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**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Comments - Commentaires

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Electrical & Electronics Products Division
L'Esplanade Laurier
East Tower, 4th floor,
Ottawa
Ontario
K1A 0S5

Title - Sujet INTRUSION DETECTION SYSTEM	
Solicitation No. - N° de l'invitation 21120-196517/B	Amendment No. - N° modif. 011
Client Reference No. - N° de référence du client 21120-19-2956517	Date 2019-07-17
GETS Reference No. - N° de référence de SEAG PW-\$\$HN-445-77030	
File No. - N° de dossier hn445.21120-196517	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-07-31	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
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 questions à: Ladouceur, Joanne M.	Buyer Id - Id de l'acheteur hn445
Telephone No. - N° de téléphone (613) 296-4282 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: SEE HEREIN	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX B
PURCHASE DESCRIPTION
MOBILE ROCK CRUSHER PLANT

1. SCOPE

- 1.1 **Scope.** This specification covers the requirements for a mobile rock crusher plant, consisting of a Jaw Crusher and a Cone Crusher with integrated screening unit, working together to produce various aggregates.

1.2 **Instructions**

- (a) Requirements that are identified by the word “**must**”, **must** be treated as mandatory. Deviations will not be permitted.
- (b) Requirements identified with a “will” define actions to be performed by Canada and require no action/obligation on the Contractor’s part.
- (c) Where “**must**” or “will” are not used, the information provided is for guidance only.
- (d) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **must** be supplied by the Contractor.
- (e) Where a technical certification is referred to in this Purchase Description, a copy of the certification or **Equivalent must** be supplied, when requested by the **Technical Authority**.
- (f) While the International System of Units (SI) **must** be used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the standard system for this product may be indicated. Conversion from one system of measurement to the other may not be exact.
- (g) Dimensions stated as nominal **must** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but that differ from the actual dimensions.

1.3 **Definitions**

- (a) “**Provided**” means “provided and installed”.
- (b) “**Technical Authority**” means the official responsible for the technical content of this requirement.
- (c) “**Equivalent**” means a standard, means, or component type that the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance.
- (d) “**Commercially Equipped**” means that the vehicle/equipment is provided in its standard commercial configuration with no additional government-specified requirements.

OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff
Publiée avec l'autorisation du chef d'état-major de la Défense

- (e) **“Bilingual”** means both official languages; English and French.

2. APPLICABLE DOCUMENTS

2.1 **Government Furnished Documents.** NOT APPLICABLE.

2.2 **Other Publications.** Canada will not be supplying any reference documents. Effective documents are those in effect on the date of the manufacture of the vehicle/equipment. Information on the organization is supplied below.

- (a) Hazardous Products Act
Government of Canada / Department of Justice
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>

3. REQUIREMENTS

3.1 **Standard Design**

- (a) The Rock Crusher Plant **must** be the latest model from a manufacturer who has demonstrated acceptability by selling, in North America, this type and size class of equipment for at least three (3) years.
- (b) The Rock Crusher Plant **must** include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description.
- (c) The Rock Crusher Plant **must** have engineering certification available, upon request for this application, from the original manufacturers of the major equipment, systems and assemblies.
- (d) The Rock Crusher Plant **must** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions.
- (e) The Rock Crusher Plant and accessories **must** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 **Operating Conditions**

3.2.1 **Weather.** The equipment **must** operate under weather conditions found in Canada in temperatures ranging from -15 to 40°C.

3.2.2 **Terrain.** The crushers **must** self-propel in forward and reverse directions during off-road operations (e.g. construction sites and dirt tracks).

3.3 **Safety Standards**

3.3.1 **Hazardous Materials.** The contractor **must** comply with the Hazardous Products Act of Canada with regards to the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals used in the manufacture and assembly of the product supplied.

3.4 **Performance**

- (a) *Canada will conduct rock crushing quarry operations in the high arctic, yearly from May to September. Input material will consist of blasted rock found in the northeastern part of Ellesmere Island.*
- (b) The equipment **must** be a Rock Crusher Plant consisting of the following two main components working together to produce various aggregates:
- i Tracked Jaw Crusher; and
 - ii Tracked Cone Crusher with integrated screening unit.

- (c) The published system output **must** be at least 150 tons per hour.

3.4.1 **Jaw Crusher Performance and Accessories**

- (a) The Jaw Crusher **must** be provided with a chamber feed opening width of at least 700 mm and length of at least 1000 mm.
- (b) The Jaw Crusher **must** accept feed product of at least 500 mm in diameter.
- (c) The Jaw Crusher **must** have an adjustable output setting that covers, as a minimum, the full range of dimensions between 75 and 150 mm.
- (d) The Jaw Crusher **must** be provided with a hydraulic adjust chamber.
- (e) The Jaw Crusher **must** be provided with deep tooth or super tooth or **Equivalent** jaw plates.
- (f) Hopper
- i The Jaw Crusher hopper **must** have a capacity of at least 8.5 m³.
- ii The Jaw Crusher hopper **must** have a grizzly feeder that redirects material of a nominal dimension of no more than 65 mm to the Bypass System.
- iii The material redirected to the Bypass System (bypassed material) **must** not pass through the crushing chamber.
- iv The Jaw Crusher Bypass System **must** provide the following operator selected options:
1. Redirect all bypassed material to the Output Conveyor; and
 2. Screen the bypassed material to redirect calibrated material to the Side Conveyor and the oversized bypassed material to Output Conveyor.
- v The Jaw Crusher **must** be provided with the following interchangeable Bypass System screens to direct calibrated material to the Side Conveyor:
1. Nominal 19 mm (¾ in) minus; and
 2. Nominal 38 mm (1½ in) minus.
- (g) Input Conveyor. The input conveyor speed **must** adjust automatically to maintain the product at optimum height in the jaw chamber.
- (h) Side Conveyor. The Jaw Crusher **must** be provided with a side conveyor to discharge product prior to entering the jaw chamber.
- (i) Output Conveyor. The Jaw Crusher output conveyor **must** deliver product to the cone crusher hopper.
- (j) Magnet Separator. The Jaw Crusher **must** be provided with a magnet separator on the output conveyor to remove metal contaminants.
- (k) Remote Control. The Jaw Crusher **must** be provided with a remote control.
- (l) Refueling Pump. The Jaw Crusher **must** be provided with a refueling pump.

3.4.2 **Cone Crusher Performance and Accessories**

- (a) The Cone Crusher **must** accept feed product of at least 150 mm in diameter.
- (b) The Cone Crusher **must** have an adjustable closed side setting that covers, as a minimum, the full range of dimensions between 19 mm and 35 mm.
- (c) The Cone Crusher **must** be provided with a medium coarse or **Equivalent** mantle and concave.

- (d) Input Conveyor. The input conveyor speed **must** adjust automatically to keep the chamber choke-fed.
- (e) Metal Detector. The Cone Crusher input conveyor **must** be provided with a metal detector that will stop the belt to prevent metal from entering the crushing chamber.
- (f) Remote Control. The Cone Crusher **must** be provided with a remote control.
- (g) Refueling Pump. The Cone Crusher **must** be provided with a refueling pump.
- (h) On-Board Recirculating System. The Cone Crusher **must** be provided with an on-board recirculating system to pass oversized product back to the crushing chamber.
- (i) Screening unit and Stacking Conveyors
 - i The Cone Crusher **must** be provided with an integral screening unit.
 - ii The screening unit **must** be powered by the Cone Crusher engine.
 - iii The screening unit **must** produce at least two calibrated products simultaneously.
 - iv The screening unit **must** be provided with screen sets to produce the following combinations of output aggregate:
 - 1. Nominal 19 mm (¾ in) clear and nominal 6 mm (¼ in) minus;
 - 2. Nominal 25 mm (1 in) clear and nominal 19 mm (¾ in) minus;
 - 3. Nominal 50 mm (2 in) clear and nominal 38 mm (1½ in) minus; and
 - 4. Nominal 75mm (3 in) minus.
 - v The screening unit **must** be provided with at least two stacking output conveyors.

3.5 **Air Transportability**

- (a) *The Rock Crusher Plant is to be delivered by the contractor in multiple aircraft load packages to Canadian Forces Base (CFB) Trenton, Ontario ready to be loaded on board Canadian Armed Forces (CAF) aircraft. Canada will transport the aircraft load packages from CFB Trenton to Canadian Forces Station (CFS) Alert, Nunavut. Due to the limited aircraft unloading equipment at destination, aircraft load packages are to adhere to precise configurations. Time between delivery and final assembly could be one (1) year or more.*
- (b) The contractor **must** deliver the Rock Crusher Plant in multiple aircraft load packages that can be loaded into CAF aircrafts.
- (c) The contractor **must** deliver each Rock Crusher as one 'mobile aircraft load package' and one or more 'additional aircraft load packages'.
- (d) The Contractor **must** prepare all 'aircraft load packages' for outside storage between delivery in Trenton and final assembly in CFS Alert.
- (e) The Contractor **must** provide all required instructions for outside storage as detailed in Paragraph 4.2.10.
- (f) Characteristics of 'mobile aircraft load packages'
 - i Each 'mobile aircraft load package' **must** be tracked and will be loaded on a CC177 aircraft.
 - ii In order to avoid contact with the ramp and the ground, the approach and departure angles of each 'mobile aircraft load package' **must** be at least 16 degrees.
 - iii Tracks
 - 1. Each 'mobile aircraft load package' **must** be tracked.

2. The outer track edge to outer track edge width **must** be no more than 3,098 mm.
3. The inner track edge to inner track edge width **must** be at least 1,016mm.

iv Weight

1. The maximum weight of each 'mobile aircraft load package' **must** not exceed 34,000 kg.
2. *The maximum weight that can be loaded, on tracks, on the aircraft ramp hinges is also limited by 'individual track width'.*
3. The maximum weight, in kilograms, of a 'mobile aircraft load package' **must** not exceed the result of the following equation: 'individual track width' (in mm) x 71.

v Overall Dimensions

1. Each 'mobile aircraft load package' **must** have a maximum width of no more than 5300 mm.
2. Each 'mobile aircraft load package' **must** have a maximum height of no more than 3,556 mm.
3. *The maximum size of a 'mobile aircraft load package' that can enter through a 15 degrees ramp without hitting the aircraft loading bay ceiling is a function of 'forward height', 'center of gravity' (CofG) and 'forward load projection' as depicted in figure 1 below.*

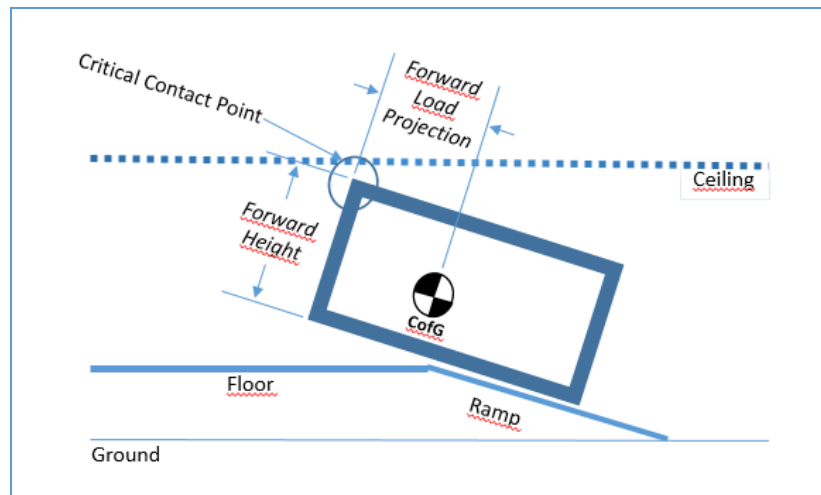


Figure 1 – Forward Height vs Load Projection

4. In order to avoid contact with the aircraft ceiling as depicted in Figure 1, the 'mobile load package' 'Forward Load Projection' (in mm) **must** not exceed : $26,744 - (6.19 \times \text{'Forward Height' (in mm)})$.

(g) Characteristics of 'additional aircraft load packages'

- i 'Additional aircraft load packages' **must** be delivered on wood pallets and will be loaded on either a C130J or CC177 aircraft, after having been installed on aircraft pallets by DND.
- ii Each 'additional aircraft load package' **must** conform to at least one of the formats described below: C130J or CC177.

iii C130J Pallet Constraints (triple aircraft pallet)

1. Each 'additional aircraft load package' **must** have a maximum pallet width of no more than 2,692 mm.
2. Each 'additional aircraft load package' **must** have a maximum length of no more than 9,906 mm.
3. Each 'additional aircraft load package' **must** have a maximum height of no more than 2,667 mm.
4. Each 'additional aircraft load package' **must** have a maximum weight of no more than 11,340 kg for a triple pallet.

iv CC177 Pallet Constraints

1. Each 'additional aircraft load package' **must** have a maximum width of no more than 2,743 mm.
2. Each 'additional aircraft load package' **must** have a maximum pallet length of no more than 2,235 mm.
3. Each 'additional aircraft load package' **must** have a maximum pallet overhang length of no more than 305 mm on each side.
4. Each 'additional aircraft load package' **must** have a maximum height of no more than 3,048 mm.
5. Each 'additional aircraft load package' **must** have a maximum weight of no more than 4,535 kg.

3.6 **Engines**

- (a) The Rock Crushers **must** be provided with diesel engines.
- (b) The engines **must** be provided with one of the following low temperature engine starting systems: ether injection, glow plug(s), intake air preheat or **Equivalent**.
- (c) The Rock Crushers **must** start at the specified temperature range without the use of external aides.

3.7 **Transmission**. Commercially equipped.

3.8 **Brake System**. Commercially equipped.

3.9 **Steering**. Commercially equipped.

3.10 **Suspension and Tracks**. The crushers **must** be propelled by a track system consisting of a single track on each side.

3.11 **Electrical System**. Commercially equipped.

3.11.1 **Work Lights**. Each Rock Crusher **must** be provided with a work light package.

3.11.2 **Amber Coloured Beacon**

- (a) An amber-coloured omni-directional beacon or **Equivalent must** be provided for each crusher.
- (b) The beacon **must** be mounted so as to provide maximum visibility over 360 degrees.
- (c) The beacon **must** be LED or **Equivalent**.

- 3.12 **On-Board Diagnostics.** Each Rock Crusher **must** be provided with an on-board diagnostic system providing both engine and crusher system diagnostics.
- 3.13 **Lubricants and Hydraulic Fluids**
- (a) The vehicles/equipment **must** be provided with original equipment manufacturer recommended synthetic non-proprietary lubricants and hydraulic fluids.
 - (b) A service label indicating the types of fluid and viscosity delivered with the vehicle/equipment **must** be provided.
- 3.14 **Labels.** All written warning and instruction labels **must** be in English and French.
- 3.15 **Equipment Delivery Condition**
- (a) The contractor **must** deliver the equipment in multiple 'aircraft load packages' as described in Paragraph 3.5 above.
 - (b) Fuel tank(s) **must** be between one eighth and one quarter full on delivery to Trenton, Ontario
- 3.16 **Final assembly and equipment commissioning**
- (a) *Canada will transport, through weekly re-supply flights, contractor Field Service Representatives (FSR(s)) from CFB Trenton, Ontario to CFS Alert, Nunavut. Canada will provide lodging and feeding to the contractor personnel in CFS Alert. Canada will provide available common tools and lifting equipment to support reassembly. The following lifting equipment, with operators, is available in CFS Alert: Tadano GR-350XL Crane; Case 821F Loader; and Sellick 10,000 lbs forklift. It is expected that the FSR team, to include re-assembly, commissioning and training personnel, travel to and from CFS Alert as a group. It is assumed that the team will not exceed 3 personnel, although more personnel will be accepted on presentation of justification. It is Canada's intent to move the aircraft load packages by sea and air from Trenton to Alert during the summer following delivery of the packages to Trenton with all packages reaching CFS Alert by October. In such a case, the FSR team would be moved by Canada to Alert in May of the following year for re-assembly, commissioning and training.*
 - (b) The contractor's FSR(s) **must** hold the appropriate security clearances prior to being deployed to CFS Alert.
 - (c) The contractor **must** supply additional tools required for reassembly and commissioning that are not available at CFS Alert. Canada will transport additional tools with the FSRs.
 - (d) The contractor's FSR(s) **must** reassemble the rock crusher plant at CFS Alert.
 - (e) The contractor's FSR(s) **must** commission and conduct initial start-up of rock crusher plant after assembly.
 - (f) The date for the travel to CFS Alert for assembly **must** be arranged with the **Technical Authority**.
4. **INTEGRATED LOGISTICS SUPPORT (ILS)**
- 4.1 **Deliverables**
- 4.1.1 **General Requirements**
- (a) ILS documents **must** be submitted to the **Technical Authority** prior to the delivery of the vehicle/equipment for each configuration/model and their accessories, for approval. ILS documents will not be returned.
 - (b) **Technical Authority** approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt.

- (c) The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**.
- (d) **Digital Documents**
- i All digital copies **must** be supplied in searchable PDF format unless stated otherwise.
 - ii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
 - iii Digital copies of manuals **must** be supplied on a CD or DVD (**USB sticks cannot be used on DND computers**).
 - iv Digital copies of other ILS documents **must** be provided by email to the TA or on CD or DVD.
 - v CD/DVD **must** be permanently and legibly marked with the equipment description and a list of contents.
- (e) **Paper Documents**. All paper copies of ILS documents delivered **must** have the same content as the digital copy approved by the **Technical Authority**.

4.1.2 **ILS Deliverables**. The following table indicates the ILS elements that the Contractor **must** deliver, including the medium (paper or digital), the expected means of delivery and the reference paragraph.

Element	Format/ Medium	Delivered to TA by E-mail for approval	Delivered to TA by mail/courier for approval	Supplied with each Vehicle/ equipment	Remarks	Reference Paragraph
Photograph and Line Drawing Package	Digital	X	-	-	JPEG	4.2.1
Data Summary	Digital	X	-	-	Microsoft Word	4.2.2
Initial Parts Kit List	Digital	X	-	-	PDF	4.2.3
Warranty Letter	Digital	X	-	-	PDF	4.2.4
	Paper	-	-	X	-	
Safety Data Sheets Package	Digital	X	-	-	PDF	4.2.5
	Paper	-	-	X	-	
Set of Manuals	Digital	-	X	X	PDF - on CD/DVD*	4.2.6
	Paper	-	-	X	-	
Initial Parts Kit	-	-	-	X	1 kit	4.2.7
Set of keys	-	-	-	X	2 sets	4.2.8
Load List	Digital	X		X	PDF	4.2.9
Aircraft Load Package Stowage Instructions	Digital	X		X	PDF	4.2.10

Note: * One CD/DVD should be used for all e-manuals covering a configuration/model and its accessories.

4.1.3 **Training deliverables**. The following table indicates the ILS Training elements that the Contractor ***must*** deliver, including the expected means of delivery and the reference paragraph.

Element	Format/ Medium	Delivered to TA by E-mail for approval	Remarks	Reference Paragraph
Course syllabus - Operator Familiarization	Digital	X	-	4.3.1
Course syllabus - Technician Familiarization	Digital	X	-	4.3.2
Operator Familiarization training	-	-	Delivery in person, at the location specified in the contract.	4.3.1
Technician Familiarization training	-	-	Delivery in person, at the location specified in the contract.	4.3.2
Proof of Operator Training Certificate	Digital	X	TA will provide template	4.3.1
Proof of Technician Training Certificate	Digital	X	TA will provide template	4.3.2

4.2 **ILS Elements Description**

4.2.1 **Photograph and Line Drawing Package**

- (a) DND requires photographs and line drawings for documentation and cataloguing purposes. The Photograph and Line Drawing Package ***must*** include:
 - i Two (2) digital colour photographs, one (1) left-front three-quarter view, and one (1) right-rear three-quarter view of each configuration/model;
 - ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment; and
 - iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle/equipment. Brochure line drawings are acceptable.
- (b) Photographs ***must*** have a plain background and be in a JPEG (Joint Photographic Experts Group) format with a resolution of at least eight (8) Mega pixels.

4.2.2 **Data Summary**

- (a) The ***Technical Authority*** will supply a bilingual Data Summary Template (in Microsoft Word format) to the Contractor.
- (b) The data summary ***must***:
 - i Use the ***Technical Authority*** provided bilingual template;
 - ii Be a separate document for each configuration/model;
 - iii Include accessories and features; and
 - iv Be delivered in Microsoft Word format.

4.2.3 **Initial Parts Kit List**

- (a) The Initial Parts Kit List **must** include:
- i A complete list of parts needed to perform preventive maintenance on the equipment for a period of two (2) years, in accordance with the OEM maintenance schedule for each engine and crusher machine.
 - ii At least two (2) complete changes of all filters and filter elements.
 - iii One (1) set of replacement Jaw Plates.
 - iv One (1) set of replacement jaw chamber cheek plates.
 - v One (1) replacement cone mantle.
 - vi One (1) replacement cone concave.
 - vii One (1) set of replacement finger plates for the Jaw Crusher grizzly feeder.
 - viii One (1) set of replacement screens for all screens provided with the Jaw and Cone Crushers.
 - ix Ten (10) replacement conveyor rollers for the Jaw Crusher.
 - x Ten (10) replacement conveyor rollers for the Cone Crusher.
 - xi At least 20,000 mm of conveyor skirting for the Jaw Crusher.
 - xii At least 20,000 mm of conveyor skirting for the Cone Crusher.
 - xiii The following details for each part listed: part description; Original Equipment Manufacturer (OEM) Part number; suggested quantity; and unit cost.

4.2.4 **Warranty Letter**

- (a) The **Technical Authority** will supply a bilingual Warranty Letter Template (in PDF format) to the Contractor.
- (b) The Warranty Letter **must**:
- i Use the **Technical Authority** provided bilingual template;
 - ii Contain a complete description of the warranty requested with the warranty terms and conditions;
 - iii Contain the complete warranty details on any system or sub system warranty that exceeds the minimum requested; and
 - iv Contain the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada.

4.2.5 **Safety Data Sheets Package**

- (a) The Safety Data Sheets Package **must** include:
- i A bilingual (or a French and an English) list of all hazardous materials used on the vehicle/equipment; and
 - ii A complete bilingual set (or a set in French and a set in English), off all the safety data sheets for all hazardous materials in the list.

4.2.6 **Set of Manuals**

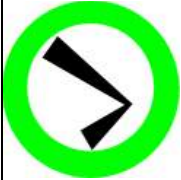
- (a) The set of manuals for each configuration/model **must** include:
- i The French and English (or bilingual) operator manual(s);
 - ii The French and English (or bilingual) maintenance (shop repair) manual(s) to include hydraulic and electrical schematics; and
 - iii The English or bilingual parts manual(s).

- (b) The set of manuals **must** include manuals (operator, maintenance (shop repair) and parts) for all major components, all attachments, accessories and features for the configuration/model supplied. Accessory manuals may be included as supplements to the vehicle manuals.
- 4.2.7 **Initial Parts Kit.** The Contractor **must** supply one (1) complete set of parts contained in the approved Initial Parts Kits List with the Rock Crusher Plant.
- 4.2.8 **Set of keys.** The Contractor **must** supply at least two (2) sets of keys with the Rock Crusher Plant.
- 4.2.9 **Load List**
 - (a) The Contractor **must** supply a load list that includes:
 - i the total number of aircraft load packages;
 - ii an itemized list of contents for each aircraft load package;
 - iii dimensions and weight of each aircraft load package; and
 - iv digital image of each aircraft load package in JPEG (Joint Photographic Experts Group) format with a resolution of at least eight (8) Mega pixels.
- 4.2.10 **Aircraft Load Package Stowage Instructions.** The Contractor **must** provide all required instructions for outside storage of the 'aircraft load packages' between delivery and final assembly.
- 4.3 **Training**
 - (a) *Training will be delivered in CFS Alert after assembly. Canada will transport contractor training personnel, through weekly supply flights, from CFB Trenton, Ontario to CFS Alert, Nunavut, and provide lodging and feeding to the contractor personnel in CFS Alert. It is expected that the contractor training personnel will travel to and from CFS Alert with the FSR team which will conduct assembly and commissioning of the rock crusher plant.*
 - (b) The contractor personnel **must** hold the appropriate security clearance prior to being deployed to CFS Alert.
- 4.3.1 **Operator Familiarization Training**
 - (a) The Contractor **must** deliver an operator familiarization course, optimized for trained operators, at the assembly destination.
 - (b) The course **must** be delivered in English.
 - (c) The instructor **must** be an OEM Factory Certified Training Provider.
 - (d) **Syllabus**
 - i The Contractor **must** provide the operator familiarization training course syllabus, in the same language as the course delivery, for review and approval by the **Technical Authority**.
 - ii The operator familiarization course **must** include safety precautions to be observed while operating and servicing the vehicle/equipment, vehicle/equipment operating characteristics, calibration, pre-operating and pre-shutdown procedures, daily/weekly operator servicing procedures and winter storage preparations.
 - iii The operator familiarization course **must** include time physically operating the crusher plant.
 - (e) The operator familiarization course **must** have a duration of at least sixteen (16) hours.
 - (f) The operator familiarization course **must** accommodate at least four (4) operators.

- (g) The date for the operator familiarization course **must** be arranged with the **Technical Authority**.
- (h) After completion of the operator familiarization course, the Contractor **must** have the “**Proof of Operator Training**” certificate signed by the senior course attendee.
- (i) The **Technical Authority** will supply the “**Proof of Operator Training**” document template in a digital format.

4.3.2 **Technician Familiarization training**

- (a) The Contractor **must** deliver a technician familiarization training course, optimized for trained technicians, at the assembly destination.
- (b) The course **must** be delivered in English.
- (c) The instructor **must** be an OEM Factory Certified Training Provider.
- (d) **Syllabus**
 - i The Contractor **must** provide the technician familiarization training course syllabus, in the same language as the course delivery, for review and approval by the **Technical Authority**.
 - ii The technician familiarization training course **must** include, but is not limited to, operation and maintenance safety precautions, overview of air, hydraulic and electrical systems (as applicable), preventive maintenance including servicing schedules, inspection and maintenance requirements, special tools and test equipment, diagnostics, troubleshooting, testing and adjustments for the vehicle/equipment including the engine, features and accessories.
- (e) The technician familiarization course **must** have a duration of at least twenty four (24) hours.
- (f) The technician familiarization course **must** accommodate at least four (4) technicians.
- (g) The date for the technician familiarization course **must** be arranged with the **Technical Authority**.
- (h) After completion of the technician familiarization course, the Contractor **must** have the “**Proof of Technician Training**” certificate signed by the senior course attendee.
- (i) The **Technical Authority** will supply the “**Proof of Technician Training**” document template in a digital format.

**NOTICE**

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX C
TECHNICAL INFORMATION QUESTIONNAIRE
MOBILE ROCK CRUSHER PLANT

This questionnaire covers technical information, which **must** be provided for evaluation of the configuration(s) of the vehicle(s) offered.

Where the specification paragraphs below indicate “**Substantial Information**”, the “**Substantial Information**” describing completely and in detail how the requirement is met or addressed **must** be supplied for each performance requirement/specification.

Bidder is required to indicate the document name/title and page number where the **Substantial Information** can be found.

Definitions for **Equivalent** is found in the DEFINITIONS section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES ☐ NO ☐

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

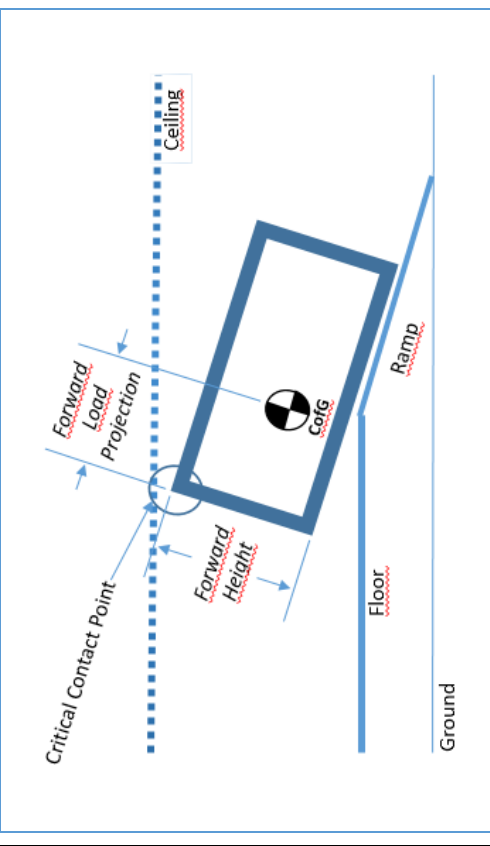
OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff
Publiée avec l'autorisation du chef d'état-major de la Défense



PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
3.4 (b)	<p>The equipment must be a rock crusher plant suitable for quarry applications consisting of the following two main components working together to produce various aggregates:</p> <ul style="list-style-type: none"> i Tracked Jaw Crusher; and ii Tracked Cone Crusher with integrated screening unit 	Jaw Crusher Make		Provide equipment brochure
		Jaw Crusher Model		
		Jaw Crusher Model Year		
		Cone Crusher Make		
		Cone Crusher Model		
		Cone Crusher Model Year		
3.4.1 (a)	The Jaw Crusher must be provided with a chamber feed opening width of at least 700 mm and length of at least 1000 mm.	Jaw Crusher chamber feed opening dimensions	mm x mm	
3.4.1 (c)	The Jaw Crusher must have an adjustable output setting that covers, as a minimum, the full range of dimensions between 75 and 150 mm.	Maximum and minimum jaw settings	mm x mm	
3.4.1 (f)	The Jaw Crusher hopper must have a capacity of at least 8.5 m ³ .	Hopper capacity	m ³	
3.4.2 (b)	The Cone Crusher must have an adjustable closed side setting that covers, as a minimum, the full range of dimensions between 19 mm and 35 mm.	Maximum and minimum close side settings	mm max mm min	
3.4.2 (i) i	The Cone Crusher must be provided with an integral screening unit.	Proof of screening unit	N/A	
3.4.2 (i) iii	The screening unit must produce at least two calibrated products simultaneously.	Proof of at least two screening decks/conveyors	N/A	

3.5 (f)	<u>Air Transportability</u> ii. In order to avoid contact with the ramp and the ground, the approach and departure angles of each 'mobile aircraft load package' must be at least 16 degrees.	Jaw Crusher Approach angle	degrees	
		Jaw Crusher Departure Angle	degrees	
		Cone Crusher Approach angle	degrees	
		Cone Crusher Departure Angle	degrees	
	iv. 1. The maximum weight of each 'mobile aircraft load package' must not exceed 34,000 kg.	Estimated weight of Jaw Crusher mobile aircraft load package	kg	
		Estimated weight of Cone Crusher mobile aircraft load package	kg	
	iv. 2. <i>The maximum weight that can be loaded, on tracks, on the aircraft ramp hinges is a function of 'individual track width'.</i> iv. 3. The maximum weight, in kilograms, of a 'mobile aircraft load package' must not exceed the result of the following equation: 'individual track width' (in mm) x 71.	Individual track width Jaw Crusher	mm	
		Individual track width Cone Crusher	mm	

	<p>v. 4. In order to avoid contact with the aircraft ceiling as depicted in Figure 1, the 'mobile load package' 'Forward Load Projection (in mm)' must not exceed : 26,744 – (6.19 x 'Forward Height' (in mm)).</p>  <p>Figure 1 – Forward Height vs Load Projection</p>	Estimated Forward Height of Jaw Crusher mobile aircraft load package	mm	
		Estimated Forward Load Projection distance of Jaw Crusher mobile aircraft load package	mm	
		Estimated Forward Height of Cone Crusher mobile aircraft load package	mm	
		Estimated Forward Load Projection distance of Cone Crusher mobile aircraft load package	mm	

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- a) "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.



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None

SECURITY REQUIREMENTS CHECK LIST (SRCL)

LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE			
1. Originating Government Department or Organization Ministère ou organisme gouvernemental d'origine		2. Branch or Directorate / Direction générale ou Direction	
DND		DSVPM	
3. a) Subcontract Number / Numéro du contrat de sous-traitance		3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
N/A		N/A	
4. Brief Description of Work / Brève description du travail			
RCAF SC19806, Rock Crushing Plant for CFS Alert. Contractor personnel will be required to complete final assembly, commissioning and training at CFS Alert.			
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?			
✓ No <input type="checkbox"/> Yes Non Oui			
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?			
✓ No <input type="checkbox"/> Yes Non Oui			
6. Indicate the type of access required / Indiquer le type d'accès requis			
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)			
✓ No <input type="checkbox"/> Yes Non Oui			
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.			
No <input checked="" type="checkbox"/> Yes Non Oui			
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?			
✓ No <input type="checkbox"/> Yes Non Oui			
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès			
Canada	NATO / OTAN	Foreign / Étranger	
7. b) Release restrictions / Restrictions relatives à la diffusion			
No release restrictions Aucune restriction relative à la diffusion	All NATO countries Tous les pays de l'OTAN	No release restrictions Aucune restriction relative à la diffusion	
Not releasable À ne pas diffuser			
Restricted to: / Limité à :	Restricted to: / Limité à :	Restricted to: / Limité à :	
Specify country(ies): / Préciser le(s) pays :	Specify country(ies): / Préciser le(s) pays :	Specify country(ies): / Préciser le(s) pays :	
7. c) Level of information / Niveau d'information			
PROTECTED A PROTÉGÉ A	NATO UNCLASSIFIED NATO NON CLASSIFIÉ	PROTECTED A PROTÉGÉ A	
PROTECTED B PROTÉGÉ B	NATO RESTRICTED NATO DIFFUSION RESTREINTE	PROTECTED B PROTÉGÉ B	
PROTECTED C PROTÉGÉ C	NATO CONFIDENTIAL NATO CONFIDENTIEL	PROTECTED C PROTÉGÉ C	
CONFIDENTIAL CONFIDENTIEL	NATO SECRET NATO SECRET	CONFIDENTIAL CONFIDENTIEL	
SECRET SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	SECRET SECRET	
TOP SECRET TRÈS SECRET		TOP SECRET TRÈS SECRET	
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT)		TOP SECRET (SIGINT) TRÈS SECRET (SIGINT)	



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PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No Yes
Non Oui
- If Yes, indicate the level of sensitivity:
Dans l'affirmative, indiquer le niveau de sensibilité :
9. Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No Yes
Non Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

<input checked="" type="checkbox"/>	RELIABILITY STATUS COTE DE FIABILITÉ	CONFIDENTIAL CONFIDENTIEL	SECRET SECRET	TOP SECRET TRÈS SECRET
	TOP SECRET- SIGINT TRÈS SECRET - SIGINT	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET
	SITE ACCESS ACCÈS AUX EMPLACEMENTS			

Special comments:

Commentaires spéciaux :

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☒ No Yes
Non Oui
- If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No Yes
Non Oui

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☒ No Yes
Non Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No Yes
Non Oui

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ No Yes
Non Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No Yes
Non Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No Yes
Non Oui



PART C - (continued) / PARTIE C - (suite)

For users completing the form **manually** use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire **manuellement** doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form **online** (via the Internet), the summary chart is automatically populated by your responses to previous questions.

Dans le cas des utilisateurs qui remplissent le formulaire **en ligne** (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens Production																
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No Yes
Non Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No Yes
Non Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



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None

PART D - AUTHORIZATION / PARTIE D - AUTORISATION

13. Organization Project Authority / Chargé de projet de l'organisme

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature	BEAULIEU, CHRISTIAN 355 Digitally signed by BEAULIEU, CHRISTIAN 355 Date: 2018.12.17 13:40:46 -05'00'
Christian Beaulieu	DSVPM 4-3		
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date
819-939-6575	819-994-9819	christian.beaulieu4@forces.gc.ca	Included in Digital Stamp

14. Organization Security Authority / Responsable de la sécurité de l'organisme

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature	
MAURICE RENAUD	SENIOR Security Analyst		
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date
(613) 996-0285		maurice.renaud@forces.gc.ca	17/01/19

15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached? Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?	No Non	Yes Oui
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16. Procurement Officer / Agent d'approvisionnement

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature	
Sylvie Gratton	DLP 5-3-4-1		
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date
819-939-6475		sylvie.gratton@forces.gc.ca	14/01/2019 Included in Digital Stamp

17. Contracting Security Authority / Autorité contractante en matière de sécurité

Name (print) - Nom (en lettres moulées)	Title - Titre	Signature	Farrell, Anik Digitally signed by Farrell, Anik Date: 2019.01.21 14:14:33 -05'00'
Telephone No. - N° de téléphone	Facsimile No. - N° de télécopieur	E-mail address - Adresse courriel	Date
			Included in Digital Stamp