



**REQUEST FOR PROPOSAL:  
WATER TREATMENT PLANT CHEMICALS**

# **1. INTRODUCTION**

## **Purpose**

The Pembina Valley Water Cooperative Inc. (PVWC), through this request for proposal (RFP), intends to select chemical suppliers to provide chemicals to three water treatment plants to be used in the process of producing safe potable water. All chemicals must be approved for use in the water treatment process and proof of NSF Certification must be provided. The proposals will be evaluated against a predetermined set of criteria of which price may not be the primary consideration.

## **Background**

PVWC is a wholesaler of water which is distributed through its pipelines to its municipal customers. Its mandate is to provide treatable/potable water that meets all the Canadian Drinking Water standards to our municipal members. PVWC is a non-profit organization owned by 14 municipalities in southern Manitoba. The Company has three water treatment plants located in Letellier, Morris, and Stephenfield. The head office is located in Altona, Manitoba.

## **RFP Contact**

All questions and comments regarding the RFP shall be sent to the RFP Coordinator listed below:

**Kirt Henry**  
**Production Manager**  
kirt@pvwc.ca  
Ph: (204) 324-1931  
CellPhone: (204)304-1603

**Edwin Barnuevo, CPA, CA**  
**CFO**  
edwin@pvwc.ca  
(204)324-1931

## **Water Treatment Plants**

Potential contaminants are removed from the raw surface water source by the following processes for Letellier water treatment plant:

1. Coagulation / Flocculation
2. Sedimentation Treatment
3. Filtration
4. Chlorination (secondary disinfection as needed)

The other two plants (Morris and Stephenfield) have the following processes:

1. Pre-oxidation
2. Sedimentation
3. Microfiltration
4. Nano-filtration
5. Chlorination (secondary disinfection as needed)

# **2. SCOPE**

## **Chemical Supply**

This RFP is to secure chemical suppliers for the following chemicals and annual usage:

- Activated Carbon - 350 bags
- Aquapure 3655 NFS - 0 to 7,072 Kg
- Chlorine - 12,240 Kg
- Citric Acid 50% - 8,150 Kg
- Ferric Sulphate - 33,500 Kg

- Fluorosilicic Acid - 8,930 Kg
- Hydrochloric Acid - 870 Kg
- Pebble Quick Lime - 560,000 Kg
- Polymer - 17.5 MT
- Potassium Permanganate - 385 Kg
- Sodium Bisulphite 38% - 6,500 Kg
- Sodium Hydroxide - 15,000 to 74,000 Kg
- Sodium Hypo - 55,000 to 90,000 Kg
- Vitec 4000 (antiscalant) - 3,300 Kg
- Vitect 8200 (antiscalant) - 3,300 Kg

The chemicals and annual usage are allocated to our three water treatment plants, as shown below:

**Red River Regional (Letellier) Water Treatment Plant**

Product	Units	Aprox. Annual Volume
Activated Carbon	25 kg. Bag	350 Bags
Coagulant/Polymer (CTI 4954)	Bulk, Tonne	17,500 kg.
Chlorine gas 100%	68 kg. cylinders	135 cylinders
Ferric Sulphate ~50%	Bulk, kg.	33,500 kg.
Fluorosilicic Acid 23-27%	136 kg. Barrels	5380 kg.
Hydrochloric Acid 30-35%	23 kg. Carboys	600 kg.
Pebble Lime (Quick Lime ¾") 99%	Bulk, Tonne	560 MT
Sodium Hydroxide 50%	Bulk, Tonne	0 to 59,000 kg.
Sodium Hypochlorite 12%	20 L. Carboys	2000 L.

**Morris Water Treatment Plant**

Product	Units	Aprox. Annual Volume
Aquapure (sequestering agent)	272.5 kg Barrels	0 to 5200 L.
Chlorine gas 100%	68 kg. cylinders	45 cylinders
Citric Acid 50%	250 kg. Barrels	5200 kg.
Fluorosilicic Acid 23-27%	136 kg Barrels	2600 kg.
Sodium Bisulphite 38%	273 kg. Barrels	1700 kg.
Sodium Hydroxide 50%	310 kg. Barrels	13,500 kg.
Sodium Hypochlorite 12%	210 L. Barrels	5000 kg.
Sodium Hypochlorite 12%	20 L. Carboys	18,000 kg.
Vitec 4000 (antiscalant)	500 Lb. Barrels	2900 Lb.
Vitec 8200 (antiscalant)	500 Lb. Barrels	2900 Lb.
Potassium Permanganate	Pails, 25 kg.	135 kg.

**Stephenfield Water Treatment Plant**

Product	Units	Aprox. Annual Volume
Hydrochloric Acid 30-35%	23 kg. Carboys	270 kg.
Potassium Permanganate	Pails, 25 kg.	250 kg.
Citric Acid 50%	250 kg. Barrels	2950 kg.
Fluorosilicic Acid 23-27%	136 kg Barrels	950 kg.
Sodium Bisulphite 38%	273 kg. Barrels	4800 kg.
Sodium Hydroxide 50%	310 kg. Barrels	1500 kg.
Sodium Hypochlorite 12%	210 L Barrels	9700 kg.
Sodium Hypochlorite 12%	Tote, 1230 L.	20,000 to 56,000 kg.
Vitec 4000 (antiscalant)	500 Lb. Barrels	1000 kg.
Vitec 8200 (antiscalant)	500 Lb. Barrels	1000 kg.

### **Additional Requirements**

The RFP must include shipping cost to PVWC water treatment plants. The proposal will be for a 1-year period.

Please note that the above usage is based on prior year volume and may change due to the fact that the source of water of each plant is surface water, innovation in running the plants, and the changing regulation requirements.

### **3. SUBMISSION OF PROPOSAL**

Please submit a copy of your proposal through email at [kirt@pvwc.ca](mailto:kirt@pvwc.ca) and [edwin@pvwc.ca](mailto:edwin@pvwc.ca) or mail to:

Pembina Valley Water Cooperative Inc.  
P.O. Box 1180  
429 Industrial Dr.  
Altona, Manitoba  
R0G 0B0  
Attention: RFP FOR CHEMICALS

### **Proposal Terms**

- We reserve the right to reject any and all proposals received.
- We reserve the right to reject any or all bids, to waive or not waive informalities or irregularities in bids or bidding procedures, and to accept or further negotiate cost, terms, or conditions of any bid determined by PVWC to be in the best interests of PVWC even though not the lowest bid.

### **Schedule of Events**

Release of RFP	August 13, 2019
RFP Closing	September 3, 2019
Award of the Contract	September 6, 2019

### **4. GENERAL TERMS**

#### **Subcontracting**

The successful Respondent shall not assign or subcontract any part of this agreement without prior written consent of the RFP Contact.

#### **Cost of Proposal**

The Respondent shall assume all costs related to the preparation and drafting of their proposals and the PVWC shall, in no circumstances, be liable to compensate Respondents for such costs.

### **5. EVALUATION CRITERIA, PROCESS AND AWARD**

The proposals will be evaluated based on the criteria specified below. The Evaluation Team may consider other criteria that the team identifies as relevant during the evaluation process. However, any criteria considered will be applied evenly and fairly to all proposals.

1. Pricing

2. Product quality
3. References (Proven track record)

We encourage you to provide innovative products as cost efficient alternatives on our operations and value added services.

This RFP is not a tender and we do not commit in any way to select a preferred respondent. We reserve the right to: reject any or all proposals, accept any proposal or parts thereof.

Bidders will be notified of the bid evaluation results after the bid evaluation process has been completed.

## **6. BID FORMAT**

- Bidders must use the bid format in **Appendix A**. Prices entered on the bid sheet in Appendix A are to be quoted in Canadian funds exclusive of taxes. All costs must be included in the unit cost of the item (i.e. fuel charge, minimum order charge, shipping, administrative costs, disbursements, etc.). Freight on board (FOB) destination shall include duty, custom clearance, exchange and all other charges.
- Bidders must include a data sheet (i.e. Certificate of Analyses) for each product interested to bid on.
- In a separate sheet, bidders are encourage to provide value added services and innovative products, if any.