**Annex Statement of Requirement**

1. GENERAL
	1. SUMMARY OF PROJECT
		1. XXX Canada has a requirement for the supply, delivery and offloading of potable water treatment equipment to the XXX in XXX. Equipment will be installed by XXX Canada plumbers and electricians.
	2. REFERENCES
		1. AWWA C700-09, Cold-Water Meters-Displacement Type, Bronze Main Case.
		2. NSF/ANSI 55, Ultraviolet Microbiological Water Treatment Systems.
		3. NSF/ANSI 61-2016, Drinking Water System Components – Health Effects
		4. CAN/CSA C802.2-12(R2017), Minimum Efficiency Values for Dry-Type Transformers.
	3. BACKGROUND INFORMATION
		1. The capacity of the Wabasso Campground water treatment system has been established as 190LPM peak instantaneous flow. The operation of the system is controlled by water pressure in the system. The submersible pump is controlled by variable frequency drive that adjusts speed to match a pressure setpoint for the system. The pump and treatment system will operate at the same pressure with variable flow rate depending on system demand.
		2. The water is provided by a submersible well pump which draws from a groundwater well located adjacent to the pumphouse. A single hydropneumatic pressure tank in the pumphouse helps regulate system pressure and minimize cycling of the well pump.
		3. All electrical components are tied to a 120/208V distribution panel, including lights, heat, pumps, and receptacles used for pumps and UV disinfection.
		4. There is a limited footprint in the building for equipment installation. Building measures 3.8m (L) x 2.8m (W) x 2.4m (H). Half of that space is designated for the proposed new potable water treatment system as outlined in Appendix “Existing Building”. Equivalent product(s) must fit within the space and be in similar dimensions to the approved products list.
	4. DELIVERY
		1. Contractor must contact the Project Authority at least five (5) business days prior to delivery. Delivery can only occur between Monday and Friday from 8:00am-4:00pm MST unless another time has been arranged prior to delivery

**Delivery Address:**

XXX

XXX

XXX

1. PRODUCTS
	1. SCOPE OF SUPPLY

* + 1. Two (2) New 5-micron absolute cartridge filters and housings
		2. Two (2) New 1-micron absolute cartridge filters and housings.
		3. Two (2) New NSF-55 Class A certified UV disinfection systems.
	1. CARTRIDGE FILTRATION
		1. Cartridge filtration will be used to remove the particulate matter, along with providing some removal for giardia cysts, which have removal standards in Parks Canada Agency’s Potable Water Guidelines and Standards. Dual trains each with one 5-micron cartridge filter and one 1-micron cartridge filter in series, along with cartridge housings will be used and must meet the following requirements:
			1. Two (2) Cartridge filters with nominal pore size rating of 5 microns.
			2. Two (2) Cartridge filters with nominal pore size rating of 1 micron.
			3. Filters to be cleanable/reusable cartridge type.
			4. Stainless Steel cartridge housings for each filter;
			5. Cartridge filters to be floor mounted;
			6. All wetted materials to be NSF 61 approved.
		2. Approved Product(s): Harmsco HC/90-5 filters and Harmsco HC/90-1 filters, each with a HUR 90 HP housing or equivalent.
	2. UV DISINFECTION UNITS
		1. To meet the log removal credits outlined in the XXX Canada Potable Water Guidelines and Standards required for primary disinfection. The filtration, UV systems, coupled secondary disinfection with chlorine is required to achieve 4 log removal for both cryptosporidium oocysts and viruses (Adenovirus). The UV units must meet the following requirements:
			1. All components wall mounted.
			2. Each UV unit sized to provide at least 40 mJ/cm² at 190LPM peak flow.
			3. 190LPM peak capacity
			4. Maximum Hardness 200mg/L as CaCO3
			5. Automatic quartz sleeve wipers
			6. Continuous indirect monitoring of dose provided.
			7. Visual indication of adequate or inadequate dose provided.
			8. Automatic flow shutoff when dose drops below 40 mj/cm².
			9. Forced air cooling
		2. Approved Product(s): UV Pure Hallet 750PN NSF 55A Certified or equivalent.
	3. SHELF SPARES
		1. Contractor must supply spare consumables and equipment requiring regular replacement under the contract.
			1. 5-um cartridge filters: Provide six (6).
			2. 1-um cartridge filters: Provide six (6).
			3. UV bulbs: Provide four (4).
			4. UV sleeves: Provide two (2).
			5. UV sensors: Provide two (2).
	4. OPERATION AND MAINTENANCE MANUALS
		1. Contractor must provide Operating and Maintenance manuals for new equipment in English. Contractor must provide two (2) hard copy sets and one (1) electronic file in pdf file format of operations, installation and maintenance information for each system.

Refer to the Compliance Matrix for the complete performance specifications and instructions that must be satisfied in order for an offer to be deemed responsive.

**Appendix Existing Building**



New floor mounted filtration trains – installed in parallel

New wall mount UV Disinfection Systems

Installed in parallel

**Annex Basis of Payment**

It is **MANDATORY** that Offerors submit firm prices for the period of the proposed Contract for all items listed hereafter. This section, when completed, will be considered as the Offeror's financial offer.

1. Offerors MUST provide offers as per unit of issue requested. It is the responsibility of the offeror to provide conversion to the unit of issue requested. Failure to do so will render the bid non-responsive without further consideration.
2. Should there be an error in the extended pricing of the Offeror's proposal, the unit pricing shall prevail and the extended pricing shall be corrected in the evaluation. Any errors in the quantities of the Bidder's proposal shall be changed to reflect the quantities stated in the RFP.
3. Rates quoted must remain firm for the period of the Contract. Rates MUST include ALL costs associated with providing the goods and/or services in accordance with the Annex “Statement of Requirement”. GST, if applicable, is to be shown as a separate item on any resulting invoice. Payment will be made in accordance with the following pricing. All prices are firm unit prices exclusive of any applicable taxes.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** | **Description** | **Qty.** | **Unit of Issue** | **Unit Price****($ CAD)** | **Extended Price****(Qty. x Unit Price)** |
| 1. | New 5-micron absolute cartridge filters and housings | 2 | Each | **$** | **$** |
| 2. | New 1-micron absolute cartridge filters and housings | 2 | Each | **$** | **$** |
| 3. | New NSF-55 Class A certified UV disinfection systems. | 2 | Each | **$** | **$** |
| 4. | 5-um cartridge filters | 6 | Each | **$** | **$** |
| 5. | 1-um cartridge filters | 6 | Each | **$** | **$** |
| 6. | UV bulbs | 4 | Each | **$** | **$** |
| 7. | UV sleeves | 2 | Each | **$** | **$** |
| 8. | UV sensors | 2 | Each | **$** | **$** |
| 9. | Delivery/Shipping | 1 | LS | **$** | **$** |
| **TOTAL EVALUATED PRICE** | **$** |

**Annex Mandatory Technical Criteria**

**COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS**

**Instructions to Offerors**

1. A complete list of the mandatory evaluation criteria are detailed in the Compliance Matrix below.
2. Offers which fail to meet all of the mandatory evaluation criteria will be declared non-responsive.
3. Offerors should demonstrate their understanding of the requirements contained in the solicitation and explain how they meet each mandatory evaluation criteria. Offerors should demonstrate their capability in a thorough, concise and clear manner.
4. The technical offer should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the offer will be evaluated. Simply repeating the statement contained in the solicitation or stating, without any substantiating information, that a offeror is compliant will not be sufficient.
5. Substantiating information may include, but is not limited to, specification sheets, technical brochures, photographs or illustrations. If published supporting technical documentation is not available, the Offeror should prepare a written narrative complete with a detailed explanation of how its offer demonstrates technical compliance. All substantiating information should be provided with the offer at solicitation closing date. It is the Offerors responsibility to ensure that the submitted supporting technical documentation provides detail to demonstrate that the proposed product(s) meet the requirements of the evaluation criteria.
6. If the supporting documentation referenced above has not been provided at solicitation closing, the Contracting Authority will notify the Offeror that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the offer non-responsive and the offer will be given no further consideration.
7. In order to facilitate the evaluation of the offer, Canada requests that offerors address and present the topics in the order of the evaluation criteria, and include a grid in their proposal, containing the information which demonstrates how the offeror meets each evaluation criteria. Alternatively, and to avoid any duplication, offerors may also refer to the different sections of their offers by identifying the specific paragraph and page number where the subject topic has already been addressed.
8. Offerors must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.

**COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:**

|  |  |  |
| --- | --- | --- |
| **Requirement:** | **Manufacturer(s) Offered:** | **Model Number(s) Offered:** |
| Potable water treatment equipment |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item #** | **Performance Specification** | **Status** (M) Mandatory(D) Desirable | **Performance Specification Offered:** Offeror should indicate how they meet the performance specification by recording this information in this column | **Cross Reference:** In this column, Offerors should cross-reference where this performance specification is indicated in their supporting documents |
| **1.0** | **UV disinfection system units** |  |  |  |
| 1.1 | Peak Each UV unit sized to provide at least 40 mJ/cm² at 190LPM peak flow | M |  |  |
| 1.2 | Maximum Hardness 200mg/L as CaCO3  | M |  |  |
| 1.3 | Automatic quartz sleeve wipers | M |  |  |
| 1.4 | Continuous indirect monitoring of dose provided | M |  |  |
| 1.5 | Visual indication of adequate or inadequate dose provided | M |  |  |
| 1.6 | Automatic flow shutoff when dose drops below 40 mj/cm² | M |  |  |
| 1.7 | Forced air cooling | M |  |  |
| 1.8 | Must be wall mounted; maximum height of each unit must be 1.5m  | M |  |  |
| 1.9 | NSF-55 Class A Certified | M |  |  |
| 1.11 | All wetted materials must be NSF 61 approved | M |  |  |
| **2.0** | Cartridge Filtration |  |  |  |
| 2.1 | Floor mounted | M |  |  |
| 2.2 | Cartridge filters with nominal pore size rating of 1 micron and 5 microns | M |  |  |
| 2.3 | Filters must be cleanable/reusable cartridge type. | M |  |  |
| 2.4 | Stainless Steel cartridge housings for each filter; maximum floor space of each housing unit must be 0.4x0.4 [m]  | M |  |  |
| 2.5 | All wetted materials must be NSF 61 approved | M |  |  |
| **3.0** | General |  |  |  |
| 3.1 | Power requirement: system tied to a 120/208V distribution panel | M |  |  |
| 3.2 | Products must be imperviousto cold and hot temperatures 1 to 40 degree Celsius | M |  |  |