

873-2013 ADDENDUM 2

SUPPLY AND DELIVERY OF HIGH RATE CLARIFICATION EQUIPMENT FOR THE SOUTH END WATER POLLUTION CONTROL CENTRE (SEWPCC) UPGRADING / EXPANSION PROJECT

URGENT

**PLEASE FORWARD THIS DOCUMENT TO
WHOEVER IS IN POSSESSION OF THE
REQUEST FOR PROPOSAL**

ISSUED: February 4, 2014
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**THIS ADDENDUM SHALL BE INCORPORATED
INTO THE REQUEST FOR PROPOSAL AND
SHALL FORM A PART OF THE CONTRACT
DOCUMENTS**

Template Version: Ar20131129

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Request for Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 9 of Form A: Proposal may render your Proposal non-responsive.

PART A – PROPOSAL SUBMISSION

- Replace: 873-2013 Proposal Submission with 873-2013 Addendum 2 - Proposal Submission. The following is a summary of changes incorporated in the replacement Proposal Submission:
- Form F (R1): Revise the Life Cycle Cost Evaluation table row 1B to read “Construction Cost Adjustment: Relative differences in capital costs required to accommodate the equipment and achieve a fully-functioning HRC system including **but not limited to** construction costs for piling, concrete, site preparation, civil works, galleries and buildings, mechanical and electrical infrastructure, odour control and sludge **management**.”
- : Revise the Life Cycle Cost Evaluation table row 6 to read “**Other Facility Operations and Maintenance Costs**”.
- Revise the Life Cycle Cost Evaluation table row 6A to read “**Relative differences in operations and maintenance costs** required to accommodate the equipment **and achieve a fully-functioning HRC system within the SEWPCC, including but not limited to operations and maintenance costs for building heating and ventilation, odour control, sludge pumping, sludge thickening, sludge trucking, plant effluent water and potable water.**”
- Revise the Life Cycle Cost Evaluation table row 6B to read “**TOTAL OTHER FACILITY OPERATIONS AND MAINTENANCE COSTS (6A)**”.
- Clarification: The Proposal Submission section has been provided with this Addendum in Microsoft Word format for the convenience of Bidders; use of the electronic version is not mandatory.

PART B – BIDDING PROCEDURES

- Add: B16.2 For the purposes of calculating motorized equipment annual power draw in Form F (R1): Life Cycle Cost Evaluation, Bidders shall assume the following operating conditions:
- Add: B16.2(a) One (1) HRC train operating for 1,300 hours per year at 20 ML/d;
- Add: B16.2(b) Two (2) HRC trains operating for 100 hours per year, each at 80 ML/d.

- Revise: B18.4(a) to read: Plan and section drawings of the proposed HRC system and other general arrangement drawings, including all equipment and ancillary components required for a fully-functioning HRC system, excluding coagulant and polymer systems, dimensioned in metric units with wall **and slab** thickness as follows:
- Add: B18.4(a)(v) All elevated slabs shall have a minimum thickness of 300 mm;
- Add: B18.4(a)(vi) All base slabs shall have a minimum thickness of 500 mm.
- Clarification of B24.4.2: The construction cost adjustments will be prepared by the Contract Administrator using Timberline cost estimating software at a Class 4 level as defined by the Association for the Advancement of Cost Engineering International (AACEI). Cost estimates are bottom-up or rolled-up type estimates with a breakdown of labour, materials, and equipment. Factoring and other stochastic methods may be used to estimate less-significant scope areas. Cost resources used in the development of the cost estimates include but not limited to Bidders' proposal information, conceptual facility layouts and sketches prepared by the Contract Administrator, R.S. Means Building Construction Cost Data 2014, Contract Administrator's Historical Cost Data, Equipment Rates – Equipment Watch (Formerly Blue Book) Rental Rates 2014 Edition, and vendor quotations. This methodology will be consistently applied to all proposals.
- Revise: B24.4.3(a) to read: the Contract Administrator's estimate of process electrical, Ballast (if applicable), coagulant, polymer, alkalinity, maintenance **and other facility operations and maintenance** costs based upon the information submitted by the Bidder in Form F (R1): Life Cycle Cost Evaluation; plus

PART D – SUPPLEMENTAL CONDITIONS

- Add: D13.5 Total liquidated damages shall be limited to fifteen percent (15%) of the Contract Price.
- Add: D16.1.1 Further to C10, payment shall be in Canadian funds net thirty (30) Calendar Days after receipt and approval of the Contractor's invoice.
- Add: D16.8 For clarity, the net present value factor that shall be used for a 30 year period at a Discount Rate of 6% and an Inflation Rate of 5% is 25.8.
- Revise: D17.1 to read: Notwithstanding C11, the warranty period shall **expire the earlier of:**
- Add: D17.1(a) twenty-four (24) months after the completion of field functional testing and submission of completed Form 103 unless extended pursuant to C11.3, in which case it shall expire when provided for thereunder; or
- Add: D17.1(b) thirty-six (36) months after delivery of HRC equipment (see D12.1(e)) unless extended pursuant to C11.3, in which case it shall expire when provided for thereunder.

SECTION 43 21 13.29 – CENTRIFUGAL PUMPS

- Revise: 2.2 D. to read: Bearings shall be grease or oil bath lubricated. For oil bath lubrication provide built-in sight glass to check proper oil level. The bearings shall be rated for a minimum ABMA L10 life of **30,000** hours, without credit for any rear pump-out vanes to balance hydraulic thrust.
- Revise: 2.2 F.2. to read: Pumps with a V-belt drive shall be provided with adjustable motor base so that the motor can be easily moved from V-belt tensioning and adjustment. Provide fibreglass **or hot dip galvanized steel** belt guard to safely enclose the V-belt. Pump with direct-coupled motor shall be provided with flexible spacer coupling between the motor shaft and pump shaft. Provide coupling guard to safely enclosure the coupling.

SECTION 46 43 80 – HIGH RATE CLARIFICATION SYSTEM

Clarification of 2.2 E.:

The 365-day representative hydrograph and pollutograph data have been included with this Addendum in Microsoft Excel format. The data are reflective of raw wastewater arriving at the SEWPCC; the wastewater will undergo screening, grit removal, and flow splitting between the primary clarifiers and new HRC as described in the Specifications. The data are provided merely to illustrate the rapidly varying flow and loading conditions that are anticipated at the SEWPCC; the data are in no way intended to supercede or otherwise limit the specified influent and performance requirements.