets connected to the support legs. Weights shall not weigh more than 23 kg (50 lbs) each;
- (k) bolts, nuts and clamps;
- (l) provide all bolts and nuts, grade L-9;
- (m) gantry crane shall be factory tested before shipping. The Manufacturer and Contract shall ensure the **Test Certificate** shall be provided; and

- (n) provide all required safety markings including maximum lifting capacity shall be indicated on each side of the main lifting beam and cantilever.

E3.2 The Manufacturer shall provide an additional one (1) year warranty on all gantry crane components against defects in workmanship and materials from the date of receipt over and above the warranty specified elsewhere for a total warranty period of two (2) years). All components shall be fully tested prior to shipping.

E3.3 Manual Chain Hoist for use on Type 1

E3.3.1 Type I Manual Chain Hoist shall conform to the following specifications:

- (a) the manual chain hoist shall be manufactured from stamped steel, compact and lightweight design, compact gear housing, low headroom unit;
- (b) minimum lifting capacity - 454 Kg (1000 lbs);
- (c) lubricated bearings and bushings, heat treated spur gearing for efficient operation with minimal effort;
- (d) mechanical load break for precise load holding capability;
- (e) 360° Swivel hooks with safety latches;
- (f) optional zinc plated chain;
- (g) optional PVC chain bucket;
- (h) lifting chain shall be 9.114 metres (30 feet) long;
- (i) hand chain shall be 4.267 metres (14 feet) long; and
- (j) the type 1 manual chain hoist shall be equal to Yale Hoists – Model SHA-½ or approved equivalent identified in B5.

E3.4 Manual Chain Hoist for use on type 1

E3.4.1 Type I Manual Chain Hoist shall conform to the following specifications:

- (a) the manual chain hoist shall be manufactured from stamped steel, compact and lightweight design, compact gear housing, low headroom unit;
- (b) minimum lifting capacity - 910 Kg (2000 lbs);
- (c) lubricated bearings and bushings, heat treated spur gearing for efficient operation with minimal effort;
- (d) mechanical load break for precise load holding capability;
- (e) 360° Swivel hooks with safety latches;
- (f) optional zinc plated chain;
- (g) optional PVC chain bucket;
- (h) lifting chain shall be 9.114 metres (30 feet) long;
- (i) hand chain shall be 4.267 metres (14 feet) long; and
- (j) the type 1 manual chain hoist shall be equal to Yale Hoists – Model SHA-1 or approved equivalent identified in B5.

E3.5 Manual Chain's Hoist Warranty shall provide an additional lifetime warranty on all chain hoist components against defects in workmanship and materials from the date of receipt.

E4. GANTRY CRANE TYPE II

E4.1 Type II gantry crane shall be portable and adjustable to the following specifications:

- (a) lightweight, corrosion-resistant, all aluminum alloy construction, with anodized powder coated finish;
- (b) minimum 2000 Kg (4,400 lb.) lifting capacity;

- (c) minimum 1.500 metre (60") clear span between supporting legs, adjustable to 2.500 metres (96") with a minimum clearance to the lifting ring of 1.700 metres (65");
- (d) adjustable beam span and support leg height;
- (e) extruded hollow aluminum alloy box beam, with holes spaced appropriate to allow 0.600 metre (24") cantilever, trolley stop;
- (f) one (1) Locking surround beam trolley with friction brake and lifting ring for chain hoist,
- (g) total assembled weight shall be less than 80 Kg (175 lb.);
- (h) the gantry crane shall be supplied with locking casters to eliminate spin and roll;
- (i) fittings, provide all fittings. Include all structural aluminum hangers, braces and all connection hardware. Provide adequately sized fabricated fittings for the indicated loads and factors of safety;
- (j) bolts, nuts and clamps;
- (k) provide all bolts and nuts, grade L-9;
- (l) gantry crane shall be factory tested before shipping. The Manufacturer and Contract shall ensure the **Test Certificate** shall be provided;
- (m) gantry crane shall be capable of being operated with a 0.600 metre (24") cantilever, and shall be supplied with removable and refillable water weights and appropriate containers to allow cantilever operation to 227 Kg (500 lb) maximum load; and
- (n) provide all required safety markings including maximum lifting capacity shall be indicated on each side of the main lifting beam and cantilever.

E4.2 The Manufacturer shall provide an additional one (1) year warranty on all gantry crane components against defects in workmanship and materials from the date of receipt over and above the warranty specified elsewhere for a total warranty period of two (2) years). All components shall be fully tested prior to shipping.

E5. DELIVERY

E5.1 Goods shall be delivered f.o.b. destination, freight prepaid to:

North End Water pollution Control Centre
2230 Main Street
Winnipeg, MB

E5.2 Goods shall be delivered within forty-five (45) Business Days of the placing of an order, except where otherwise agreed at the time of ordering.

E6. QUALIFICATION OF CONTRACTORS

E6.1 The Contractor shall be fully qualified, having a minimum of three (3) year experience with the necessary personnel and equipment to carry out the work described herein. Upon a request from the Contract Administrator the Bidder will have five (5) Calendar Days to arrange a demonstration of the facility to provide evidence that the work can be completed.

E6.2 The work that is to be performed requires thorough knowledge of and experience with the inspection, maintenance and repair of aluminum gantry cranes and chain hoist and satisfying the requirements of the Workplace Safety and Health Act (C.C.S.M. c. W210), Regulation 99/88 R.

E7. TRAINING

E7.1 The Bidder shall provide, at their expense, two (2) hours of operational and maintenance training by qualified staff for the City of Winnipeg personnel. The training shall be conducted in a combined session for each group of personnel. The one (1) session shall be sufficient to

provide adequate familiarization and orientation on the equipment, to the satisfaction of the Contract Administrator.

E7.2 The Contractor shall provide training for City staff, at a site the Contract Administrator choice within a City of Winnipeg facility.

E7.3 Training shall include written materials, on-site classroom sessions and "hands-on" training addressing.

E8. MANUALS

E8.1 The Contractor shall insure the following manuals be supplied with each of the items as shown on Form B: Prices when delivered, and shall contain a section in **English**:

- (a) operator's manual - three (3) set required; and
- (b) parts and service manuals, including preventative maintenance schedules for the life of the unit(s) - three (3) set required for each unit.

E9. PERFORMANCE RELIABILITY

E9.1 The responsibility for the design of the complete unit, its performance and reliability shall rest upon the Contractor the gantry cranes shall conform to ANSI B30.16 and OSHA standards.

E9.2 The term "*repeat failures*" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the unit inoperative, or required repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, or assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedules.

E9.3 Where the unit develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.