



**District of Barriere**  
**REQUEST FOR PROPOSAL (RFP)**

**Winter Road Maintenance Services**

**Reference No: RFP 21-01**

**Issue Date: February 5, 2021**

**Closing Time & Date: 2:00pm - February 26, 2021**

**Attention: Bob Payette, CAO**

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## **A. Introduction**

The District of Barriere, British Columbia, is seeking proposals from qualified and experienced road maintenance Contractors to provide winter road maintenance services.

The District may enter into a 1-year contract with a private road maintenance service provider for its winter road maintenance requirements on a lump sum cost basis. At the end of the 1-year contract term the District, at its sole discretion, may extend the contract up to 2 years beyond the original 1-year term.

To assist Proponents in preparing their proposals, a copy of the proposed form of Agreement and Winter Road Maintenance Schedules (WRMS) are attached. Information about the District's service area, roads and maintenance specifications can be found in the appropriate Schedules.

## **B. Objectives, Scope and Specific Contractor Requirements**

Note: Sections 1 and 2 of this part B of the RFP set out the District's objectives and the scope of the services sought under this RFP. The Remaining sections of this part B set out some of the specific obligations that will apply to the Proponent, if any, who enters into the contract for such services with the District.

### **1. Objectives**

The District, through this RFP, has the following objectives:

- (a) To continue use of the private sector for the provision of its winter road maintenance should the contract price meet the District's expectations,
- (b) To continue the application of a high standard of care and efficiency in managing and performing winter road maintenance; and
- (c) To continue to create and foster a climate of partnership between the District, the private sector, District partners, and the travelling public.

### **2. Scope & District Requirements of Contractor**

The District has approximately 31.5 centerline kilometres of roads with a mix of arterial which includes school bus routes (Priority 1), residential/industrial (Priority 2) and undeveloped/seasonal (Priority 3):

- |                      |  |
|----------------------|--|
| (a) Priority 1 Roads | Approximately 13.1 centerline kilometres;      |
| (b) Priority 2 Roads | Approximately 17.3 centerline kilometres; and, |
| (c) Priority 3 Roads | Approximately 1.1 centerline kilometres;       |

The District requires winter road maintenance services on a lump sum fee basis as described in *Schedule 15 - Winter Road Maintenance Specifications*, and additional non-lump sum road maintenance services on a case-by-case basis as determined by the District and reimbursed per *Schedule 6 – Additional Maintenance Service Rates*. Additional non-lump sum road

maintenance services may be requested of the Contractor; delivered by District staff; or, delivered by another contractor.

The following Table provides a list of road maintenance services required by the District for annual lump sum and for non-lump sum road maintenance services (Additional Maintenance Services).

**Lump Sum and Non-Lump Sum Maintenance Services**

WRMS Number	Maintenance Categories	Lump Sum	Non-Lump Sum
1-1	Winter Maintenance Resources	B	
1-2	Winter Snow and Ice Removal	B	B
1-3	Roadside Snow and Ice Control	B	B
1-4	Winter Abrasives and De-icing	B	B
1-5	Winter Road Condition & Service Reporting	B	
1-6	Additional Snow Removal and Sanding Firehall, Solar Aquatics Wastewater Plant, Louis Creek Well Road, Cardboard Bins	B	B

Proponents shall review the details of *Schedule 15 - Winter Road Maintenance Specifications (WRMS)* in the development of their proposal.

**3. Response Time**

Many maintenance activities, especially winter snow and ice control, have a direct impact on the safety of the travelling public. The Contractor is advised that the response time, both in identifying conditions during road patrol, and in mobilizing operations to address the conditions, is of primary importance.

The Contractor shall ensure that its operations reflect this response time importance. The liquidated damages and/or demerit points, which will be applied by the District for inadequate response times by the Contractor, are listed in *Schedule 7 - Liquidated Damages*.

**4. Lump Sum Payment Work**

The Annual Lump Sum Fee shall provide the Contractor with full compensation for all labour, equipment and material required to complete the services within the specified times identified in the WRMS.

All material supplied shall conform to the appropriate standards and be approved by the District or be on the Province’s Designated Sources for Materials List where applicable at the time of performance.

If the Contractor identified, in their Proposal, a standard to be provided over and above the specified standard, the Contractor shall be responsible for all labour, equipment and material

required to meet its proposed standard all of which is included in the Annual Lump Sum Fee. No additional compensation shall be provided for lump sum services.

## **5. Additional Maintenance Services**

If the District wishes the Contractor to undertake services identified in *Schedule 6* and *Appendix H* of this RFP, the Contractor shall be requested to submit a written quotation identifying the service, quantities, price, quality, and timeframe to undertake the specified service. The Contractor is not obligated to undertake any Additional Maintenance Services requested by the District, and all Contractor refusals to perform Additional Maintenance Services requested by the District shall be in writing and signed by a Contractor authorized person. Refusals must be received by the District within seven calendar days of the Additional Maintenance Service being requested by the District.

If the District considers the quotation service and price details to be excessive or inadequate, the District may ask for quotations from other Contractors. If it is determined that the service is to be completed by another Contractor for the District, the Contractor shall cooperate with these parties.

If someone other than the Contractor is undertaking work in an area to be maintained, the Contractor shall coordinate its daily activities to eliminate or minimize activity in the vicinity of such other work such that both parties can safely carry out their work.

## **6. Liquidated Damages**

When the Contractor fails to perform any of the services to be provided under the Contract Work within the applicable time as set forth in the Contract, the Contractor acknowledges and agrees that a loss or damage will be sustained by the District because of such delay. The Contractor further agrees that it is and will be impracticable and extremely difficult to ascertain and determine the actual loss or damage which the District will suffer in the event of and by reason of such failure, and accordingly the Contractor will pay to the District liquidated damages in accordance with *Schedule 7 - Liquidated Damages*. It is agreed that these amounts are a reasonable estimate of the actual loss or damage to the District, which will accrue because of such failure.

The District will deduct liquidated damages from the subsequent Contractor's monthly invoice(s).

## **7. Materials**

All materials required by the Contractor to perform their work under this contract shall be the sole responsibility of the Contractor.

## **8. Quality of Materials**

All Materials provided by the Contractor shall be new, except as approved by the District. Materials supplied by the Contractor shall conform to the requirements of the Contract.

As specified or as requested by the District, the Contractor shall make available for inspection or testing a sample of any material to be provided by the Contractor. The Contractor shall obtain for the District the right to enter upon the premises of the material manufacture or supplier to carry out such inspection, sampling and testing as specified or as requested by the District. The Contractor shall notify the District of the sources of supply sufficiently in advance of the material shipping dates to enable the District to perform the required inspection, sampling, and testing.

The District will not be responsible for any delays to the Contractor's operations where the Contractor fails to give sufficient advance notice to the District to enable the District to carry out the required inspection, sampling and testing before the scheduled shipping dates. If the Contractor has given the District notice as to the necessity of inspection under this section and the District fails to carry out said inspection within a reasonable period, the Contractor may proceed under this Contract and any delays resulting therefrom shall not be the responsibility of the Contractor.

Material that is not specified by the District shall be of a quality best suited to the purpose required and the use of such material shall be subject to the approval of the District.

## **9. Changes to Work Force**

The Contractor will be successful, in part, because of the qualification and abilities of the management and supervisory individuals listed in the Contractor's Proposal. If the Contractor wishes to replace any of its management, supervisory or operational staff, such replacement shall be subject to approval (not to be unreasonably withheld) by the District. The replacement individual must have skills and abilities similar to the employee being replaced. The Contractor shall notify the District of the proposed change in staff and will provide the District with information outlining the skills and abilities of the replacement individual.

## **10. Maintenance Responsibilities during Capital Construction Projects**

During road construction projects by other Contractors, the Contractor shall continue to be responsible for all maintenance operations in accordance with the contract, until such time the District advises the Contractor in writing of times, and locations of roads and responsibilities that will be part of a construction contract.

On those sections of road designated in writing as the responsibility of the Construction Contractor, the Contractor shall continue road patrolling as required under the applicable WRMS and shall report any conditions considered hazardous to the Construction Contractors site representative and notify the District as soon as possible.

The Contractor will continue to apply de-icing chemicals or abrasives or carry out snowplowing. The Contractor will continue to provide the services, which remain their responsibility within the terms and conditions of the contract.

## **C. Instructions to Proponents**

Proponents shall comply with the following instructions.

### **1. Proposal Submission**

Proponents must submit their response to this RFP to:

**District of Barriere Winter Road Maintenance RFP Evaluation Committee  
c/o Chief Administrative Officer**

**All proposals must be received by 2:00pm PST (Closing Time) on Friday, February 26, 2021 (Closing Date).**

For a proposal submission to be considered it must be received and date stamped by the District by the Closing Date and Closing Time. Any proposals with a time and date stamp later than the above closing time and date and/or not submitted to the above-noted office shall be returned to the Proponent unopened. No faxed or email submissions will be accepted.

Each Proponent shall submit only one (1) proposal. The submission of more than one (1) proposal may result in proposal disqualification, at the sole discretion of the District. Each Proposal will be evaluated on its own merit and the District intends to decide on this service based on what will provide the maximum value for money advantage to the District.

If a proposal fails in some way to comply with the requirements of this RFP, the District may nevertheless choose, at its discretion, to retain that proposal for consideration.

### **2. Inquiries**

All inquiries related to this RFP must be in writing and directed to:

Bob Payette  
CAO, District of Barriere  
[bpayette@barriere.ca](mailto:bpayette@barriere.ca)

**NOTE: No telephone inquiries shall be made.**

All inquiries must be made not later than five (5) days before the Closing Date and Closing Time. The District may choose not to respond to inquiries made within five (5) days of the Closing Date and Closing Time.



All inquiries and corresponding answers will be posted on the District of Barriere website [www.barriere.ca](http://www.barriere.ca) up to (5) days prior to the closing date.

### **3. Addenda**

The District may, at its sole discretion, determine if an addendum to this RFP is required because of any inquiry made by a Proponent, or the resulting responses given to inquiries by the District and may issue a written addendum. It is the responsibility of Proponents to check the District of Barriere website [www.barriere.ca](http://www.barriere.ca) for addenda.

### **4. Forwarding Proposal to the District**

The Proponent when submitting a proposal must:

- (a) Provide the Proposal in a single sealed package/envelope (containing two (2) envelopes) clearly indicating the Proponent's name, name of the contact person, address, telephone number and fax number; and,
- (b) The following information must be provided in two (2) distinct envelopes clearly marked as "Envelope #1", "Envelope #2", as appropriate, indicating the Proponent's name on each envelope.

Envelope #1 shall contain the Work Plan (in an easily reproducible form) and,  
Envelope #2 shall contain the Price Details (in an easily reproducible form).

**NOTE: The envelope system being used is for evaluation purposes only and does not imply that the lowest bid Price will govern the selection process. The successful Proponent would be based upon an adjusted price and value for money per this RFP.**

### **5. Format of Proposal – Envelope #1 - Work Plan**

This envelope will contain the information necessary to enable the District to determine how the services will be provided and work completed and to assess the quality of the Proponent's Work Plan and its ability to meet the required level of service and quality standards.

To meet the requirements of Envelope #1, the Proponent must organize and present its response to the six (6) Key Components as further detailed in the following Section C, Subsection 6 - Key Components of the Work Plan.

The Proposal must show how each WRMS will be achieved for each of the Key Components. The District will be assessing the Proponent's ability to deliver safely and competently, at a minimum, the required road maintenance services by addressing both operational and administrative components, while minimizing the liability of the Proponent and the District.

**Note that responding to additional issues foreseen by the Proponents, either as part of, or in addition to, the listed Key Components, may provide a better rating than responding to only the Key Components.**

As the proposal will form part of any eventual contract with the District, proposal details shall, where appropriate and applicable, be specific and measurable. The Proposal Sections A to H is not to exceed one hundred (100) pages written in a minimum 11-pitch font and present under the following Sections:

- A. Cover Letter
- B. Resource Plan (staff and equipment): Accountability, Experience, Qualifications, Numbers and References
- C. Winter maintenance work plan
- D. Quality Assurance, Control and Information Reporting and Documentation, Environmental Practice and Policy
- E. Training and Staff Skills, and Health and Safety Programs including Covid-19 protocol
- F. Ongoing Communications and/or Call Center
- G. Innovation/Enhanced Deliverables
- H. Mandatory Requirements:
  - i. Insurance verification. Confirmation of insurance requirements per Schedule 13
  - ii. A copy of the Proponent's Health, Safety, and Environmental policies
  - iii. A copy of the Proponent's Quality Assurance and Control policy, with details of resources, facilities and systems employed and managed to ensure customer satisfaction with the Work performed
  - iv. A current WorkSafe BC Clearance Certificate
  - v. A statement indicating if the Proponent is involved in any litigation, or pending litigation, related to a contractual dispute
  - vi. The completed and signed RFP Receipt Confirmation Form
  - vii. The completed Financial Information Form
  - viii. The Corporate Experience Form
  - ix. The Subcontractor Experience Form
  - x. The Key Personnel Form in Appendix E, one (1) Form per person
  - xi. The Equipment Available for this Project Form
  - xii. Summary of Lump Sum Fee Form
  - xiii. Additional Maintenance Services Unit Cost Form
  - xiv. Signed Non-Collusion Disclaimer per Section E7 of this RFP; and
  - xv. Any reasonable amount of Bidder promotional material.

## **6. Key Components of the Work Plan**

The intent of the work plan submission requirement is for the Proponent to clearly demonstrate how the Proponent proposes to perform the services and that a work plan has been established which enables the Proponent to deliver the services in accordance with the requirements of the

contract. It is not intended that the Proponent will repeat the contract requirements, but rather provide details on the planning, resources, training, methods, organization, etc. that will be used to meet the contract requirements and to document that they are met. The following Table provides the Key Component weightings and minimum requirements.

Item	Key Components	Weighting	Minimum Requirements
1	Resource Plan (Staff and Equipment): Accountability, Experience, Qualifications, Numbers and References	30	22
2	Winter Maintenance Strategy and Accountability	45	32
3	Quality Assurance, Control and Information Reporting and Documentation, Environmental Practice and Policy	15	10
4	Training and Staff Skills, and Health and Safety Programs	5	3
5	Ongoing Communications and/or Call Center	5	3
	<b>Total Points</b>	<b>100</b>	<b>70</b>
6	Innovation/Enhanced Deliverables <sup>1</sup>	10	

**Table 1: Key Component Weightings and Minimum Requirements**

## 7. Proposal Format – Envelope #2 - Price Details

The purpose of Envelope #2 is to contain the requested price details for the Work. There are two (2) requirements for Envelope #2:

- (a) Lump Sum Fee for the services will apply to the Work to be carried out within each complete winter season for the duration of the Contract, as described in WRMS *Schedule 15 – Winter Road Maintenance Specifications*. Proponents must complete the *Summary of Lump Sum Fee Form* in Appendix G.
- (b) Unit prices for Additional Maintenance Services that may be required from time to time and as determined at the sole discretion of the District. Proponents must complete the *Additional Maintenance Services Unit Cost Form* in Appendix H.

## 8. RFP Receipt Confirmation Form

To receive full consideration during evaluation, proposals should include a detailed response to the *RFP Receipt Confirmation Form* in Appendix A.

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<sup>1</sup>If the minimum requirements are met, any points for Component 6 Innovation/Enhanced Deliverables will then be included in a Proponent’s total points prior to the calculation of the Proposal Adjustment Factor.

## D. Evaluation

### 1. Proposal Mandatory Content

The Proposal must contain the mandatory documents and information as detailed in Section C.5.H.

If the Proponent has complied with all the Mandatory Content, then the proposal will proceed to the next evaluation stage, Scoring the Work Plan. Otherwise, the District may choose to reject the proposal, in which case Envelope #2 will be returned to the Proponent, unopened.

### 2. Scoring the Work Plan

The District will assess the information provided by the Proponent in each of the Key Components shown in Section C.6:

- (a) If the Proposal does not score to meet the Minimum Requirements in **Table 1**, the Proposal may be rejected, in which case Envelope #2 will be returned to the Proponent, unopened.
- (b) If the total score of Components 1, 2, 3, 4, and 5 of the Work Plan is less than 70 points, the Proposal may be rejected, in which case Envelope #2 will be returned to the Proponent, unopened.

### 3. Selecting the Preferred Proponent

The preferred Proponent will not be determined by price alone. Selection will be based on an evaluated price proposal, which the District will determine by adjusting the Annual Lump Sum Fee submitted by the Proponent, and subject to Council approval. The Annual Lump Sum Fee will be adjusted by a Proposal Factor Adjustment (PFA) based on the District's evaluation of the *Proponent's Work Plan* (see Appendix G).

The Proposal Factor Adjustment (PFA) is:

$$\text{PFA} = [(110 - A)/40] \times .10 \times \text{Annual Lump Sum Fee}$$

Where:

- (a) A is the score of the *Proponent's Work Plan*
- (b) 110 is the maximum score.
- (c) 40 is the difference between the maximum score of 110 and the minimum overall requirement of 70.
- (d) A maximum of 10% is applied to the quality factor of the proposal.

The Total Evaluated Proposal Price for the Proponent will be determined as follows:

$$\text{Total Evaluated Proposal Price} = \text{Annual Lump Sum Fee} + \text{PFA}$$

#### **4. Additional Information**

The evaluation team may, at its discretion, request clarifications or additional information from a Proponent with respect to this RFP. The evaluation team may make such requests to all Proponents or only a selected Proponent and may consider such clarifications or additional information in evaluating a Proposal.

#### **5. Interviews**

The evaluation team may, at its discretion, invite some or all of the Proponents to appear before the evaluation team to provide clarification of their Proposal. In such event, the evaluation team will be entitled to consider the clarifications received in evaluating Proposals.

#### **6. Litigation**

The District may reject a Proposal if the Proponent, or Officer or Director of the Proponent, is or has been engaged directly or indirectly in a legal action against the District, its elected or appointed officers, representatives, or employees in relation to any matter.

In determining whether to reject a Proposal under this Section, the District will consider whether the litigation is likely to affect the Proponent's ability to work with the District, its consultants, and representatives, and whether the District's experience with the Proponent indicates that there is a risk the District will incur increased staffing and legal costs in the administration of the contract if the District and the Proponent were to enter into the contract.

### **E. General Conditions**

#### **1. No Contractual Obligations Arising from this RFP or the Submission of a Proposal**

This RFP is not a call for tenders or a request for binding offers and no contractual or other legal obligations shall arise between the District and any Proponent because of the issuance of this RFP or the submission of any Proposal in response to this RFP, until and unless the District and a Proponent enter into a contract for the services sought by the District under this RFP. For clarity and without limiting the foregoing, this RFP does not commit the District in any way to treat Proponents in any particular manner, to select a Proponent, to proceed to negotiations with any Proponent or to enter into any contract and the District may reject any and all Proposals, re-issue a new RFP or end this RFP process at any time, at its sole discretion.

#### **2. Proponent's Expenses**

Proponents are solely responsible for their own expenses in preparing and submitting their Proposal, and for any meetings or discussions relating to, or arising from, this RFP.

### **3. No Claims**

The District will not be liable to any Proponent for any claims, whether for costs, expenses, loss or damage, or loss of anticipated profits, or for any other matter whatsoever, because of his or her participation in this RFP.

### **4. Conflict of Interest**

Proponents shall disclose any potential conflicts of interest and existing business relationships they have with the District, its elected or appointed officials or employees. The District may rely on such disclosure. The District, in its sole discretion, may reject a Proposal from any Proponent that would create such a conflict of interest if the Proponent were to enter into the contract with the District.

### **5. Solicitation of Council Members and District Staff**

Proponents and their agents are not permitted to contact any member of the District Council or District staff with respect to this RFP, other than the District representative described in Section C.2, at any time prior to the closing of this RFP. The District may, at its sole discretion, reject the Proposal of any Proponent that makes any such contact.

### **6. Confidentiality**

All Proposals become the property of the District and will not be returned to the Proponent once they comply with the Mandatory Content. All Proposals will be held in confidence by the District unless otherwise required by law. In this respect, Proponents should be aware that the District is a public body defined by and subject to the Freedom of Information and Protection of Privacy Act of British Columbia and may be required to disclose the contents of a proposal pursuant to that Act.

### **7. Non-Collusion**

The undersigned certifies that this bid is in all respects bona fide, fair and without collusion or fraud with any other person. As used in this section the word "person" means any natural person, joint venture, partnership, corporation or other business or legal entity.

Further, I certify that the items to be supplied by my firm will meet or exceed the specifications as listed in this request for bid.

---

**FIRM (Corporate Name):**

**SIGNATURE (Authorized Company Official):**

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**ADDRESS:**

**NAME and TITLE (Printed):**

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**DATE (Month Day, Year):**

## Appendix A – Receipt Confirmation Form

District of Barriere  
Winter Road Maintenance Services  
Request for Proposal Number: RFP21-01

Please return this form by fax as soon as possible to:

District of Barriere Winter Road Maintenance RFP Evaluation Committee  
c/o Chief Administrative Officer  
Fax #: 250-672-9708

COMPANY: \_\_\_\_\_

STREET ADDRESS:  
\_\_\_\_\_

CITY: \_\_\_\_\_

POSTAL CODE: \_\_\_\_\_

PROVINCE: \_\_\_\_\_

MAILING ADDRESS, IF DIFFERENT:  
\_\_\_\_\_

FAX NUMBER: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

TITLE: \_\_\_\_\_

E-MAIL ADDRESS: \_\_\_\_\_



**Appendix B – Financial Information Form**

Provide name of bank: \_\_\_\_\_ Years with: \_\_\_\_\_

Provide name of insurance company: \_\_\_\_\_ Years with: \_\_\_\_\_

## Appendix C – Corporate Experience Form

How long has firm been in business? \_\_\_\_\_

List a recent work history of projects and value of the projects. Give location, brief description of the work, the owner's name and address and the name, telephone and fax numbers and email address of the owner's representative who can knowledgeably act as a reference for the performance of the work.

	Project Name and Location	Approx. Value	Year Complete	Owner Reference
1.				
2.				
3.				
4.				
5.				

## Appendix D – Subcontractor’s Experience Form

List all subcontractors proposed to be used.

	Portion of Work	Name of Subcontractor	Similar Project Experience
1.			
2.			
3.			
4.			
5.			

## Appendix E – Key Personnel Form

Complete copies of this following form for key personnel and operators:

<b>Key Personnel Form</b>	
Name	Company
Educ. / Tickets / Certifications	
Years of Experience	Years of Employment
<b>Project Reference 1 (most recent project)</b>	
Description: (Approximate value, completion date, description – maximum fifty words)	
Name and Telephone Contact for Owner or Owner’s Rep.	
<b>Project Reference 2 (most applicable in last 5 years)</b>	
Description: (Approximate value, completion date, description – maximum fifty words)	
Name and Telephone Contact for Owner or Owner’s Rep.	
<b>Project Reference 3 (within last 5 years)</b>	
Description: (Approximate value, completion date, description – maximum fifty words)	
Name and Telephone Contact for Owner or Owner’s Rep.	



## Appendix G – Summary of Lump Sum Fee Form

**This portion to be completed by the Proponent**

**Annual Lump Sum Fee (all inclusive, excluding GST) for the Lump Sum Winter Maintenance Services to be performed in one (1) year of the Contract.**

<b>WRMS Number</b>	<b>Winter Maintenance Activity</b>	<b>All Inclusive Annual Lump Sum Fee</b>	<b>GST</b>
1-1	Winter Maintenance Resources	n/a	n/a
1-2	Winter Snow and Ice Removal	\$	\$
1-3	Roadside Snow and Ice Control	\$	\$
1-4	Winter Abrasives and De-icing	\$	\$
1-5	Winter Road Condition & Service Reporting	\$	\$
1-6	Additional Snow Removal and Sanding Firehall, Solar Aquatics Wastewater Plant, Louis Creek Well Road, Cardboard Bins	\$	\$
<b>Line 1</b>	<b>Total Winter Maintenance</b>	<b>\$</b>	<b>\$</b>

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**Authorized Bidder Signing Officer**

---

**Date**

# Calculation of Adjusted Proposal Price

**This portion to be completed by the District**

Line 2	Annual Lump Sum Fee from Line 1	\$
Line 3	Add Proposal Factor Adjustment (PFA)	\$
Line 4	Total Evaluate Proposal Price (Line 2+Line 3)	\$

**Table 2: RFP Evaluation**

## Appendix H – Additional Maintenance Services Unit Cost Form

<b>Additional Maintenance Services</b>	<b>Unit of Measure</b>	<b>Unit Cost</b>
Plow/spreader equipment operator	Per hour	\$
5 ton plow/spreader truck (or equivalent)	Per hour	\$
3 ton plow/spreader truck (or equivalent)	Per hour	\$
Grader	Per hour	\$
Pick-up truck plow/spreader	Per hour	\$
Winter abrasives (treated sand)	Cubic metres	\$
De-icing material (salt)	Cubic metres	\$
Other		
Other		
Other		



**Appendix I – Winter Road Maintenance Schedules**  
(for e-copies of this RFP - attached as separate file)

## Appendix J –Annual Average Weather Patterns

### Barriere, BC

#### A. Temperature (°C)

Statistic	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Average	-5	-2	3.8	8.8	13.1	16.6	19.3	19.3	14	6.8	0.2	-5.1

#### B. Precipitation

Statistic	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Monthly rainfall (mm)	9	13	23	27	39	49	47	42	37	35	30	9
Monthly snowfall (cm)	27	15	5	1	0	0	0	0	0	1	19	38

#### C. Days with: Snowfall

Statistic	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Above 0.2 cm	8	5	2	0	0	0	0	0	0	1	4	9
Above 5 cm	2	1	0	0	0	0	0	0	0	0	1	3
Above 10 cm	0	0	0	0	0	0	0	0	0	0	0	1
Above 25 cm	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>10</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>13</b>

#### D. Days with: Precipitation

Statistic	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Above 0.2 mm	11	9	9	9	11	11	9	8	8	10	12	12
Above 5 mm	3	2	2	2	3	4	3	3	3	3	3	4
Above 10 mm	0	0	0	0	1	1	1	1	1	0	1	1