

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
Government of Canada Building
101 - 22nd Street East, Suite 110
Saskatoon
Sask.
S7K 0E1
Bid Fax: (306) 975-5397

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
Public Works and Government Services
Canada/Réception des soumissions Travaux publics et
Services gouvernementaux Canada
Government of Canada Building
101 - 22nd Street East
Suite 110
Saskatoon
Saskatche
S7K 0E1

Title - Sujet Tandem Truck Speed Plow	
Solicitation No. - N° de l'invitation 5P412-140254/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client 5P412-140254	Date 2014-12-04
GETS Reference No. - N° de référence de SEAG PW-\$STN-201-4725	
File No. - N° de dossier STN-4-37035 (201)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-12-19	Time Zone Fuseau horaire Central Standard Time CST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Marsland, Rina	Buyer Id - Id de l'acheteur stn201
Telephone No. - N° de téléphone (306) 241-5742 ()	FAX No. - N° de FAX (306) 975-5397
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
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

This amendment is issued to do the following three things:

1. Amend the closing date of the solicitation

Amend the closing date

FROM:

December 9, 2014 at 2:00 pm Central Standard Time

TO:

December 19, 2014 at 2:00 pm Central Standard Time

2. To respond to supplier questions.

- See heading below item 3.

3. Amend lines 63, 72, 103, 109, 115(d), 116(c) and 117(a) in the Mandatory table of Annex A,

- See information at the end of the questions and responses.

Questions and Responses

Question 1: Re: *"1.4 Maintenance and Warranty : Cover any and all costs to have warranty work (i.e. recalls) performed at a shop located in Prince Albert, Saskatchewan."*

Will you accept a cap on # of warranty claims that will be covered?

Response 1: No, if there is warranty repair required, all costs must be covered.

Question 2: Line 63: Spec states, "it cannot extend beyond 22" from the back of the cab". Will a 34" be acceptable?

Response 2: Yes it can extend beyond 22" as long as it does not interfere with the sand spreader operation or be sprayed during sanding.

Question 3: Paint, what color is the body to be painted?

Response 3: The cab and box must be painted DuPont #N5723HP (yellow) as indicated in line 67.

Question 4: Line 72: Our high end seats have arm rests (spec states no armrests). Is this acceptable?

Response 4: Yes, as long as the armrests do not interfere with access to console.

Question 5: Regarding #103, some clarification is needed. Are they intending to run 2 spreaders simultaneously or utilize a tow plow with a second spreader attached?

Response 5: Neither. To clarify, #103 must have two spreader function valves. One to control the conveyor and one to control the spinner.

Question 6: Line 109: Will non removable chain guards be acceptable?

Response 6: Non removable chain guards are acceptable as long as chains are accessible for servicing.

Question 7: Line 115 (d): Will an air cylinder tailgate be acceptable?

Response 7: Yes and air booster or air cylinder are acceptable.

Question 8: Line 116(a): Will an 18" conveyor be acceptable?

Response 8: No, the conveyor must be a minimum 25" as indicated in the specifications.

Question 9: Line 116(c): Will a 7 tooth, 1 ¾" front drive and 1 3/16" rear be acceptable?

Response 9: Yes, this will be accepted as a minimum. Due to new technology, this will provide adequate strength for the conveyor system.

Question 10: Line 117(a): Will be mounted on conveyor which is mounted on the frame. Is this acceptable?

Response 10: Yes this is the same as being mounted on the frame.

Delete the mandatory table in Annex A in its entirety and insert the mandatory table on the following page.

Mandatory Technical Requirements

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
G.V.W & Dimensions:				
1	Vehicle must be a conventional cab c/w fiberglass tilt hood and fenders with a fixed grill.			
2	Gross Vehicle Weight must be a minimum 66,000 lbs (29 937 kg)			
3	Usable clear cab to axle (CA) must be a minimum of 3810 mm. (152 in);			
4	Wheel Base must be a minimum of 6096 mm (240")			
5	Must have a minimum 74" after frame			
Engine:				
6	Must be an in-line 6 cylinder electronic engine, c/w engine compression brakes			
6(a)	Must be liquid cooled, turbocharged diesel engine			
7	Must have a minimum 400 Net horse power @1700 RPM			
8	Net torque must be a minimum 1650 Ft.lb. @ 1200 RPM			
9	Must have a dry type element air cleaner, mounted under hood, protected from rain and snow;			
10	Oil filter must be a full flow type with replaceable element;			
11	Must have a block heater			
12	Must have both primary and secondary replacement element type fuel filters; each one with water separator that has a sight bowl and must be easily accessible			
13	Must have rear engine power take off (REPTO) drive with flange,			
14	Alternator Batteries; must be a minimum 135 Amp 35 SI Brushless 3 High Cycle, 2500CCA			
15	Must have a battery Disconnect switch in the cab			
16	Must have a cold weather starting aid with in cab control device.			
Transmission and Final Drive:				
17	Must be fully Automatic shift, with a minimum six (6) speed transmission, with touch pad control			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
18	Must have an additional speed sensor signal wire located in the cab for the sanding sensor			
19	Differential Capacity must be a minimum of 46,000 lbs			
20	Must have a minimum 46000 lbs tandem rear axle with 4 wheel differential lock which is driver controlled			
21	Must have a hose type breather			
Front Axle:				
22	Axle configuration must be set forward			
23	Must have a minimum 20,000 lbs/9072 kg rating, with related suspension and brakes			
Front Suspension:				
24	Ground rating must be 10,000lbs/4536 kg at minimum each side			
25	Must have matching heavy duty shock absorbers with a minimum of eight (8) leaf springs			
Rear Suspension:				
26	Ground rating: must be 23,000lbs/10,432 kg at minimum on each side			
27	Must have a standalone dash mounted pressure gauge			
28	Must have leveling valve(s) to adjust each side			
29	Air suspension must have a dump valve			
Frame:				
30	Single rail (reinforced) must be steel bolted straight through			
31	Full depth integral front frame extension must be a minimum 15" from the front of the grill, capable of carrying a 3,000 lb snow plow			
32	Section Modulus must be 20.50 in. ³ at minimum			
33	Minimum Resisting Bending Moment must be 2,460,000 in. lbs			
34	Must have a minimum of 4 Cross members			
35	Frame Paint –standard for corrosive environment – state what has			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
	been provided			
Steering:				
36	Must have greaseable steering knuckles.			
37	Must have a 18" adjustable integral power tilt steering wheel.			
Tires:				
38	Front tires must be 425/65R22.5 and must be a minimum 16 ply tubeless steel radials			
39	Rear tires must be 11R22.5 and must be a minimum 16 ply tubeless steel radials			
40	Bidder must supply spare tires on rims, one (1) for the front and one (1) for the rear of vehicle for Parks Canada to store for future use			
Wheels:				
41	Must be 10 bolt hub piloted, painted steel (in neutral color) c/w isolators between rims			
42	Base width for front must be 31.12 cm (12.25x 22.5")			
43	Base width for rear must be 20.96 cm (8.25x22.5")			
Brakes:				
44	Must be non-asbestos Air-S cam c/w cover plates			
45	Must have a trailer brake spike			
46	Must be full ABS system, with fully operational air system.			
47	Air compressor must be a minimum 453 L/m (15.5 cu. Ft) and liquid cooled to obtain air supply from engine air filter system.			
48	Air tanks must be facing outward and be accessible for daily draining			
49	Must have an air dryer with heater, mounted inside frame rails.			
50	Front shoes – must be at minimum 16 ½ X 6"			
51	Rear shoes – must be 16 ½" x 7"			
52	Parking Brake: must have four (4) spring activated air chambers			
53	Must have Automatic Slack Adjusters			
54	Must have brakes on all axles			
55	Must have a Diesel Particulate Filter, on the right side, under cab canister,			
56	Must have a vertical exhaust pipe c/w heat shield and 18" chrome curved stack extension			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
Miscellaneous				
57	Must have a Towing Package with Pintle Hitch capable of towing 50,000 lb GVW			
58	Must have two Tow hooks one front and one rear mounted			
59	Must have a preventative measure, such as a filter, to prevent corrosion damage to the cooling system.			
60	Front bumper must be flat.			
61	Must have corrosion resistant rear drive wheel fenders to stand up to the conditions the unit will be used in.			
62	Must have a trailer brake control system, which goes to the end of frame c/w glad hands and covers.			
63	Fuel tank must be an aluminum step tank Min 400 to 500 L (the tank can extend beyond 22" as long as it does not interfere with the sand spreader operation or be sprayed during sanding.)			
64	Two (2) steps must extend to back of the fuel tank and no further.			
65	Must have a stationary winter front/summer screen with attached stone guards			
66	Must have front fender extensions – as required to cover 425 tire width			
67	Vehicle must be painted DuPont #N5723HP (yellow), highway and fleet infrastructure color.			
68	Top of hood must be painted flat black			
Cab and Accessories:				
69	Must have two door mounted arm rests.			
70	Floor Mats- must be made of heavy duty rubber c/w underlay			
71	Must have a roof mounted air horn, operated from the cabs interior			
72	Must have two (2) air suspension high back fabric covered seats, neutral in color to hide dirt, (i.e. not white), with air lumbar feature, outboard seat controls, armrests are acceptable as long as they do not interfere with access to the console.			
73	Must have an exterior sun visor, steel or fiberglass			
74	Must have dual aerodynamic heated mirrors which are 180 mm x 250 mm (7"x11") with integral heated convex mirrors 101 mm (4").			
74(a)	Each mirror must have clearance lights, be power adjustable from the driver's side of the cab and must be constructed of corrosion resistant stainless steel or Chrome plastic.			
75	Must have a factory installed AM/FM push button radio, which must include weather bands.			
76	Must have clearance lights			
77	Must have two internal and external grab handles for 3 point stance when entering truck to eliminate using the door handle as a grab handle			
78	Cab Heater/Defroster- must be a high output heater, with winter vent intake cover, complete with factory air conditioning.			
79	Cab interior must be fully lined and insulated in cloth for increased insulation value and reduced noise level, neutral color to hide dirt (i.e. grey)			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
80	Interior noise level – must be less than <80 dba measured at operator's ear level travelling at 100 km/hr.			
81	Must have power windows on both sides.			
82	Must have power door locks			
83	Must have a back up warning alarm			
84	Must have an interior cab light.			
Electrical System:				
85	Must have wiring and a marked dash switch for snow plow lights set up as follows: -Switch in up position and lit (plow lights on, truck headlights off) -Switch in down position (Truck headlights on, plow lights off)			
85(a)	Wiring harness must extend at minimum 1.5 m (5 ft) past front bumper area			
86	Auxiliary driving lights; must have an on/off dash switch that lights up when in on position.			
86(a)	Auxiliary Wiring harness must extend at minimum 1.5m (5ft) past the front bumper area.			
87	Must have a minimum bank of five (5) dash mounted auxiliary switches with wiring to 20 amp capacity relays per switch. Successful bidder must provide wiring schematic and location of relays at time of delivery.			
88	Electrical wiring harnesses for electrical trailer connection must be 0.6 m (2 ft) longer than end of frame and must have a 7 pin plug for trailer ABS.			
Instruments and Controls:				
89	Trailer air brake control must be a dash mounted on/off air switch(es), plumbed to the end of the frame for trailer control			
90	Must have either an ammeter or voltmeter			
91	Must have an air pressure gauge(s) with low pressure alarm inside cab			
92	Must have an oil pressure gauge			
93	Must have a coolant temperature gauge			
94	Must have a hour meter and Tachometer			
Hydraulics:				
95	Bidder must supply and install all necessary hydraulic components for a modular hydraulic system.			
95(a)	The hydraulic valving must be operated electrically from the console installed in the cab of the vehicle.			
96	Must have a Pedestal mounted truck control console installed between the seats in the cab. System must operate multiple hydraulic controlled functions simultaneously with sander functions continuing without interruption;			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
96(a)	System must include supply and installation of all required interfaces, relays and cabling to activate the valves controlling the plow and dump functions.			
96(b)	These must be controlled by two Joysticks: - one (1) – four (4) way plow on/off and - one (1) - two (2) way with a maintained position for hoist.			
96(c)	Control console must be equipped with an adjustable back lighted switch.			
96(d)	Must have a panel to control all truck and sander light functions including master switch.			
97	The system will be used to operate all of the following hydraulic systems: - front mount two-way plow, - dump box - sander/conveyor/spinner The design of the circuit must be such that temperatures must not exceed 71 degrees C (160 degrees F) during conditions deemed as normal operations and speeds.			
98	Hydraulic system for sanding must be a load sensing piloted control type			
98(a)	Must have a manual electronic sander control incorporating a 10 position conveyor and spinner speed with ground speed sensor.			
98(b)	Must have switch and spinner reverse and pause controls, and the blast button response time must be less than one (1) second from 0 to full flow.			
98(c)	Spreader must have a minimum 38 GPM of flow			
98(d)	Valve and solenoids must be mounted in easily accessible location protected against elements and corrosive contaminants			
99	Hydraulic filter must have a built-in bypass installed			
99(a)	Filter must be eliminated at 10 microns.			
99(b)	Must have a filter condition gauge			
99(c)	Filter must be installed so that return flow to the reservoir passes through it.			
100	Hydraulic reservoir must be a swirl type with a capacity sufficient to properly cool the proposed system:			
100(a)	Must be frame mounted behind cab			
100(b)	Must be constructed of not less than 14 Ga. Steel			
100(c)	Valves must be a minimum 14 GPM capacity			
100(d)	Must be equipped with minimum 6" stand pipe c/w filter screen to prevent contamination while filling			
100(e)	Must permit the intake of air through a maximum of 40 micron breather screen during any variance in oil level			
100(f)	Tank must be provided with easily readable oil level and			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
	temperature gauge			
101	Must have solenoid operated stack type hydraulic valves incorporating an adjustable system relief valve and incorporating manual actuation handles to aid in diagnosing system failures.			
102	Must have a single acting dump cylinder.			
103	Must have a spreader function valve to control two conveyors and spinner (i.e. must have two spreader function valves, one to control the conveyor and one to control the spinner)			
104	Must have a double acting front plow function;			
Dump Body				
105	Heavy duty body serving as either a spreader or dump, as required Minimum Dimensions:			
105(a)	Inside width: minimum 86"			
105(b)	Outside width: minimum 96"			
105(c)	Inside length: minimum 168"			
105(d)	Side height: minimum 44"			
105(e)	Tailgate height: minimum 50"			
105(f)	Cab shield: minimum 24"			
105(g)	Capacity: minimum 13.3 cubic yards at water level			
105(h)	Minimum Weight: 6,500 lbs			
106	Dump Body must be versatile with the ability to be used as a dump body or as a spreader to allow material to discharge through the front of the dump body onto a conveyor then onto a spinner assembly by way of an integral center conveyor assembly.			
107	The sides, front and tailgate must be manufactured of a minimum 3/16" steel.			
108	The unit must be 100% continuously welded throughout.			
109	The unit must have a minimum ¼" A569 steel replaceable floor with 3/16" removable chain guards. (non removable chain guards are acceptable as long as chains are accessible for servicing)			
110	The sides must be brake formed from a minimum 3/16" steel			
111	The boxed top rail shall be a minimum of 3/16 "formed channel.			
112	The front must be sloped to accommodate a headlift cylinder with partial doghouse, conform with the radius of the body, and be 100% welded on the inside and outside.			
113	The rear of the body must be supported by min, two pieces of min			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
	3/16" A569 steel plate contoured to the radius of the body and welded 100% on both sides.			
113(a)	Additional reinforcement must be provided by a 3/16" formed box section, placed at the rear of the spreader body and welded to two rear posts formed from at minimum 3/16" A569 steel. Together, they shall provide the required support at the rear of the body.			
114	The side supports must have a minimum 3/16" x 3" x 3" tube extending thru long members or 2" X 8" X 3/8" tubing with a 3/16" boxed section welded 100% from top rail of the body to cross tube.			
115	The tailgate must be air operated.			
115(a)	Must be a minimum of 6" higher than the sides of the body.			
115(b)	Must be manufactured from at minimum 3/16" steel.			
115(c)	Must be double acting with a squared perimeter, having a minimum of two horizontal braces.			
115(d)	Tailgate must utilize an air booster or air cylinder and spring assembly over-center type locking mechanism design,			
115(e)	Must have two adjustable chains to allow controlled spreading by the tailgate.			
116	Conveyor must discharge onto front left spinner.			
116(a)	The body conveyor must be a minimum 25" inches protected on the top through the extension of the side panels, must have a minimum 28,000 pound tensile strength per strand pintle chain, with 1 1/2 x 3/8 on 4 1/2 centers			
116(b)	Front discharge bodies, all sizes, must be driven by planetary drive at a minimum of 24:7:1			
116(c)	There must be a minimum of 7 tooth sprockets keyed to the 1 3/4" front drive and 1 3/16" rear.			
116(d)	There must be either a heavy-duty idler assembly that will provide adjustment for proper conveyor chain tension by use of slide rail style adjusters, OR an Automatic chain tensioner			
117	Spinner Assembly must be manufactured from a minimum of 3/16" A569 steel tubing and bar bracing			
117(a)	Must be either frame mounted or mounted on conveyor which is then mounted to the chassis frame.			
117(b)	Must come equipped with a stationary front guard.			
118	Hoist Cylinder must be a two stage telescopic cylinder, with a minimum capacity of 30 tons at 2000 psi;			
119	Finish - All steel must be a minimum 180,000 psi material, and primed/painted/covered in a corrosion resistant method to withstand ambient temperatures and severe weather conditions including salt contact.			
120	Must have a safety leg or safety mechanism to hold the box in raised position for servicing.			
121	Plow must have plow lights installed either on top of the plow			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
	frame, OR on the sides of the hood for best illumination of the roadway			
121(a)	Must have mud flaps installed			
122	The snow plow coupling device must be a quick attach and detach design			
122(a)	Must be able to pivot to accommodate uneven terrain			
122(b)	Must be able to be driven into evenly and to lock into place automatically			
123	Receiver Boxes must have hitch latch pins which must be a minimum of 1-1/2" diameter by 1018 hardened steel shafting.			
123(a)	The hardened steel pins on the truck half must be a minimum of 1-1/2" in diameter.			
123(b)	The truck portion of the hitch must be designed with no moving parts for connecting the plow to the truck and must have a tapered opening, to allow for up to a maximum of 5-1/2" in horizontal misalignment.			
124	All vertical and horizontal structural angles that make up the lift frame must be a minimum of 63,000 PSI tensile strength steel.			
124(a)	The lift arm and lift frame must be designed to accept a minimum 3" lift cylinder which must be adjustable, and designed to support the weight of the plow.			
125	Painting – powder coated black in color or sand blasted and primed with an epoxy primer prior to painting; or other corrosion resistant method to withstand ambient temperatures and severe weather conditions including salt contact.			
126	The snow plow push frame must be designed with an automatic quick hitch type latching mechanism			
126(a)	The design of the latch mechanism must allow the plow to swivel freely so that it can follow the contour of the road allowing the plow to be parallel to the road surface at all times (raised, lowered or angled)			
126(b)	Painting process by way of powder coating, black in color or sand blasted and primed with an epoxy primer prior to painting; or other corrosion resistant method to withstand ambient temperatures and severe weather conditions including salt contact.			
Snow Plow				
127	Plow must be full trip reversible C shaped moldboard			
127(a)	Must be 12 feet in length and a minimum 41 inches in height.			
127(b)	Must be made with at minimum 10 gauge steel			

Item	Technical Requirement	Bidder Compliance		Comments
		YES	NO	
127(c)	Moldboard must have a minimum of 6 vertical support ribs.			
127(d)	A plate must be welded to the ribs where the push frame attaches to the mould board to provide a surface for pins.			
127(e)	Each trip arm must utilize a heavy duty compression spring			
127(f)	Must have screw adjustable skid shoes, and Offeror must include a set of replacement skid shoes with the vehicle.			
127(g)	Plow must have a minimum 12" snow deflector on top of plow to prevent snow from blowing over the top of the plow back to the windshield.			
127(h)	The plow must have a leveling device which allows the plow to be raised by one center lifting lug. This device must allow the plow to angle full left and full right while the plow is raised, and must not require the lowering of the plow to level it after angling.			
127(i)	The hydraulic hoses must be abrasion resistant, extremely flexible and work in a temperature range from -50 to 45 degrees C. (-58 to 113 degrees F)			
127(j)	All hardware and fasteners must be electronically plated and corrosion resistant.			
127(k)	Moldboard sandblasted and primed with an epoxy primer prior to painting or powder paint; or other corrosion resistant method to withstand ambient temperatures and severe weather conditions including salt contact. - Moldboard shall be orange with the push frame being black in color.			
127(l)	All welding performed on the plow must be in compliance with current AWS procedures and guidelines recognized within the State/Province of manufacture.			