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Public Works and Government Services / Travaux publics et services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3
Bid Fax: (613) 545-8067

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

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Raison sociale et adresse du fournisseur/de l'entrepreneur

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Public Works and Government Services / Travaux publics et services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3

Title - Sujet Mountain Climbing Equipment	
Solicitation No. - N° de l'invitation W107B-16AS11/A	**Amendment No. - N° modif.** 001
Client Reference No. - N° de référence du client W107B-16-AS11	**Date** 2016-02-12
GETS Reference No. - N° de référence de SEAG PW-$KIN-620-6836	
File No. - N° de dossier KIN-5-44223 (620)	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2016-02-22**	**Time Zone** **Fuseau horaire** Eastern Standard Time EST
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes **Plant-Usine:** ☐ **Destination:** ☐ **Other-Autre:** ☑	
Address Enquiries to: - Adresser toutes questions à: Porter, Marta M.	**Buyer Id - Id de l'acheteur** kin620
Telephone No. - N° de téléphone (613) 483-6084 ( )	**FAX No. - N° de FAX** (613) 545-8067
Destination - of Goods, Services, and Construction: **Destination - des biens, services et construction:**	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**
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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**	

Canada

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
1	12	**Roll of 8mm Black Accessory Cord- 100m Roll** Higher twist level in their sheaths and cores. This makes them easy to use, easy to knot and long lasting. Larger cords are best suited for prusik cords, cordelettes, ice threads, lightweight low-stretch fixing and hauling "tag" lines.	$_____	$_____
2	12	**Roll of 1" Tubular Mil-Spec Webbing, black Nylon- 300 'Roll** 1" black MIL-SPEC nylon webbing. This is a thin, non-load bearing webbing good for heavy duty tie-outs, pack loops, compression straps, carrying slings, etc	$_____	$_____
3	6	**Roll of 7mm wood land Accessory Camo Cord- 200m Roll** A very durable sheath climbing rope sand high MBS which makes them good for prusik cords, cordelettes, ice threads, lightweight low-stretch fixing and hauling "tag" lines.	$_____	$_____
4	8	**Roll of C-IV 11mm Performance Static Canyoneering Rope- 200m Roll / 35NK,** Orange tracer Tough Technora sheath guards against gritty sandstone, braided polypropylene core helps the rope float and resist the dousing. Water-resistant treatment, 2% elongation reduces stretching to keep your line from sawing over edge. Technora sheath increases cut resistance on sharp and abrasive rock. Polypropylene core floats in the water (Type: static, Diameter:9 mm, Dry Treatment: yes, Static Elongation: 2%, Sheath Construction: double-pick, Claimed Weight:(per 100 ft) 3.2 lb, Recommended Use: canyoneering, rappelling.	$_____	$_____
5	18	**Roll of 10.2 mm Glider Digi Camo Dynamic Rope by pattern- 230Ft. Roll** Dry-core rope for tactical and rescue work. Twill Pattern Technology TPT sheath weave delivers a small profile in the cross-section for improved sharp-edge abrasion resistance and reduced drag in mechanical devices. Endura DryTM treatment penetrates to the core and bonds with the rope fiber to retard moisture gain and improve abrasion resistance. Light and easy rope to pack. Construction combines durable braided sheath and shock-absorbent core for protection from fall forces. Meets or exceeds UIAA tests for falls, impact force and elongation.	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
6	1	**Kit of Multipod as follow:** The set ups as it is locations and applications the Artificial Directional System (AHD). With its ability to be set up as a tripod, bipod, and monopod, this system can be made into an A-Frame, a sideways A-Frame, a Gin Pole or many other helpful rescue and rope access configurations. The ability to form as an easel A-Frame allows the rescue team to use is versatile third leg to set a high directions in a multitude of situations. High lines and tracking line offsets are easy. The ability to place pulleys directly into the Head Set with quick-pins, eliminates the use of carabiners and adds headspace and work clearance. Built with extra attachment points. Works well in rope access situations where multiple lines will be in use. Raptor and Flat feet bases are included for steadfast footing on varying terrain. **Multipod Range Features:** Range Weight: 100 lb (45.3 kg) CODURA® nylon Bags MBS: 36 kn (8,093 lbf) Inside Height: 9 ft (2.7 m) Height with additional legs: 12 ft (3.7 m) Shipping weight: 95 lb (43 kg) **Kit to Includes:** Head Set Head Set Pulley Wheel Head Pins (4) Head Backpack Inner Legs (3) Outer Legs (7) Leg Pins (11) Leg Bags w/ Shoulder Straps (3) Flat Feet (3)		

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
		Raptor Feet (3) Foot Sleeves (2) Pin Bag Pin Flags (15) Hobble Straps (3) 8 mm Cord – 40 ft (12 m) Instruction Manual	$_____	$_____
7	1	**Ea of Titanium Split-Apart Rescue Litter** Lightweight Titanium Split-Apart nests for storage, then assembles quickly., Its nested length should be less than 45 in (114 cm), and has to come at least with four litter straps. Rescue Litter Approximate Specifications: Length: 83 in (211 cm), Width: 23 in (58 cm), Height: 7.25 in (18.5 cm), Load Rating: 11 kN (2,473 lbf)	$_____	$_____
8	16	**Ea of Edge Canvas Rope Pad: Large 60'' x 34''** Heavy duty canvas adapts to any surface to protect one or more ropes. Protect ropes against sharp and fragile rock and concrete edge.	$_____	$_____
9	3	**Ea of Hot Cutter- Rope Cutter** Electric rope cutter hot knife may be used to cut rope and braided sleeving. Fusing rope ends also helps protect your rope and prevents unraveling after cutting the rope. **Features:**Table top size, Operates on 110 volts AC, Lighted ON/OFF rocker switch, 5/16" blade. Heats up to 1200 deg F, Cuts and heat seals at the same time	$_____	$_____
10	12	**Ea of Rope Log** All-Weather Rope Log. Space is provided to document critical lifeline information and log use and inspection. It includes instructions on using a rope log and on inspecting and washing lifelines.	$_____	$_____
11	40	**Ea of PMP 2.0 Single Black.** Machined pulleys are milled from solid aluminum, The axle is machined as part of the side plate, allowing to use a flush head axle screw. These pulleys are more compact, stronger and lighter weight than conventional stamped pulleys. Range Weight: 11 oz (311 gm), Breaking Strength: 2 x 18 kN=36 kN, Working Load: 2 x 4kN=8 kN, Max Rope Diameter: 13 mm, Sheave Diameter: 2.0" (51 mm), Certification: CE, UIAA, NFPA G	$_____	$_____
12	4	**4 Ea of Kootenay Ultra Pulley**		

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
		It's a knot passing pulley use in climbing. There are two holes to separate your tag/hoist lines and to prevent spinning. Compact and lightweight, while maintaining same capacity of larger Kootenay-style pulleys. Simplifies high-strength tie-off with a single locking screw, stowable within the axle. Specifications: MBS: 39k, Working Load Limit: N6kN Single Line, Rope Diameter: 8mm - 19mm	$_____	$_____
13	4	**Ea of PAW Large Rigging Plate, NFPA Black** For easily organizing the work station and creating multi-anchor systems. Holes allow the locking sleeves of most carabiners to pass through. Made of aluminum: excellent strength-to-weight ratio. Specifications, Material(s): aluminum, Breaking strength: 36 kN, Certification(s): CE, NFPA 1983 General Use	$_____	$_____
14	60	**Ea of ATTACHE Carabiner, Screw-Lock, Green** Lightweight, compact, pear-shaped screw-lock carabiner. , the ATTACHE is designed for multiple uses related to belaying: connecting a belay system to a harness, belaying with a Munter hitch... It has an H cross section to reduce weight, as well as the Keylock system to avoid the carabiner snagging during maneuvers. Material(s): aluminum. Certification(s): CE EN 362, CE EN 12275 type H, UIAA	$_____	$_____
15	50	**Ea of William Carabiner, Screw-Lock, Black** A pear-shaped carabiner for belay stations and belaying with Munter hitch Pear shape facilitates use with the Munter hitch for single or double ropes Locking system: TRIACT-LOCK Gate opening: 24 mm	$_____	$_____
16	2	**Ea of Gri Gri 2 assisted Belay Device, grey** The belay device assis braking is designed to facilitate belay maneuvers. works equally well for lead climbing and top roping. It may be used on all 8.9 to 11 mm dynamic single ropes (optimized for 9.4 mm to 10.3 mm ropes). It's design allows for excellent descent control.	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
17	17	**Ea of PIXA 1 60 lumens, constant lighting wide uniform beam, class I div II headlamp.** Headlamp keeps the hands free for work: may be worn on the head with the headband, mounted on a helmet, or placed on the ground. Mounting plate for helmets without headband (included) A lighting mode ideal for close-range work: wide, uniform beam, lights toat least 15 meters for long hours. Constant lighting, performance that does not diminish during its entire lifetime. Reserve lighting when batteries are almost discharge. Easy to use, even when wearing gloves:rotating on/off selector dial, lamp body can be oriented to direct the light according to need. Fast and easy battery change	$_____	$_____
18	22	**Ea of FIXE pulley, fixed side plates, black** FIXE Pulley with fixed side plates. The FIXE pulley is lightweight, compact, and quick to install on the rope. It offers a good balance between weight and strength. Lightweight, compact pulley is Designed for hauling systems and deviations. Fixed side plates allow quick installation and coupling with a rope clamp **Specifications:**Size: For use with ropes of 13 mm maximum diameter. Conformity: EN 12278. Breaking Load: Breaking strength : 11 kN x 2 = 22 kN.Working load : 2.5 kN x 2 = 5 kN.	$_____	$_____
19	4	**Ea of Vulcan carabiners, Triact Lock, Black NFPA, ANSI & CSA** High-strength steel locking carabiner Very high quality steel for difficult conditions For use with heavy loads. Large size allows easier connection of multiple elements. Wide opening for connection to thick anchors. Keylock system helps prevent snagging of the carabiner during maneuvers Red indicator provides a visual warning when the carabiner is unlocked (on SCREW-LOCK version) Certification: Screw-Lock: NFPA Certified. Triact-Lock: NFPA, ANSI, & CSA Certified Item Numbers: M73SL M73SLN M73TLA M73TLN	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
20	2	**Ea of Multi-Loop Contour Gear Sling.** Metolius created the Multi Loop Gear Sling to keep your cams, stoppers, and hexes better organized for a burly trad lead. The gear loops allows you to separate gear and eliminate the bunching that occurs with single-loop slings. The Multi Loop Gear Sling saves the day for epic endurance pitches and multi-pitch trad climbs that require a huge rack.	$_____	$_____
21	4	**Ea of Beal Rope Brush,** Rope cleaner, a simple metal spiral with bristles on the inside. Fits from skinny twin ropes up to 11mm singles	$_____	$_____
22	25	**Ea of Edelrid Draco 3/8 Bolt Hanger** A bolt hanger is a bent piece of stainless steel with two holes in it. A small hole is used to attach the bolt hanger to the threaded shaft of a mechanical bolt, usually either a wedge or sleeve bolt, with a nut, which is tightened to keep the bolt hanger on the bolt shaft. The larger hole is used for clipping or attaching a carabiner to the bolt hanger, creating a solid anchor or protection point for a climber.	$_____	$_____
23	25	**Ea of Bolt 3/8" X 3"** A stainless steel expansion-type bolt for rock climbing routes. Made of 304 stainless steel. A textured expansion sleeve helps grip rock when being tightened. Embedded depth 2.5in. shear strength is 28kN, tensile strength is 26kN. (Specs are when placed in 4000psi concrete and loaded over the threads.)	$_____	$_____
24	2	**Ea of 3/8" X 6" SDS Drill Bit**. This SDS drill bit fits most power hammer drills, and hand drills. The bit life will vary according to the rock. Estimation 15 to 20 holes in granite (though the drilling will get progressively harder), more in softer rock. 2-stage bit features softer carbide on the bottom end for a better bond to the steel and more resistance to breaking. Each cutting surface now has its own channel to clear debris. For placing 3/8 wedge bolts.	$_____	$_____
25	2	**Ea of 3/8" Combination Wrench** Long-length shafts provide greater torque than standard length combination wrenches. Anti-rounding radius corners in the 12-point box end. Wrenches made from premium alloy chrome-vanadium steel. Fully polished for comfort in your hand and easy clean-up.. Nickel-chrome plated for superior rust resistance.	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
26	1	**Kit if Cordless rotary hammer drill Combihammer** Being used in claiming to installed 3/8''bolth hanger and 3/'' bolts. Professionals grade tool with a cordless rotary hammer drill and chipper. Carrying case, at least 2 x 6.0 ah, 36 volt battery required with a charger. Reverse function is required. **Applications**: Drilling electrical through penetrations. Chipping concrete for plumbing drains. Drilling for concrete application sets. Drilling hundreds of holes, one after another, for kicker plates. **Outperform**:Battery, motor and transmission designed for unmatched speed drilling into concrete. Chips like a corded tool two classes larger. Optimized electropneumatic hammering mechanism for more speed and impact energy. 6.0 ah, 36 volt battery.	$_____	$_____
27	100	**Ea of Rock Lock Screw gate Carabineer (Brown)** Largest belay and rappel locker. The carabineer features a key lock nose and is MunterHitch compatible. It's available as a screwgate or twistlock&mdashboth. Can be operated with one hand.Square. Hinge end holds belay loop securely in place. Slightly curved spine maximises gate handling Keylock. Nose prevents snagging. One hand operable	$_____	$_____
28	100	**Ea of Neutrino Non Locking (Green)** With its gate opening the Neutrino is easy to clip (even with gloved hands) and its wire gate is freeze-resistant. A deep basket holds stacks of runners and adds versatility. Created for alpinists, big-wallers and anyone who needs to keep weight at a minimum.	$_____	$_____
29	25	**Ea of Half Dome Helmet, Café color, Medium,** Designed for climbing, with an improved fit and weight savings. The Half Dome is an all-purposeideal for everything from trad cragging to alpine expeditions. Normally come with a wheel adjuster for quick, secure and precise adjustments.Hybrid design with molded EPS foam, generous ventilation and highly adjustable suspension system. Headlamp clips to secure headlamp attachments	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
30	15	**Ea of Half Dome Helmet, Café color, Large.** Designed for climbing, with an improved fit and weight savings. The Half Dome is an all-purposeideal for everything from trad cragging to alpine expeditions. Normally come with a wheel adjuster for quick, secure and precise adjustments.Hybrid design with molded EPS foam, generous ventilation and highly adjustable suspension system. Headlamp clips to secure headlamp attachments	$_____	$_____
31	15	**Ea of Momentum Harness, Graphite, Medium** The Momentum gives climbers of any discipline the same comfort, ventilation and durability that harnesses are known for. Momentum normally come with a traditional waistbelt buckle and BD's trakFIT leg loop adjustment system, which uses a simple, secure slide adjuster to quickly and easily adjust the diameter of the leg loop and provide a wide range of fit. The waistbelt is normally built with durable, breathable, and lightweight comfort without pressure points. Must come with adjustable, releasable rear elastic riser, 4 pressure-molded gear loops and 12 kN-rated haul loop.	$_____	$_____
32	15	**Ea of Momentum Harness, Graphite, Large** The Momentum gives climbers of any discipline the same comfort, ventilation and durability that harnesses are known for. Momentum normally come with a traditional waistbelt buckle and BD's trakFIT leg loop adjustment system, which uses a simple, secure slide adjuster to quickly and easily adjust the diameter of the leg loop and provide a wide range of fit. The waistbelt is normally built with durable, breathable, and lightweight comfort without pressure points. Must come with adjustable, releasable rear elastic riser, 4 pressure-molded gear loops and 12 kN-rated haul loop.	$_____	$_____
33	25	**Pair of Crag Glove, Black, Medium** Gloves use in climbing to help you keep control of the rope when belaying. They protected your hands too when cleaning, climbing via ferrata, or hammering on aid lines. Breathable stretch mesh fabric and cush knuckle padding. They are normally in synthetic leather palms and fingers, reinforced index fingers and thumbs add durability.	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
34	25	**Pair of Crag Glove, Black, Large.** Gloves use in climbing to help you keep control of the rope when belaying. They protected your hands too when cleaning, climbing via ferrata, or hammering on aid lines. Breathable stretch mesh fabric and cush knuckle padding. They are normally in synthetic leather palms and fingers, reinforced index fingers and thumbs add durability.	$_____	$_____
35	50	**Ea of ATC Guide, platinum Belay/Rappel Devise.** ATC-Guide can be set up as an auto device when you're belaying 1 or 2 seconding climbers. Auto-block release hole lets you use a carabiner or a piece of cord to release the device when loaded so you can lower a seconding climber. Variable friction design gives great control with many rope diameters; ATC guide can handle ropes sizes from 7.7 – 11 mm in diameter. High-friction grooves provide great hold and stopping power. Double-slot design allows you to feed single or double ropes smoothly without kinking the rope.	$_____	$_____
36	60	**Ea of Dynex Runner, 60cm** Keeping rope drag and rack weight to a minimum. Built to high strength and abrasion resistance that increases durability.	$_____	$_____
37	20	**Ea of Dynex Runner, 120cm** Keeping rope drag and rack weight to a minimum. Built to high strength and abrasion resistance that increases durability.	$_____	$_____
38	4	**Ea of Nut Tool** Tool to fixe nuts, retrieve deeply buried cams. Indispensable for trad climbing, the hot forged, ultralight and the Torque with built-in wrenches for tightening loose bolt hangers.	$_____	$_____
39	18	**Ea of Super Slacker Rope Bag, 30 L, 1,831 cu in** Keeping your rope clean and tangle free, the SuperSlacker spreads out flat for a clean place to flake your rope.	$_____	$_____

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
40	2	**Ea of spring-loaded camming device, dual axel cam, 4 lobes, Size: .3.** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock.	$_____	$_____
41	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes,, Size: .4** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock.	$_____	$_____
42	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes, Size: .5**		

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
		A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock.	$_____	$_____
43	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes, Size: .75.** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock.	$_____	$_____
44	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes Size: 1**		

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
		A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
45	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes Size: 2** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
46	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes Size: 3**		

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
		A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
47	2	**Ea of Spring-loaded camming device, dual axel cam, 4 lobes Size: 4** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
48	2	**Ea of Spring-loaded camming device, dual axel cam, 3 lobes C3, Size: 000**		

Mountain Climbing Equipment Requirements for 2 CER 03 FEB 2016

#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
		A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
49	2	**Ea of Spring-loaded camming device, dual axel cam, 3 lobes C3, Size: 00** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
50	2	**Ea of Spring-loaded camming device, dual axel cam, 3 lobes C3, Size: 0**		

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		A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
51	2	**Ea of Spring-loaded camming device, dual axel cam, 3 lobes C3, Size: 1** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____

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#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
52	2	**Ea of Spring-loaded camming device, dual axel cam, 3 lobes C3, Size: 2.** A spring-loaded camming device (also **SLCD**, **cam** or **friend**) is a piece of rock climbing or mountaineering protection equipment. It consists of two, three, or four cams mounted on a common axle or two adjacent axles, so that pulling on the axle forces the cams to spread farther apart. This is then attached to a sling and carabiner at the end of the stem. The SLCD is used by pulling on the "trigger" (a small handle) so the cams move together, then inserting it into a crack or pocket in the rock and releasing the trigger to allow the cams to expand. A pull on the rope, such as that generated by a climber falling, will cause a properly placed SLCD to convert the pulling force along the stem of the unit into outwards pressure on the rock, generating massive amounts of friction and preventing the removal of the unit from the rock. Because of the large forces which are exerted on the rock when an SLCD is fallen on, it is very important that SLCDs are only placed in solid, strong rock	$_____	$_____
53	9	**Pack of 6 carabineers color codes matching the Spring loaded camming device** Best use in climbing Mountaineering, Non looking carabineer, wire gate type, 22 mm open gate clearance, 20 kilonewtons strength major axis closed, 8 kilonewtons strength major axis open and 7 kilonewtons strength minor axis.	$_____	$_____
54	2	**Sets of Stopper Set Pro No. 1-13** Stoppers are the descendants of the original chocks. A full set of all sizes of Stoppers on a carabiner to protect everything from tip seams to finger cracks. Stoppers are an essential for every trad rack, designed with a transverse taper that permits sideways placements in flares and shallow seams. Anodized by size, they're quickly identifiable and rounded edges make for easy removal. Each Stopper is equipped with a durable, galvanized steel cable. Durable aluminum heads and steel cables. *Sizes 1 and 2 are for direct aid only. [size 1-2] 2 kN (450 lbf) / [size 3] 5 kN (1124 lbf) / [size 4-5] 6 kN (1349 lbf) / [size 6-12] 10 kN (2248 lbf)	$_____	$_____

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#	QUANTITY	DESCRIPTIONS	UNIT PRICE	EXTENDED PRICE
55	6	**Ea of Positron Carabiner, Bent Gate.** Bent Gate Carabiner delivers the anti-snag benefits of a keylock nose. It's ideal for racking and placing stoppers, or using on the rope-end of a quickdraw. Best use in climbing, non-looking carabiner, bent gate type, 26 mm gate open clearance, 25 kilonewtons strength major axis closed, 8 kilonewtons strength major axis open and 8 kilonewtons strength minor axis.	$_____	$_____