



## 2018/2019 HIGHWAY MAINTENANCE AGREEMENTS FOR SERVICE AREAS 12 AND 15 REQUEST FOR PROPOSALS

### SUMMARY OF EVALUATION REVIEW BY THE PROJECT DIRECTOR

As the Project Director for the Highway Maintenance Contract Renewal Project I have undertaken a review of the evaluation process for the Service Areas 12 and 15 Request for Proposals (RFP). Below is the summary and recommendations from my review:

#### Proposal Submissions

Four proposals for Service Area 12 and five proposals for Service Area 15 were correctly submitted following the instructions outlined in the RFP.

#### Third Party Document Review

The third party documentation (insurance and bonding) were received from all of the proponents. They were opened and reviewed by Kim Pilkington from the Ministry's Insurance and Bonds group, Trina Kuiack from the Highway Maintenance Contract Renewal Project team and Julie Mattes from the Ministry of Justice.

The documentation from all of the proponents met the requirements of the RFP.

#### Service Proposal Evaluation

The four service proposals for SA 12 were evaluated by an independent team consisting of three staff members from the Rocky Mountain District office where SA 12 is located (Ron Sharp, District Manager, Rocky Mountain, Art McLean, Operations Manager, Selkirk and Alley Bates, Road Area Manager, Selkirk), an Evaluation Team Advisor (Rick Blixrud, s.22 Deputy Director, Southern Interior Region) and a lead evaluator (Carl Lutz, District Manager, Bulkley-Stikine).

The five service proposals for SA 15 were evaluated by an independent team consisting of three staff members from the Thompson Nicola District office where SA 15 is located (Trent Folk, District Manager, Thompson Nicola, Graeme Schimpf, Operations Manager, Thompson and Jarret Wedel, Bridge Area Manager, Thompson), a previous Operations Manager from the Bulkley-Stikine District (Bryan Crosby, Regional Manager, Planning & Partnerships, Northern Region) and a lead evaluator (Dean Daniel, Deputy District Manager, Peace).

The results of both the SA 12 and 15 service proposal evaluation processes were reviewed by an independent due diligence team consisting of three senior s.22 Ministry staff (Tracy Cooper, s.22 Regional Director and team lead, Michael Proudfoot, s.22 Assistant Deputy Minister, and Jon Buckle, s.22 Regional Director)

The service proposal evaluation process was overseen by the independent Fairness Advisor.

A summary report of the service proposal evaluation process and recommendations was completed by each lead evaluator. I reviewed the summary reports and checked several of the evaluation ratings against

the proposals to confirm that the ratings given were appropriate for the information provided by the proponents. I also confirmed that the ratings were undertaken in accordance with the RFP criteria and the Proposal Evaluation Process Guide for the RFP.

I conducted debriefing meetings with the lead evaluators, due diligence team lead and Fairness Advisor to confirm that the evaluation process was followed properly and the ratings given to each proponent were done appropriately. From these meetings and my review of the lead evaluator summary reports I approved the results of the service proposal evaluations for SA 12 and 15.

### **Price Proposal Evaluation**

Once confirmation that the service proposal evaluations were completed properly, the price proposals were opened and reviewed by myself and Joey Vaesen from the Highway Maintenance Contract Renewal Project team and the independent Fairness Advisor.

The price proposal point calculations and final point calculations were completed by myself, Joey and the independent Fairness Advisor. A summary sheet with the point allocations is attached.

I am satisfied that the final point allocations for the proponents were calculated correctly.

### **Independent Fairness Advisor's Summary Report**

I have reviewed the independent Fairness Advisor's summary report and conducted a meeting with the Fairness Advisor.

I am satisfied that her observations and conclusions that no bias towards any of the proponents during the evaluation process are valid and correct.

### **Recommendation**

Based on my observations, discussions and calculations made throughout the evaluation process, I am satisfied that the process for SA 12 and 15 was conducted properly as identified in the RFP and the Proposal Evaluation Guide for the RFP and I am in support of the Preferred Proponents that have been identified for SA 12 and 15 through this process.



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Ian Pilkington  
Project Director  
Highway Maintenance Contract Renewal

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July 12, 2018  
Date

Page 003 to/à Page 004

Withheld pursuant to/removed as

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**2018/2019 HIGHWAY MAINTENANCE AGREEMENT FOR SERVICE AREA 12**  
**REQUEST FOR PROPOSALS #HM-R6-SA12**  
**THIRD PARTY DOCUMENTS ASSESSMENT**

Proponent Name: Acciona Infrastructure Maintenance Inc		
Third Party Document	Acceptable	Unacceptable
Undertaking to Provide Liability Insurance	✓	
ILOC <u>or</u> Bid Bond	✓	
Consent of surety	✓	

Proponent Name: Interior Roads Ltd		
Third Party Document	Acceptable	Unacceptable
Undertaking to Provide Liability Insurance	✓	
ILOC <u>or</u> Bid Bond	✓	
Consent of surety	✓	

Proponent Name: VSA Highway Maintenance Ltd		
Third Party Document	Acceptable	Unacceptable
Undertaking to Provide Liability Insurance	✓	
ILOC <u>or</u> Bid Bond	✓	
Consent of surety	✓	

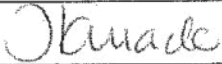
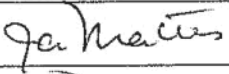

Proponent Name: Emcon Services Inc		
Third Party Document	Acceptable	Unacceptable
Undertaking to Provide Liability Insurance	✓	
ILOC <u>or</u> Bid Bond	✓	
Consent of surety	✓	

**Comments:**

The Undertaking to Provide Liability Insurance submitted by Emcon Services Inc referred to "the Ministry" rather than "the Province" as follows. This is not material and the undertaking is acceptable.

*We further undertake to provide to the Province signed, certified copies of such policies and attached endorsements no later than thirty (30) days before the commencement date of the Highway Maintenance Agreement.*

We, the undersigned, have reviewed and evaluated the above Proponents' Third Party Documents for compliance with the requirements of the RFP and have indicated such Third Party Documents that meet those requirements to be acceptable to the Province.

Evaluator	Signature	Date
Trina Kuiack		June 14, 2018
Julie Mattes		June 14, 2018
Kim Pilkington		June 14, 2018

**2018/2019 HIGHWAY MAINTENANCE AGREEMENT FOR SERVICE AREA 12**  
**REQUEST FOR PROPOSALS #HM-R6-SA12**

**RELATIONSHIP REVIEW ASSESSMENT**

We, the Relationship Review Committee, have reviewed the Bring-Down Relationship Disclosure Form for the following Proponents:

- Acciona Infrastructure Maintenance Inc;
- EMCON Services Inc;
- Interior Roads Ltd; and
- VSA Highway Maintenance Ltd.

The Relationship Review Committee has cleared, based on the information contained in documentation submitted, these Proponents as free from actual or perceived conflict of interest or unfair advantage, as the case may be, for the purposes as related to this RFP.

**Relationship Review Committee:**




Jon Buckle

\_\_\_\_\_  
Bruce Mackay



Tom Bone



Rick Blixrud

Dated: July 16, 2018



Ministry of  
Transportation  
and Infrastructure

**Ministry of Transportation and  
Infrastructure**

**Highway Maintenance Agreements**

**2018 Renewal RFP Evaluation Report**

**SA 12 – Selkirk**

Completed by: Carl Lutz, Lead Evaluator  
June 6<sup>th</sup>, 2018

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## **Executive Summary**

The Province of British Columbia, intends to enter into a Maintenance Agreement with the private sector to maintain the highway infrastructure for Service Area 12 – Selkirk.

On April 12, 2018 the Ministry of Transportation & Infrastructure issued a Request for Proposal (RFP) on BC Bid's website for interested parties to solicit a maintenance proposal to supply maintenance services for SA 12 - Selkirk for a period of 10 years, with a 5 year option to extend.

This RFP required that proponents provide a Service Proposal that detailed their proposed Organizational Structure and associated Resource Strategy, how they will provide winter maintenance services and also specific processes related to their QMS for defined maintenance activities for the Service Area.

The proposal submission closing date was June 14, 2018. Following closing, the RFP submissions were then evaluated against established criteria as part of the overall process for determining a lead proponent. The purpose was to identify a qualified entity (the Proponent) that may be offered the opportunity to enter into a Highway Maintenance Agreement to maintain and repair the provincial highways year round in Service Area 12 for a term of 10 years, with an optional 5-year extension at the sole discretion of the Province.

Four proposals were received and evaluated for the following proponents:

- Acciona Infrastructure Maintenance Inc.
- Emcon Services Inc.
- Interior Roads Ltd.
- VSA Highway Maintenance Ltd.

The evaluation process involved a team of individuals (for details refer to page 8 – Evaluation Team) from the following Districts: Bulkley-Stikine, Rocky Mountain, Vancouver Island as well as a Fairness Advisor, an Independent Advisor, a Conflict of Interest Adjudicator and a Due Diligence Team.

The evaluation was based on the following criteria:

***The evaluation was based on the criteria and weighting set out in Appendix B to the RFP. The Evaluation Team considered whether the Response clearly met the requirements of the RFP.***

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## Evaluation Results

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**Evaluation Team**

Carl Lutz (Team Lead) District Manager, Bulkley Stikine – Smithers Office

Ron Sharp District Manager, Rocky Mountain District – Cranbrook Office

Art McClean Operations Manager, Rocky Mountain District - Golden Office

Alley Bates Roads Area Manager, Rocky Mountain District – Revelstoke Office

Rick Blixrud                      Consultant Contractor and Advisor, Kamloops (*Rick was not an evaluator*)

Nikki Schneider                Assistant to the Lead Evaluator, Vancouver Island District - Sannich Office (*Nikki was not an evaluator*)

### **Evaluation Process**

The Evaluation Team convened starting on July 2, 2018 through to and including July 5, 2018 to review and evaluate the Proposal Responses submitted in response to the RFP.

The Evaluation Team evaluated the Proposal Responses only against the requirements of, and in accordance with, the terms of the RFP.

Each Evaluation Team member carefully read all Proposals individually in advance of July 2, 2018 and took careful notes as to the extent to which each Proposal Response met the requirements of the RFP. All decisions were well documented on the Evaluation Team Summary Sheet and were consensus based.

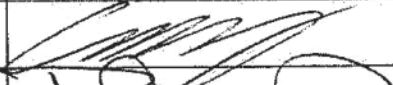
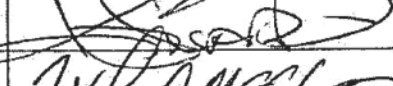
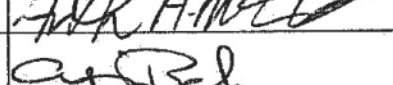

## APPENDIX A – Evaluation Team Summary Sheet

- \*See attached

## APPENDIX B – Evaluation Team, Due Diligence Team and Fairness Advisor Endorsement

### 1. Evaluation Team Confirmation

We, the Evaluation Team, have reviewed this Service Proposal Evaluation Report and confirm it accurately documents the process of our evaluation of the Service Proposals and resulting conclusions from such evaluation.

Evaluation Team Member	Signature	Date
Carl Lutz		July 6/18
Ron Sharp		July 6/18
Arthur McClean		July 06, 2018
Alley Bates		6 July 2018

### 2. Due Diligence Team Confirmation

We, the Due Diligence Team, have reviewed all Service Proposals and documentation within this Service Proposal

Evaluation Report and as provided to us in an interview with the Evaluation Team Leader. We believe the evaluation of Service Proposals and points awarded to Proponents to be reasonably consistent with the evaluation requirements.

Due Diligence Team Member	Signature	Date

### 3. Fairness Advisor Confirmation

I have observed and/or monitored the evaluation of Proposals. In my opinion, the evaluation was conducted in a manner that meets reasonable standards of fairness, and complies with the process set out in the RFP and in the evaluation Guide.

Fairness Advisor	Signature	Date

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Section	Title	Content Requirements	Weighting	Evaluation Details
Section 1 SERVICE AREA RESOURCE STRATEGY	1.1 - Service Area Organizational Structure	Describe your organization's organizational structure for delivering the Services and demonstrate proficiency in the Service Area. Include: i. A Service Area organizational chart identifying your organization's Key Individuals and Key Firms (with names). Include a brief description of each position's qualifications and role, and provide copies of resumes; and	3.0	- Include organizational chart specific to the Service Area. - Review definition of Key Individuals and Key Firms. - Include description of each position's qualifications and role. - Include copies of resumes.
	1.2 - Fleet Equipment and Subcontract Services	Detail the vehicles your organization anticipates following in the Service Area through the use of Fleet equipment and subcontracted services during the summer and in various times between seasons. Include entity names and services to be provided by each entity.	5.0	- Demonstrate an understanding of the requirement to use subcontracted equipment. - Subcontractors for utilizing fleet equipment and subcontracted services. - Types of activities fleet equipment and subcontracted services will be used for in this Service Area (e.g., traffic management, mowing).
	1.3 - Fuel, Stockpiles, and Material Management	The requirement to each of the questions in this Section 1 are intended to elicit evidence that a Proponent organization's Quality Management System is effective in the planning, implementation and delivery of water maintenance services. In the responses to each of the questions in this Section 1, Proponents must demonstrate they are able to meet the requirements of each of the following Specifications located in the Draft Highway Maintenance Agreement: - Highway Snow Removal - Specification 3.01; - Snow and Ice Binding Prevention and Control - Specification 3.02; - Other Snow Removal and Ice Control - Specification 3.03; - Highway Safety Plans - Specification 3.04; and - Communications - Specification 3.05.	2.0	- Detailing to deployment strategy, key resource routes, and how this ties into their approach to meet the specifications
Section 2 WATER MAINTENANCE SERVICES	2.1 - Fuel, Stockpiles, and Material Management	Describe your organization's proposed fuel and stockpile locations of Water Abrasive and Water Chemicals in order to meet the Specifications listed above. Include: i. A map identifying proposed locations of fuel, stockpiles and salt sheds;	2.0	- Map provided identifying fuel locations
	2.2 - Fuel, Stockpiles, and Material Management	Describe your organization's rationale for selecting each proposed fuel, stockpile, and salt shed location (e.g., Proponents should not propose building, constructing, rebuilding or repairing a salt shed, or any other improvements, on Province-owned land).	2.0	- Detailing to deployment strategy, key resource routes, and how this ties into their approach to meet the specifications
	2.3 - Fuel, Stockpiles, and Material Management	Services and facilities available at each proposed fuel and stockpile locations	2.0	- What is the intended use of the fuel site, for example: water abrasive material storage, repair/assembly etc. and ice liquid storage etc., etc.

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Section	Title	Content Requirements	Weighting	Evaluation Details
		<p>g. Types and quantities of Winter Abrasives and Winter Chemicals in each proposed yard and multiple use locations.</p> <p>h. All environmental mitigation efforts in respect of stockpiles proposed to be located in Province owned pits, and</p> <p>i. Contingency plans in respect of expected resources.</p>	<p>2.0</p> <p>2.0</p> <p>2.0</p>	<p>Winter abrasives, salt and liquid supplies, etc.</p> <p>For example, spill management plan</p> <p>Description of how stockpiles be represented during the year in each of the identified yards or multiple sites.</p>
3.2 - Operational Staff	Describe how your organization's winter operational staff and resources will meet the Specifications listed above. Include: a. Shift schedules and staffing for each proposed yard location, including, but not limited to: i. Number of staff members per shift; b. Shift start and end times; c. How gaps and handovers between shifts will be covered; d. How gaps and handovers between seasons will be covered; and e. Use of fixed equipment, subcontracted services, auxiliary and seasonal staff; and f. Equipment information for each proposed yard location, including: i. Types and numbers of equipment.	<p>5.0</p> <p>Enough people per shift to handle various storm intensities.</p> <p>All shifts have start and end times for each yard to demonstrate ability to meet response times, for example, school bus route</p> <p>Contingency plans for coverage between shifts to meet specifications, for example, overtime, fixed equipment, other resources from former areas, pre-loading, blade changes.</p> <p>Strategy for changing weather conditions to meet Specifications for unforeseen events.</p> <p>Fixed equipment plans and strategies, lists of fixed equipment number of auxiliary and seasonal staff they plan to hire.</p> <p>How many single, tandem and triaxle trucks, graders, loader piles and other types of equipment.</p>		



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Section	Title	Content Requirements	Weighting	Evaluation Details
		<p>b. A contingency plan outlining where spare equipment is to be located;</p>		What type of spare equipment is available for contingency or where it will be stored.
		<p>c. Training provided to supervisors, operators, assistants, lined equipment operators and subcontractors, including:</p> <ul style="list-style-type: none"> <li>- training topics;</li> <li>- approach to delivery of training; and</li> <li>- evaluating the effectiveness of training.</li> </ul>	5.0	<ul style="list-style-type: none"> <li>- Confirm training programs are in place;</li> <li>- Provide examples of training topics (e.g. identify safety meetings;</li> <li>- safe work procedures, lock out procedures);</li> <li>- Timeliness of training (e.g. pre-work);</li> <li>- Strategies to provide training to lined equipment operators or subcontractors;</li> <li>- QCCQA training provided;</li> <li>- QCCQA follow-up on the training provided (verification training in workings).</li> </ul>
	<b>3.3 – Pre-Winter Preparedness</b>	Detail your organization's pre-winter preparedness strategy to demonstrate your organization's ability to meet the Specifications listed above.	6.0	<p>(Not exhaustive list of examples that may be covered in response include (but are not limited to):</p> <ul style="list-style-type: none"> <li>- Equipment calibration;</li> <li>- Material stockpile in place (eg. Sand, salt, chemicals) in proper locations;</li> <li>- Vehicles and equipment winter ready (batteries changed over, blades in place, etc.);</li> <li>- Stakeholder meetings (eg. School bus routes, shift schedules for major industrial assets); and</li> <li>- Trail runs prior to first events.</li> </ul>
	<b>3.4 – Equipment Deployment Plan</b>	<p><b>PART 1</b></p> <p>Winter Storm Intensity (focus for more than an 11 hour period)</p> <ul style="list-style-type: none"> <li>- Light – 1 to 2cm per hour</li> <li>- Moderate – 2 to 3cm per hour</li> <li>- High – 3 to 4cm per hour</li> <li>- Extreme – over 4 cm an hour</li> </ul> <p>Detail your organization's equipment deployment plan to demonstrate your organization's ability to meet the Specifications listed above. Outline the strategies and tools your organization will use to ensure its deployment plan is effective in responding to a moderate storm. Describe how your equipment deployment plan changes for the light, high and extreme storm scenarios. Include a description of the following:</p>		
		<p>a. Pre-storm strategies:</p>	1.00	<p>(Not exhaustive list of examples that may be covered in response include (but are not limited to):</p> <ul style="list-style-type: none"> <li>- Pre check on vehicles;</li> <li>- Deploying resources in advance;</li> <li>- Setting up lined equipment, subcontractors and materials;</li> <li>- Storm notification to stakeholders;</li> <li>- Weather monitoring;</li> <li>- Planning;</li> <li>- Location of pre stage vehicles;</li> <li>- Mechanics on standby (preparation of staff);</li> <li>- Pre storm maintenance activities, such as salting, sanding, packing;</li> <li>- and</li> <li>- Adequate supply of materials and parts (e.g. plow blades, shovels, tires etc.).</li> </ul>
		<p>b. Map and/or tables, along with description, of deployment from each proposed point and multiple locations;</p>	1.00	<p>- Two site yard sites (as described in the response to Question 3.1) and cycle times.</p>

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Section	Title	Content Requirements	Weighting	Evaluation Details
		c. Number, type, size and attributes of equipment (including, but not limited to, materials to be deployed by equipment)	3.00	Describes what equipment is deploying what materials (e.g. liquid, solids, powders)
		d. Identify key constraint zones and key geographic areas, including micro-climates	3.00	School bus, shelter, industrial zones, hazard zones that require special attention
		e. Strategies to ensure additional resources such as auditors, test equipment and subcontracted services are available when needed. Include reference to remote or isolated areas, and	3.00	Sufficient coverage during shift changes so Specifications are continually met.
		f. Post storm strategy	3.00	Not exhaustive list of examples that may be covered in response include (but are not limited to): <ul style="list-style-type: none"> <li>Planning based on parking</li> <li>Cleaning barriers and sidewalks</li> <li>Equipment repair</li> <li>Debrief with staff and stakeholders</li> <li>Post storm evaluation for continual improvement</li> <li>Sufficient materials remaining between storming and</li> <li>Depletion of current staff resources (extreme storm)</li> </ul>
		<b>PART 2</b>	1.00	Not exhaustive list of challenges that may be covered in response include (but are not limited to):
		Outline the top three weather-related challenges, conditions or incidents that would cause a change in your organization's winter deployment plan in the Service Area and your response for each challenge, condition or incident.	1.00	<ul style="list-style-type: none"> <li>Freeze/thaw conditions, equipment breakdowns, MW, etc.</li> <li>Identify why they would deploy differently</li> <li>Identify realistic challenges, and</li> <li>Realistic mitigation strategies.</li> </ul>
			2.00	How points are scored per weather-related challenge (i.e. one 1.00 point question for the first half and one 2.00 point question for the second half, per challenge)
			2.00	
			2.00	
<b>Section 4 - QUALITY MANAGEMENT SYSTEM</b>	<b>4.1 - Bridge Deck Maintenance (Specification 6.01)</b>	Provide details of your organization's entire process for the activity of Bridge Deck Maintenance within its Quality Management System. Demonstrate how your organization's process includes, but is not limited to: a. An inspection program	2.0	respondents shall clearly demonstrate they have an effective inspection program for bridge deck maintenance.

Section	Title	Content Requirements	Weighting	Evaluation Details
		<p>b. Work distribution including:</p> <ol style="list-style-type: none"> <li>Planning of the work including determination of which areas are the priority for each year of the Two Year Quantified Work Plan;</li> <li>Production; and</li> <li>Scheduling;</li> </ol>	2.0	Quantified Plan - how it balances with all the other needs of the Service Area.
		c. A work process and timetable for the analysis and timetable for determining the delivery methodology for concrete, wood and asphalt decks;	1.0	Do the deck maintenance processes meet the requirements of the specifications (e.g., objective, response times, materials, etc.) and the context (e.g., quantified maintenance services plan submissions, work reporting details). Consideration for replacement as input.
		d. A quality control and quality assurance program and continual improvement process;	1.0	Type and frequency of inspections. Who completes the audits. Internal audit on this process. Use of recognized product list.
		e. An environmental management plan (describe relevant sections);	1.5	Environmental priorities. Following environmental regulations and best practices. Addressing necessary approvals (eg. Water Act, DFO) and/or notification under permits (if applicable).
		f. Communication plans and stakeholder engagement specific to this activity;	1.0	Outreach to stakeholders. Owner details. Contingency planning for emergency response. Practicing in advance of release. First nations and school buses communications. Signage, portable CWS signs. Daily meetings. Use of social media.
	<b>6.2 - Highway Pavement Patching (Specification 1.01)</b>	Provide details of your organization's entire process for the activity of Highway Pavement Patching only (exclude Crack Sealing) within its Quality Management System. Determine how your organization's process includes, but is not limited to:		
		a. An inspection program;	2.0	Program should clearly demonstrate they have an effective inspection program for highway pavement patching.
		b. Work distribution and delivery assessment including:	2.0	Quantified Plan - how it balances with all the other needs of the Service Area. How decisions are made regarding methodology (e.g., is application of pavement Section 2)? How decisions are prioritized (e.g., short term vs long term strategies).
		<ol style="list-style-type: none"> <li>Determination of appropriate treatment and/or repair options;</li> <li>Planning of the work including determination of which areas are the priority for each year of the Two Year Quantified Work Plan;</li> <li>Production; and</li> <li>Scheduling;</li> </ol>	1.0	Do the deck maintenance processes meet the requirements of the specifications (e.g., objective, response times, materials, etc.) and the context (e.g., quantified maintenance services plan submissions, work reporting details)?
		d. A quality control and quality assurance program and continual improvement process;	1.0	Type and frequency of inspections. Who completes the audits. Internal audit on this process. Use of recognized product list.
		e. An environmental management plan (describe relevant sections);	1.5	Following environmental regulations and best practices (e.g., licensing of trucks and equipment, disposal of materials, etc).

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Section	Title	Content Requirements	Weighting	Evaluation Details
		4. An inspection program;	2.5	Program should clearly demonstrate they have an effective inspection program for damage/repairs maintenance.
		5. Work identification and safety assessment including: I. Determination of appropriate maintenance repair and/or replacement options; II. Planning of the work, including determination of culverts are priority for each year of the Two-Year Quinquennial Work Plan; III. Prioritization and; IV. Scheduling.	3.0	Quintennial (5-year) work schedules with all the other needs of the Site Area. How planning of culvert repair and replacement is prioritized over 2 year horizon. Scheduling of culvert repair or replacement in consideration of environmental seasons.
		6. A construction methodology	1.0	Construction, testing method, erosion control (e.g. rip-rap, brush), Site safety plan. Ensure general Specifications for work on highways is followed. Hazard identification for entry to excavation. Written safe working procedures. Safety meetings.
		7. A quality control and quality assurance program and continual improvement process;	1.0	Type and frequency of inspections. When complete the audit. Internal audit in this process. Compliance with design. Ongoing performance monitoring and remediation if required.
		8. An environmental management plan (describe relevant sections)	1.0	Following environmental regulations and best practices (e.g. clearing of tracks and equipment, disposal of materials, etc.), Provisions for safe passage of migrants. Ongoing performance monitoring and remediation if required. Qualified professionals for design if needed. Environmental monitoring.
		9. Appropriate material loaded and	0.5	Use of recycled product (e.g. Aggregate culvert for the site (e.g. thickness, compaction profile, armoring, head walls etc.), Culvert stone in aggregate. Suitable fill material and aggregate is used in accordance with specification requirements
		10. Communication plans and stakeholder engagement specific to this activity.	1.0	Contingency planning for emergency response. Public notification in advance of closure (e.g. use of social media). CMS signs, etc. Signage details including portable CMS signs.
Section 3 - Subtotal			17.0	
Section 3 - Subtotal			60.0	
Section 4 - Subtotal			34.0	
Grand Total			100.0	

Ministry of Transportation and Infrastructure  
Highway Maintenance Contract Renewal Team  
4C-949 Blanshard Street  
VICTORIA, B.C.  
V8W 3E6

July 11, 2018

**Re: 2018/2019 Highway Maintenance Agreement for Service Area 12  
Request for Proposal #HM-R6-SA12**

Attention: Dan Palesch  
Deputy Director/Highway Maintenance Contract Renewal Team

The Due Diligence Committee ("the Committee") has reviewed the four proposals received in accordance with the Request for Proposal noted above, and in addition has reviewed the Ministry of Transportation 2018/2019 Highway Maintenance Agreement for Service Area [12] Service Proposal Evaluation Worksheet and Service Proposal Evaluation Summary submitted to us for review.

On July 11, 2018, the Committee, comprising of Mike Proudfoot and Tracy Cooper interviewed the SA 12 Evaluation Team leads, Mr. Carl Lutz and Mr. Ron Sharp.

*Four* Five Service Area Proposals were evaluated, specifically:

Acciona Infrastructure Maintenance Inc.  
Emcon Services Inc.  
Interior Roads Ltd.  
VSA Highway Maintenance Ltd.

Upon completion of our review, the Committee can confirm the Evaluation Team followed the evaluation guide and associated tools in determining the scoring. In addition, the Committee can confirm the ordinal ranking of the four proponents as determined by the Evaluation Team.

Yours sincerely;



Jon Buckle  
Due Diligence Committee



Tracy Cooper  
Due Diligence Committee



Mike Proudfoot  
Due Diligence Committee

## MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE

### 2018 / 2019 Highway Maintenance Agreements Project

RFP Process: Service Area 12

#### Report of the Fairness Advisor

## INTRODUCTION

As Fairness Advisor for the 2018 / 2019 Highway Maintenance Agreements Project (the "Project"), my mandate is to advise to the Project team regarding fairness issues, and provide independent assurance to the Project Board as to whether the procurement process for the Project is conducted in accordance with reasonable standards of fairness, and in compliance with the process approved by the Board and published.

This is my report on the evaluation of Service Proposals submitted in relation to the Project's Request For Proposals for Service Area 12 (the "RFP").

## RFP AND EVALUATION PROCESS GUIDE

The RFP was published in April, 2018, inviting Proposals from Proponents qualified through the Project's RFQ process. The RFP included general information about the Service Area and the Province's objectives, the form of the Highway Maintenance agreement to be signed by the successful Proponent, the required format and content of Proposals, a summary of the process and criteria for evaluation of Proposals, and other terms of the competition.

The RFP identified me as the Fairness Advisor for the Project with a general description of my role, and indicated that Proponents or Proponent Team Members could contact me.

**Data Room / RFI Process:** The Project team operated an electronic data room with information and documents relevant to the Project, and answered written requests for information ("RFIs") from Proponents. I had access to and monitored the data room, and reviewed questions and answers between the Project team and Proponents.

**Evaluation Process Guide:** The Evaluation Process Guide used in evaluation of responses to RFPs initially issued for the Project was reviewed on completion of those evaluations, and underwent slight modifications. The Evaluation Process Guide sets out:

- responsibilities of all participants in the evaluation;
- procedures for review of evaluators' relationships to eliminate potential conflicts;
- method for scoring Proposals, including weighting of the various components;
- expected standards of documentation;
- a process for communicating with Proponents if required;

and other matters. I was satisfied that the Evaluation Process Guide set out a reasonable basis for evaluation of the Proposals, consistent with the RFP.

## EVALUATION

Proposals were evaluated by a team of evaluators with expertise in the technical subject matter of the Proposals, and a separate team of legal evaluators reviewed certain content related to

some requirements of the Project. Evaluators had access to advisors, and a process for seeking clarification of Proposals if necessary.

**Relationship Review:** Before evaluators gained access to the Proposals, a Relationship Review Committee conducted a process consistent with the Evaluation Process Guide to elicit and consider details of relationships among members of Proponent teams and the evaluation team, to ensure evaluators were free of bias.

**Orientation:** Before commencing work, evaluators received an orientation in which Project leaders highlighted various aspects of the Evaluation Process Guide, including methods for evaluation, standards related to confidentiality, consistency, the role of the Fairness Advisor, and other matters.

**Evaluation Process:** During the evaluation, I had access to the Proposals and was informed of all meetings. I talked with evaluators, and attended such meetings as I considered necessary to carry out my role, including a selection of the meetings where evaluation conclusions were discussed.

I observed that all evaluators were familiar with the details of each Proposal, and participated fully in discussions. Evaluators considered and instructed themselves appropriately on questions of objectivity, consistent application of the evaluation criteria to all Proposals, and other fairness considerations. Evaluators reached consensus on their conclusions, which I am satisfied were based on thorough review of the Proposals.

## CONCLUSION

During the RFP process, the Project team discussed as necessary and instructed itself appropriately on matters related to fairness. Periodically I was asked for, or offered, advice and comments on fairness issues. In each case, my recommendations were handled appropriately.

Based on all of the above, I am satisfied that the procurement processes of the Project in relation to the RFP have been conducted in accordance with reasonable standards of fairness, and in compliance with the process approved by the Board and published.

Signed and dated at Vancouver, July 10, 2018.



Jane Shackell, QC  
Fairness Advisor



## Vaesen, Joseph TRAN:EX

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**From:** Pilkington, Ian TRAN:EX  
**Sent:** Thursday, July 12, 2018 11:58 AM  
**To:** Maintenance Contract Procurement TRAN:EX  
**Subject:** Approval to Proceed with Price Evaluation for SA12 and SA15



Hi Joey.

I have reviewed the Lead Evaluator's reports, Due Diligence Reports and Fairness Advisor's reports for service area 12 and 15 and confirmed that the information is correct and follows our evaluation process.

Based on this information I approve proceeding with the opening of the price proposals for service areas 12 and 15.

Ian Pilkington, P.Eng.  
Director, Highways Maintenance Contract Renewal  
Ministry of Transportation and Infrastructure  
4C-940 Blanshard Street, Victoria, B.C., V8W 3E6  
ph: 250-387-7627, cell: 250-882-2877

s.17,s.21

Evaluator	Signature	Date
Joseph Vaesen		12-Jul-18
Ian Pilkington		12-Jul-18

**2018/2019 HIGHWAY MAINTENANCE AGREEMENT FOR SERVICE AREA 12  
REQUEST FOR PROPOSALS #HM-R6-SA12**

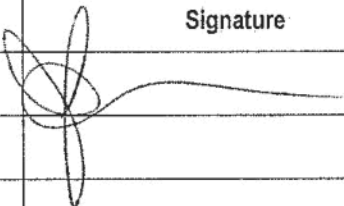
**MANDATORY CRITERIA ASSESSMENT**

		s. 17, s. 21	EMCON Services Inc	s. 17, s. 21
<b>Before/During Third Party Documents and Miscellaneous Document(s) Evaluation</b>	Proponent on Qualified Respondents List		Yes	
	Proponent not Preferred Proponent in 5 Service Areas		Yes	
	Third Party Documents and Miscellaneous Document(s) received before Closing Date and Closing Time		Yes	
	Service Proposal received before Closing Date and Closing Time		Yes	
	Price Proposal received before Closing Date and Closing Time		Yes	
	Third Party Documents and Miscellaneous Document(s) do not contain price information		Yes	
	If Joint Venture, authorized signatory is the same on all documents		N/A	
<b>Third Party Documents and Miscellaneous Document(s) acceptable</b>			Yes	
<b>Before/During Service Proposal Evaluation</b>	Service Proposal is in English		Yes	
	Service Proposal is no longer than 250 pages, excluding resumes, graphics and diagrams		Yes	
	Service Proposal does not contain price information		Yes	
<b>Service Proposal meets minimum score of 24 points</b>			Yes	

Before/During Price Proposal Evaluation	Price Proposal is in Canadian Dollars	s.17,s.21	s.17,s.21	s.17,s.21
	Evidence of Insurance Premium Quote included			
	Proposed reduction in total value of Quantified Maintenance Services, if any, is included correctly			
	Price Proposal includes prices for Unit Price Items			
	Price Proposal includes Rates for Changes to Infrastructure			

Comments:

We, the undersigned, have reviewed and evaluated the above Proponents' Proposals for compliance with the requirements of the RFP in respect of mandatory criteria and have indicated such Proposals that meet those requirements to be acceptable to the Province for further evaluation.

Evaluator	Signature	Date
Joseph Vaesen		July 12, 2013

Page 030 to/à Page 031

Withheld pursuant to/removed as

s.21;s.17

# SCHEDULE "2" TO APPENDIX C

## PRICES FOR QUANTIFIED MAINTENANCE SERVICES

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total	
Asphalt Pavement Maintenance	Overlay Patch	101300	tonne	3260	s.17,s.21		s.17,s.21	
	Overlay Patch - Isolated	101301	tonne	0				
	Overlay Patch (handwork)	101302	tonne	0				
	Overlay Patch - Isolated (handwork)	101303	tonne	0				
	Replacement Patch	101304	tonne	3120				
	Replacement Patch (handwork)	101305	tonne	0				
	Spray Patching	101306	litre	26300				
	Spray Patching - Isolated	101307	litre	0				
	Crack Sealing	101308	litre	2045				
	Crack Filling	101309	litre	90				
	Surface Treatment	graded aggregate seal	102300	m2				0
graded aggregate seal - Isolated		102301	m2	0				
sand seal		102302	m2	0				
Highway and Shoulder Grading and Re-shaping	Grading	103300	rd km	180				
	Grading (Re-shaping)	103301	rd km	360				
	Shoulder Grading	103302	sh km	130				
	Shoulder Grading (Re-shaping)	103303	sh km	0				
Dust Control and Base Stabilization	dust control	104300	litre	131200				
	Base Stabilization	104301	litre	26960				
Surface and Shoulder Graveling	surface graveling – crush	105300	m3	10500				
	surface graveling – crush - Isolated	105301	m3	0				
	surface graveling - pit run	105302	m3	960				
	surface graveling - pit run - Isolated	105303	m3	0				
	Shoulder graveling - crush	105304	m3	450				
	Shoulder graveling - crush - Isolated	105305	m3	0				
	Shoulder graveling - pit run	105306	m3	90				
	Shoulder graveling - pit run - Isolated	105307	m3	0				
Road Base Maintenance	repair	106300	m3	LS		LS		
Surface Cleaning	remove Accumulations (barrier)	107300	lin m	18000				
	remove Accumulations (additional)	107301	sh km	73				
Cattle Guard System Maintenance	replace, new, elevation correction	109300	ea	LS		LS		
Raised Hard Surfaced Infrastructure and Safety Device Maintenance	barrier cable - replace	110300	lin m	0		LS		
	barrier cable - new	110301	lin m	LS				
	barrier concrete - replace	110302	ea	35				
	barrier concrete - new	110303	lin m	LS				
	barrier steel - replace	110304	lin m	0				
	barrier steel - new	110305	lin m	LS				
	traffic island - replace	110306	m2	LS		LS		
	traffic island - new	110307	m2	LS		LS		

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total
	curb asphalt - replace	110308	lin m	90	s.17,s.21		s.17,s.21
	curb asphalt - new	110309	lin m	0			
	curb concrete - replace	110310	lin m	32			
	curb concrete - new	110311	lin m	0			
	impact attenuator - replace, new	110312	ea	LS		LS	
	anti-glare - replace, new	110313	ea	LS		LS	
	sidewalks - replace	110314	ea	LS		LS	
	pedestrian paths - replace, new	110315	ea	LS		LS	
	spillways - replace, new	110316	ea	LS		LS	
Ditch Maintenance	0 - 30 kms one way haul distance	201300	lin m	62900			
	31 - 60 kms one way haul distance	201301	lin m	14400			
	61 - 100 kms one way haul distance	201302	lin m	0			
	new construction, repair embankments/ back slopes, widen/deepen collection areas	201303	lin m	LS		LS	
	remove localized minor rock	201304	m3	LS		LS	
	side casting	201305	lin m	7640			
Drainage Appliance Maintenance	removal of Debris/obstructions	202301	ea	LS		LS	
	culvert install (to 400mm) max. 2m height of cover	202302	lin m	42			
	culvert install (401mm to 600mm) max. 2m height of cover	202303	lin m	95			
	culvert install (601mm to 1200mm) max. 2m height of cover	202304	lin m	20			
	culvert install (to 2999mm)	202305	lin m	LS		LS	
	Flume install (to 2999mm)	202306	lin m	LS		LS	
	re-setting, repair, replace and new other Drainage Appliances	202307	ea	LS		LS	
	boring, auguring, pushing, installing inserts	202308	lin m	LS		LS	
	install Rip-rap or other suitable material	202309	m3	LS		LS	
	Trash Racks - clean	202310	m3	27			
	Trash Racks - repair	202311	ea	LS		LS	
	Trash Racks - replace, new	202312	ea	LS		LS	
	catch basin install (metal, concrete)	202313	ea	LS		LS	
Shore, Bank and Watercourse Maintenance	removal of Debris/obstructions, provide catchment areas	203300	m3	LS		LS	
	install Rip-rap or other suitable material	203301	m3	LS		LS	
Vegetation Control	cut vegetation (Shoulder top and 0 - 1.8m)	401300	sh km	1050			
	cut vegetation (Rest Areas/other specified locations)	401301	m2	26000			
	cut vegetation (Raised Hard Surfaced Infrastructure)	401302	m2	90			
Brush, Tree and Danger Tree Removal	brushing (machine)	402300	sh km	280			
	brushing (hand cutting)	402301	m2	LS		LS	

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total
	brushing (hand cutting individual tree), Danger Tree removal, overhanging trees/limbs	402302	ea	LS	s.17,s.2 1	LS	s.17,s.2 1
Fence Maintenance	Schedule 1 and 2 fences - temporary repairs	405300	lin m	0			
	Schedule 1 and 2 fences - permanent repairs	405301	lin m	0			
	Specialty Fences - temporary and permanent repair, new	405302	lin m	LS		LS	
Roadside Catchment Appurtenances Maintenance	repair, replace	406300	ea	LS		LS	
	crack seal/repair	406301	litre	LS		LS	
	rock/sediment/Debris removal	406302	m3	LS		LS	
	relief well - clean	406303	ea	LS		LS	
Sign System Maintenance	delineator system install - plastic post/ fibreglass post, telspar, u channel post, Shoulder mount	501300	ea	LS		LS	
	delineator install - barrier, top mount or side mount, W055, shoulder mount	501301	ea	LS		LS	
	1 post Sign System install (< 1.09 m2)	501302	ea	55			
	1 post Sign System install (> 1.09 m2)	501303	ea	45			
	2 post Sign System install (< 3.2 m2)	501304	ea	8			
	2 post Sign System install (> 3.2 m2)	501305	ea	2			
	3 post Sign System install - (< 10.1 m2)	501306	ea	0			
	3 post Sign System install - (> 10.1 m2)	501307	ea	0			
	Sign install (< 1.09 m2)	501308	ea	210			
	Sign install (1.1 m2 to 3.2 m2)	501309	ea	9			
	Sign install (3.3 m2 to 7.1 m2)	501310	ea	1			
	Sign install (7.2 m2 to 10.1 m2)	501311	ea	0			
	Sign install (> 10.1 m2)	501312	ea	0			
	Sign Face Overlay install (< 1.09 m2)	501313	ea	5			
	Sign Face Overlay install (1.1 m2 to 3.2 m2)	501314	ea	2			
	Sign Face Overlay install (3.3 m2 to 7.1 m2)	501315	ea	2			
	Sign Face Overlay install (7.2 m2 to 10.1 m2)	501316	ea	0			
	Sign Face Overlay install (> 10.1 m2)	501317	ea	0			
Temporary Pavement Markings and Eradication	restore or new temporary pavement markings	502300	line km	90			
	restore or new temporary pavement markings	502301	m2	18			
	eradicate temporary pavement markings	502302	line km	0			
	eradicate temporary pavement markings	502303	m2	0			
	eradicate permanent pavement markings	502304	line km	0			
	eradicate permanent pavement markings	502305	m2	0			
Bridge Deck Maintenance	timber Re-decking (Minor)	601300	m2	42			



Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total
	timber Re-decking (Major)	601301	m2	27	s.17,s.21		s.17,s.21
	linseed oil/mineral spirit treatment	601302	m2	35950			
	concrete repair	601303	m3	5			
	crack seal	601304	lin m	3500			
	crack repair	601305	lin m	540			
Bridge Joint Maintenance	Bridge Joint Armour and Joint seal replace	604300	lin m	22			
Bridge Bearing Maintenance	Bridge Bearing and components replace	605300	ea	LS		LS	
Structure Minor Coating	steel/timber surfaces, steel/timber rail systems	607300	m2	LS		LS	
Concrete Structure Maintenance	concrete repair, crack seal/repair	608300	m3	LS		LS	
Bridge Piling Maintenance	replace	610300	ea	LS		LS	
Retaining Wall Maintenance	Retaining Wall and components - repair, replace	611300	m2	LS		LS	
Timber Truss Bridge Maintenance	Truss Rods, Lateral Rods, End Posts, Main Braces, Counter Braces, Floor Beams, Corbels - replace	613300	ea	LS		LS	
	Truss Rods or Camber - adjust	613301	ea	LS		LS	
Timber and Log Bridge Maintenance	components - replace	614300	ea	LS		LS	
LAS - Invasive Plants Management	seeding	913300	m2	LS		LS	
LAS - Pavement Surface Reflectors	replace, new	917300	ea	LS		LS	
LAS - Highway Crossing Infrastructure	surface repairs	911300	m3	LS		LS	
LAS - Wildlife Exclusion System Maintenance	repairs	925300	ea	LS		LS	
	brush removal	925301	m2	0		LS	
	height restoration	925302	ea	LS		LS	
LAS - Sound Wall Maintenance	Sound Wall and components - repair, replace	923300	m2	LS		LS	
Miscellaneous	Other Quantified Maintenance Services	999300		LS		LS	
TOTAL VALUE OF UNIT PRICE ITEMS							
MINISTRY VALUATION OF TOTAL LUMP SUM VALUE							
TOTAL VALUE OF QUANTIFIED MAINTENANCE SERVICES							

Formula:

$$A \times B \times C = D$$

A

B

C

D

SUMMER Classifications and Daily Change Rates				
Classification	Number of Lane KM	Number of Days (April 1 to October 31)	Summer Highway Daily Change Rate (per Lane KM)	Total
1	197.8	214	s.17,s.21	s.17,s.21
2	273.9			
3	484.5			
4	29.8			
5	157.5			
6	337.7			
7	35.0			
Sub-total				

WINTER Classifications and Daily Change Rates			
Classification	Number of Lane KM	Number of Days (November 1 to March 31)	Winter Highway Daily Change Rate (per Lane KM)
A	326.1	151	s.17,s.21
B	621.7		
C	250.5		
D	269.8		
E	64.3		
Sub-total			

BRIDGE DECK Daily Change Rate			
Classification	Number of m2	Number of Days	Bride Deck Daily Change Rate (per m2)
All (including sidewalks)	51,420	365	s.17,s.21
Sub-total			

REST AREA Classifications and Daily Change Rates				
Classification	Number of Rest Areas	Number of Days Open Annually	Rest Area Daily Change Rate (per day)	Total
A	0	365	s.17,s.21	s.17,s.21
B	3	184		
C	1			
	4	365		
Sub-total				s.17,s.21
GRAND TOTAL*				

\*The grand total should equal approximately 80% of the Annual Price.

**Proponent's Name:**

Emcon Services Inc.

**RFP Number:**

HM-R6-SA12

**Highway Maintenance Service Area:**

Service Area 12 – Selkirk

**Upset Price**

s.17,s.21

1. Proposed Annual Price (equal to or less than the Upset Price of s.17,s.21)	
2. Proposed reduction in total value of Quantified Maintenance Services (if and only if the Proposed Annual Price is <b>equal</b> to the Upset Price)	
3. Insurance Premium Quote (provided as an annual insurance premium cost)	s.17,s.21
4. Prices for Unit Price Items	See Schedule 2 to this Appendix
5. Rates for Changes to Infrastructure	See Schedule 3 to this Appendix

## SCHEDULE "2" TO APPENDIX C

### PRICES FOR QUANTIFIED MAINTENANCE SERVICES

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total									
Asphalt Pavement Maintenance	Overlay Patch	101300	tonne	3260	s.17,s.21		s.17,s.21									
	Overlay Patch - Isolated	101301	tonne	0												
	Overlay Patch (handwork)	101302	tonne	0												
	Overlay Patch - Isolated (handwork)	101303	tonne	0												
	Replacement Patch	101304	tonne	3120												
	Replacement Patch (handwork)	101305	tonne	0												
	Spray Patching	101306	litre	26300												
	Spray Patching - Isolated	101307	litre	0												
	Crack Sealing	101308	litre	2045												
	Crack Filling	101309	litre	90												
Surface Treatment	graded aggregate seal	102300	m2	0												
	graded aggregate seal - Isolated	102301	m2	0												
	sand seal	102302	m2	0												
Highway and Shoulder Grading and Re-shaping	Grading	103300	rd km	180												
	Grading (Re-shaping)	103301	rd km	360												
	Shoulder Grading	103302	sh km	130												
	Shoulder Grading (Re-shaping)	103303	sh km	0												
Dust Control and Base Stabilization	dust control	104300	litre	131200												
	Base Stabilization	104301	litre	26960												
Surface and Shoulder Graveling	surface graveling – crush	105300	m3	10500												
	surface graveling – crush - Isolated	105301	m3	0												
	surface graveling - pit run	105302	m3	960												
	surface graveling - pit run - Isolated	105303	m3	0												
	Shoulder graveling - crush	105304	m3	450												
	Shoulder graveling - crush - Isolated	105305	m3	0												
	Shoulder graveling - pit run	105306	m3	90												
	Shoulder graveling - pit run - Isolated	105307	m3	0												
Road Base Maintenance	repair	106300	m3	LS		LS										
Surface Cleaning	remove Accumulations (barrier)	107300	lin m	18000												
	remove Accumulations (additional)	107301	sh km	73												
Cattle Guard System Maintenance	replace, new, elevation correction	109300	ea	LS								LS				
Raised Hard Surfaced Infrastructure and Safety Device Maintenance	barrier cable - replace	110300	lin m	0												
	barrier cable - new	110301	lin m	LS												
	barrier concrete - replace	110302	ea	35												
	barrier concrete - new	110303	lin m	LS												
	barrier steel - replace	110304	lin m	0												
	barrier steel - new	110305	lin m	LS												
	traffic island - replace	110306	m2	LS												
	traffic island - new	110307	m2	LS												
	curb asphalt - replace	110308	lin m	90												

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total
	curb asphalt - new	110309	lin m	0	s. 17, s. 21		s. 17, s. 21
	curb concrete - replace	110310	lin m	32			
	curb concrete - new	110311	lin m	0			
	impact attenuator - replace, new	110312	ea	LS		LS	
	anti-glare - replace, new	110313	ea	LS		LS	
	sidewalks - replace	110314	ea	LS		LS	
	pedestrian paths - replace, new	110315	ea	LS		LS	
	spillways - replace, new	110316	ea	LS		LS	
Ditch Maintenance	0 - 30 kms one way haul distance	201300	lin m	62900			
	31 - 60 kms one way haul distance	201301	lin m	14400			
	61 - 100 kms one way haul distance	201302	lin m	0			
	new construction, repair embankments/ back slopes, widen/deepen collection areas	201303	lin m	LS		LS	
	remove localized minor rock	201304	m3	LS		LS	
	side casting	201305	lin m	7640			
Drainage Appliance Maintenance	removal of Debris/obstructions	202301	ea	LS		LS	
	culvert install (to 400mm) max. 2m height of cover	202302	lin m	42			
	culvert install (401mm to 600mm) max. 2m height of cover	202303	lin m	95			
	culvert install (601mm to 1200mm) max. 2m height of cover	202304	lin m	20			
	culvert install (to 2999mm)	202305	lin m	LS		LS	
	Flume install (to 2999mm)	202306	lin m	LS		LS	
	re-setting, repair, replace and new other Drainage Appliances	202307	ea	LS		LS	
	boring, auguring, pushing, installing inserts	202308	lin m	LS		LS	
	install Rip-rap or other suitable material	202309	m3	LS		LS	
	Trash Racks - clean	202310	m3	27			
	Trash Racks - repair	202311	ea	LS		LS	
	Trash Racks - replace, new	202312	ea	LS		LS	
	catch basin install (metal, concrete)	202313	ea	LS		LS	
Shore, Bank and Watercourse Maintenance	removal of Debris/obstructions, provide catchment areas	203300	m3	LS		LS	
	install Rip-rap or other suitable material	203301	m3	LS		LS	
Vegetation Control	cut vegetation (Shoulder top and 0 - 1.8m)	401300	sh km	1050			
	cut vegetation (Rest Areas/other specified locations)	401301	m2	26000			
	cut vegetation (Raised Hard Surfaced Infrastructure)	401302	m2	90			
Brush, Tree and Danger Tree Removal	brushing (machine)	402300	sh km	280			
	brushing (hand cutting)	402301	m2	LS		LS	
	brushing (hand cutting individual tree), Danger Tree removal, overhanging trees/limbs	402302	ea	LS		LS	

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total
Fence Maintenance	Schedule 1 and 2 fences - temporary repairs	405300	lin m	0	s.17,s.21		s.17,s.21
	Schedule 1 and 2 fences - permanent repairs	405301	lin m	0			
	Specialty Fences - temporary and permanent repair, new	405302	lin m	LS		LS	
Roadside Catchment Appurtenances Maintenance	repair, replace	406300	ea	LS		LS	
	crack seal/repair	406301	litre	LS		LS	
	rock/sediment/Debris removal	406302	m3	LS		LS	
	relief well - clean	406303	ea	LS		LS	
Sign System Maintenance	delineator system install - plastic post/ fibreglass post, telspar, u channel post, Shoulder mount	501300	ea	LS		LS	
	delineator install - barrier, top mount or side mount, W055, shoulder mount	501301	ea	LS		LS	
	1 post Sign System install (< 1.09 m2)	501302	ea	55			
	1 post Sign System install (> 1.09 m2)	501303	ea	45			
	2 post Sign System install (< 3.2 m2)	501304	ea	8			
	2 post Sign System install (> 3.2 m2)	501305	ea	2			
	3 post Sign System install (< 10.1 m2)	501306	ea	0			
	3 post Sign System install (> 10.1 m2)	501307	ea	0			
	Sign install (< 1.09 m2)	501308	ea	210			
	Sign install (1.1 m2 to 3.2 m2)	501309	ea	9			
	Sign install (3.3 m2 to 7.1 m2)	501310	ea	1			
	Sign install (7.2 m2 to 10.1 m2)	501311	ea	0			
	Sign install (> 10.1 m2)	501312	ea	0			
	Sign Face Overlay install (< 1.09 m2)	501313	ea	5			
	Sign Face Overlay install (1.1 m2 to 3.2 m2)	501314	ea	2			
	Sign Face Overlay install (3.3 m2 to 7.1 m2)	501315	ea	2			
	Sign Face Overlay install (7.2 m2 to 10.1 m2)	501316	ea	0			
	Sign Face Overlay install (> 10.1 m2)	501317	ea	0			
Temporary Pavement Markings and Eradication	restore or new temporary pavement markings	502300	line km	90			
	restore or new temporary pavement markings	502301	m2	18			
	eradicate temporary pavement markings	502302	line km	0			
	eradicate temporary pavement markings	502303	m2	0			
	eradicate permanent pavement markings	502304	line km	0			
	eradicate permanent pavement markings	502305	m2	0			
Bridge Deck Maintenance	timber Re-decking (Minor)	601300	m2	42			
	timber Re-decking (Major)	601301	m2	27			
	linseed oil/mineral spirit treatment	601302	m2	35950			
	concrete repair	601303	m3	5			
	crack seal	601304	lin m	3500			
	crack repair	601305	lin m	540			

Maintenance Specification	Quantified Maintenance Services	Activity Number	Unit of Measure	Quantities for Unit Price Items	Unit Price	Lump Sum Value	Total
Bridge Joint Maintenance	Bridge Joint Armour and Joint seal replace	604300	lin m	22	s.17,s.21		s.17,s.21
Bridge Bearing Maintenance	Bridge Bearing and components replace	605300	ea	LS		LS	
Structure Minor Coating	steel/timber surfaces, steel/timber rail systems	607300	m2	LS		LS	
Concrete Structure Maintenance	concrete repair, crack seal/repair	608300	m3	LS		LS	
Bridge Piling Maintenance	replace	610300	ea	LS		LS	
Retaining Wall Maintenance	Retaining Wall and components - repair, replace	611300	m2	LS		LS	
Timber Truss Bridge Maintenance	Truss Rods, Lateral Rods, End Posts, Main Braces, Counter Braces, Floor Beams, Corbels - replace	613300	ea	LS		LS	
	Truss Rods or Camber - adjust	613301	ea	LS		LS	
Timber and Log Bridge Maintenance	components - replace	614300	ea	LS		LS	
LAS - Invasive Plants Management	seeding	913300	m2	LS		LS	
LAS - Pavement Surface Reflectors	replace, new	917300	ea	LS		LS	
LAS - Highway Crossing Infrastructure	surface repairs	911300	m3	LS		LS	
LAS - Wildlife Exclusion System Maintenance	repairs	925300	ea	LS		LS	
	brush removal	925301	m2	0			
	height restoration	925302	ea	LS		LS	
LAS - Sound Wall Maintenance	Sound Wall and components - repair, replace	923300	m2	LS		LS	
Miscellaneous	Other Quantified Maintenance Services	999300		LS		LS	
TOTAL VALUE OF UNIT PRICE ITEMS							
MINISTRY VALUATION OF TOTAL LUMP SUM VALUE							
TOTAL VALUE OF QUANTIFIED MAINTENANCE SERVICES							



Formula:

$$A \times B \times C = D$$

A

B

C

D

SUMMER Classifications and Daily Change Rates				
Classification	Number of Lane KM	Number of Days (April 1 to October 31)	Summer Highway Daily Change Rate (per Lane KM)	Total
1	197.8	214	s.17,s.21	s.17,s.21
2	273.9			
3	484.5			
4	29.8			
5	157.5			
6	337.7			
7	35.0			
Sub-total				

WINTER Classifications and Daily Change Rates			
Classification	Number of Lane KM	Number of Days (November 1 to March 31)	Winter Highway Daily Change Rate (per Lane KM)
A	326.1	151	s.17,s.21
B	621.7		
C	250.5		
D	269.8		
E	64.3		
Sub-total			

BRIDGE DECK Daily Change Rate			
Classification	Number of m2	Number of Days	Bride Deck Daily Change Rate (per m2)
All (including sidewalks)	51,420	365	s.17,s.21
Sub-total			

REST AREA Classifications and Daily Change Rates				
Classification	Number of Rest Areas	Number of Days Open Annually	Rest Area Daily Change Rate (per day)	Total
A	0	365	s.17,s.21	s.17,s.21
B	3	184		
C	1			
	4	365		
Sub-total				s.17,s.21
GRAND TOTAL*				

\*The grand total should equal approximately 80% of the Annual Price.

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