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RETOURNER LES SUBMISSION À :
Parks Canada Agency Bid Receiving Unit
National Contracting Services
220 – 4th Avenue S.E., Suite 720

**RÉVISION 002 INVITATION À
SOUMISSIONNER
DEMANDE D'OFFRES À
COMMANDES**

The referenced document is hereby revised;
unless otherwise indicated, all other terms and
conditions of the offer remain the same.

Ce document est par la présente révisé; sauf
indication contraire, les modalités de l'offre
demeurent les mêmes.

Issuing Office - Bureau de distribution :
Parks Canada Agency
National Contracting Services
220 – 4th Avenue S.E., Suite 720
Calgary, AB T2G 4X3

Title - Sujet : Red Rock Parkway Catch Fence – Waterton Lakes National Park	
Solicitation No. - N° de l'invitation : 5P420-19-0280/A	Date : October 10, 2019
Amendment No. - N° de modification : 002	
Client Reference No. - N° de référence du client : 2033-1	
GETS Reference No. N° de reference de SEAG : PW-19-00890485	

Solicitation Closes - L'invitation prend fin : At - à : 2:00 PM On - le : October 16, 2019	Time Zone - Fuseau horaire MDT
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F.O.B. - F.A.B. : Plant - Usine : <input type="checkbox"/> Destination : <input checked="" type="checkbox"/> Other - Autre : <input type="checkbox"/>		
Address Enquiries to - Adresser toutes demande de renseignements à : Brinthan Balakumar		
Telephone No. - N° de telephone : 587-832-1894	Fax No. -N° de télécopieur : (866) 246-6893	Email Address – Courriel : Brinthan.balakumar@canada.ca
Destination of Goods, Services, and Construction - Destination des biens, services, et construction : See Herein		

TO BE COMPLETED BY THE BIDDER - À REMPLIR PAR LE SOUMISSIONNAIRE

Vendor/ Firm Name - Nom du fournisseur/ de l'entrepreneur :	
Address - Adresse :	
Telephone No. - N° de telephone :	Fax No. - N° de télécopieur :
Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée a signer au nom du fournisseur/ de l'entrepreneur	
Signature :	Date :

Solicitation No. - N° de l'invitation :
5P420-19-0280/A

Amd. No. - N° de la modif. :
002

Contracting Authority - Autorité contractante :
Brinthan Balakumar

Client Ref. No. - N° de réf. du client :
2033-1

Title – Titre :
Red Rock Parkway Catch Fence – Waterton Lakes National Park

Amendment 002

This amendment is raised to:

- A. Extend the solicitation end date.
- B. Answer questions from bidders.
- C. Make revision to the tender package.

A. Solicitation End Date

The closing date for tender 5P420-19-0280/A is extended from October 11, 2019 to October 16, 2019.

B. Questions and Answers

Q1) Can you please provide guidelines for the required traffic controls?

A1) Please Refer to Section 01 11 00 Contractor Use of Premises Clause 1.9.2

“RRP will be closed to the public for the duration of the project. The Contractor shall be required to accommodate PCA and other contractor vehicles’ safe passage.”

Signs or barricades are necessary if one or both lanes are closed. It is anticipated that one lane will be closed for Contractor vehicles and equipment. If both lanes are closed the Contractor must allow passage of other vehicles and equipment on the road.

Q2) My supplier stated and they are unable to provide a 2M fence and achieve the 500KN rating. Are we able to use an alternative such as a 3M fence?

A2) No, the 2.0m height was specifically requested by Parks Canada.

Q3) Also, we appear to be prohibited from using any form of machinery on the slope per section 01 14 00 1.4.9. In order to drill the lateral anchors for the post tie backs, a drill rig would be needed, can we get a relaxation on this requirement and be required to rehabilitate the slope as directed by PCA staff?

A3) No, this requirement was specified by Parks Canada as rehabilitation of the slope is not allowable.

Q4) Is it suitable to design the ground and lateral anchors using hollow bar. The hollow bar would be centralized inside a grout column with ~25mm grout cover?

A4) Yes.

Q5) Is post tensioning required for the anchors?

A5) It would depend on the fence supplier’s requirements.

Q6) Does the early completion incentive date (November 29, 2019) still apply as the work start date will not be achievable?

A6) The early completion incentive date has been adjusted to December 13, 2019.

Q7) Do the anchors for the fence foundations need to be designed and sealed by a professional engineer registered in Alberta?

A7) Yes, the anchors for the fence foundations need to be designed and sealed by a professional engineer registered in Alberta.

Q8) Are the specific loads to be used for the foundation and anchorage design to be taken from the MEL Etag 27 certification of the CE marked 500 kJ system proposed?

A8) The anchor loads shall be as provided by the fence supplier for the fence meeting the requirements of Section 32 31 32 Rock Catch Fence.

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Q9) What factor of safety should be applied to specific loads when carrying out the design of the anchors?

A9) A minimum factor of safety of 2 shall be applied to all loads carried by the anchors.

Q10) Section 31 23 23 Ground Anchors states to assume an average ultimate grout-ground bond strength of 0.14 MPa and that it is subject to change. The risk here is that we will not know the expected ground condition in enough detail before making a practical design.

A10) The 0.14 MPa grout-ground bond strength should be considered a conservative value.

Q11) Can Parks Canada do an anchor test before we issue an RFC (Ready for Construction) design?

A11) The Contractor's design basis and parameters shall be submitted prior to mobilization as part of the Design Package and shall form the basis for any variation from the tender assumptions. The pre-mobilization submitted design package will also form the basis for any change order associated with the anchors.

Q12) Would an extension be issued if there was a design change due to the anchor tests?

A12) The Contract will end as per Specification Section 01 11 00 Summary of Work Part 1 Clause 1.8.4.

Q13) If there is a design change due to the "on-site" anchor test, what would be the resulting action?

A13) See Answer 11.

Q14) Would a change order be issued to cover the costs of additional time and materials If required

A14) See Answer 11.

Q15) Can we use the following wheel or tire based pieces of equipment to do the drilling and excavating for micro piles and posts?

- A) A 560 Case "Rubber-Tired" Case Backhoe to dig the post holes for soil anchor installation
- B) Pacific Blasting's custom "Buggy" Drill

A15) A) Any traction powered equipment (e.g. driven wheels or tracks) shall not be permitted on the slope. Tracked or wheeled equipment may be placed on the asphalt.

B) This is positioned using an air powered winch. It should cause minimal disturbance to the slope and if approved by the ESO should be allowed for the project.

Q16) Clause 3.2.2 of Section 31 23 23 of the technical specification states that all anchors must be installed in the presence of the Engineering Representative. I am curious if the Engineering Representative in this case is the engineer responsible for anchor design, or is this a reference to the departmental representative. If so, is there any leniency on this requirement provided sufficient documentation by the contractor? This would require a significant site presence by the engineer or their representative.

A16) The Contractor's Quality Control program and results shall be signed off and sealed by a Professional Engineer registered in Alberta. The Departmental Representative will be conducting spot checks of the Contractor's Quality Control program as per the Specifications. The anchors shall be installed to the satisfaction of the Contractor's Geotechnical Engineer. The presence of the Contractor's Geotechnical Engineer on site during installation is at the discretion of the Contractor's Geotechnical Engineer; however the installation of the anchor are required to be signed off and sealed by a professional engineer registered in Alberta. The site presence shall be discussed between the Contractor and their Geotechnical Engineer and what the Geotechnical Engineer requires for Project Sign Off. The Geotechnical Engineer may appoint a delegate to supervise the work in the Geotechnical Engineer's absence.

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Q17) In addition, are record drawings or any assurance documents required from the contractor's engineer? There is only reference to record drawings for the fence installation.

A17) Yes, the anchor design for the fence foundations need to be designed and sealed by a professional engineer registered in Alberta and provided as part of the pre-construction contractor submittals.

Q18) Can we use a "spider" excavator above the gabion wall?

A18) Any traction powered equipment (e.g. driven wheels or tracks) shall not be permitted on the slope. Tracked or wheeled equipment may be placed on the asphalt.

C. Tender Package Revisions

Specification	Page	Clause	Old Text	New Text
01 14 00	1	1.4.9	All equipment shall work from road level. No tracked vehicles or machinery will be permitted to work or travel along the vegetated soil slope above RRP	All traction powered equipment shall work from road level. No traction powered equipment, driven wheels or tracks , will be permitted to work or travel along the vegetated soil slope above RRP.
01 29 01	1	1.4.b	If the Contractor has completed the Work identified in the Contract prior to November 29, 2019 to the satisfaction of the Departmental Representative, Parks Canada will pay the Contractor an amount equal to the fee of \$10,000.00 per calendar day multiplied by the number of days the Contractor has completed the Work and is no longer occupying the site. The maximum amount payable by Parks Canada to the Contractor shall be \$50,000.00 . No allowances shall be made for days of inclement weather, equipment breakdown or any reasons outside of the Contractor's control.	If the Contractor has completed the Work identified in the Contract prior to December 13, 2019 to the satisfaction of the Departmental Representative, Parks Canada will pay the Contractor an amount equal to the fee of \$10,000.00 per calendar day multiplied by the number of days the Contractor has completed the Work and is no longer occupying the site. The maximum amount payable by Parks Canada to the Contractor shall be \$50,000.00 . No allowances shall be made for days of inclement weather, equipment breakdown or any reasons outside of the Contractor's control.
01 31 00	2	1.6.L	-	Contractor's Design Package
01 78 00	1	1.4.1.f		Anchor test results

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31 23 23	2	1.4.7	-	The length of installed ground anchors shall be measured from the ground surface to the distal end of the bar. All anchors shall have a stick up above the bearing plate as per anchor testing requirements.
31 23 23	4	3.2.2	All ground anchors installed for the installation of the Rock Fall Catch Fence shall be installed in the presence of the Engineering Representative.	The anchors shall be installed to the satisfaction of the Contractor's Geotechnical Engineer. The presence of the Contractor's Geotechnical Engineer on site during installation is at the discretion of the Contractor's Geotechnical Engineer. The site presence shall be discussed between the Contractor and their Geotechnical Engineer and what the Geotechnical Engineer requires for Project Sign Off. The Geotechnical Engineer may appoint a delegate to supervise the work in the Geotechnical Engineer's absence.
31 23 23	4	3.2.5.e		A minimum of 3 grout cubes shall be taken per day or per 15 anchors installed or whichever is the greater.
31 23 23	4	3.2.8		The Contractor's Quality Control program and Quality Assurance documents shall be signed off and sealed by a Professional Engineer registered in Alberta.
31 23 23	4	3.2.9		The Departmental Representative will be conducting spot checks of the Contractor's Quality Control program as per the Specifications.

ALL OTHER TERMS & CONDITIONS REMAIN UNCHANGED