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Pacific Region
800 Burrard Street, 12th Floor
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Vancouver, B. C.
V6Z 2V8
Bid Fax: (604) 775-7526

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 -
Pacific Region
800 Burrard Street, 12th Floor
800, rue Burrard, 12e étage
Vancouver, BC V6Z 2V8

Title - Sujet Airport Plow Truck - Port Hardy	
Solicitation No. - N° de l'invitation T7056-120005/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client T7056-120005	Date 2012-10-02
GETS Reference No. - N° de référence de SEAG PW-\$XSB-005-6809	
File No. - N° de dossier XSB-2-35092 (005)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-13	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
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: Armstrong, Wendy	Buyer Id - Id de l'acheteur xsb005
Telephone No. - N° de téléphone (604) 775-7691 ()	FAX No. - N° de FAX (604) 775-7526
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

Solicitation No. - N° de l'invitation

T7056-120005/A

Client Ref. No. - N° de réf. du client

T7056-120005

Amd. No. - N° de la modif.

001

File No. - N° du dossier

XSB-2-35092

Buyer ID - Id de l'acheteur

xsb005

CCC No./N° CCC - FMS No/ N° VME

AMENDMENT #1

Delete: Annex A French

Insert: attached Amended French Annex A

All other terms and conditions remain unchanged.

<p>Scope</p> <p>1.1 <u>Scope</u> – Supply the quantity of Snow Plow trucks noted in the request for proposal. The requirement is for a 6 cubic meter (8 Cu Yd) capacity, minimum 19,505 Kg (43,000 LB) GVWR, 4 X 4 Plow truck complete with 19 foot reversible snow plow. All items noted in sections 1 through 8 of this specification are to be included in the basic configuration.</p>	<p>SPECIFY THE ACTUAL COMPONENTS SUPPLIED, AND THEIR RATED CAPACITIES, FOR THE UNITS TENDERED. NOTE IN DETAIL ANY DEVIATIONS FROM THE SPECIFIED ITEMS.</p>
<p>GENERAL REQUIREMENTS</p> <p>2.1 <u>Standard Requirements</u> - The vehicle supplied under this specification shall be new and the manufacturer's latest model standard commercial product and shall have demonstrated industry acceptance by having been manufactured, and sold in significant numbers to the commercial trade and shall have been proven in service for the application specified, for at least 1 year prior to the request for proposal.</p>	<p>PROVIDE DETAILS _____</p>
<p>2.2 <u>Overview</u> – The vehicle supplied under this specification are to be four wheel drive truck embodying an automatic transmission, a diesel engine, and a tilt forward hood. All accessories to be supplied for the vehicle must be part of the Standard customary installation, and any extra or specific accessories or omission of accessories should only form part of the bid if specifically requested in or in order to conform to the tender document.</p>	<p>MAKE _____</p> <p>MODEL _____</p>
<p>2.3 <u>Operating Conditions</u> – The vehicle supplied must be capable of operating without failure of components when loaded to the maximum GVW specified. The vehicle must be capable of satisfactory operation in ambient temperatures down to –40 degrees Celsius.</p>	<p>COMPLY _____</p>

<p>2.4 <u>Mandatory Items</u> - Items noted in the specification as "shall be, must be, to be, minimum, land maximum are mandatory requirements". No deviations will be accepted for these items.</p>	
<p>2.5 <u>Responses</u> – Any responses noted as approximately will be interpreted as "NOMINAL". Any non-completed areas will be interpreted as non-compliance.</p>	
<p>REGULATIONS AND STANDARDS</p>	
<p>3.1 <u>General</u> – All standards and specifications referenced herein refer to the latest editions.</p>	<p>COMPLY _____</p>
<p>3.2 <u>Highway Traffic Act</u> – The vehicle(s) supplied shall comply in all respects with the Highway Traffic Act or regulations for the province in which it is to operate.</p>	<p>COMPLY _____</p>
<p>3.3 <u>Canada Motor Vehicle Safety Standards</u> – All applicable Canada Motor Vehicle Safety Standards shall be adhered to.</p>	<p>COMPLY _____</p>
<p>3.4 <u>Society of Automotive Engineers</u> – All notations in this specification indicating SAE refer to the most recent specification in effect by the Society of automotive Engineers.</p>	<p>COMPLY _____</p>
<p>DELIVERY</p>	
<p>4.1 <u>Pre-delivery</u> – A pre-delivery service shall be completed by the truck manufacturer's dealer prior to delivery. The truck(s) are to be lubricated and serviced with all associated products suitable for the climatic conditions in the area the trucks(s) will operate.</p>	<p>PDI _____</p>

- 4.2

Documentation – All necessary documentation (origin certificate, weight ticket, or new vehicle information statement, etc.) required for licensing the vehicle for road use, by the issuing provincial authority, shall be provided to the consignee when the vehicle is delivered.

ADDRESS _____
- 4.3

Inspection – The prime contractor is responsible to ensure that the vehicle(s) are thoroughly tested, inspected, and that all deviations are corrected prior to delivery. A final inspection shall be completed by the consignee at time of delivery.

COMPLY _____
- 4.4

Delivery – Quoted price must include FOB the airport.

COMPLY _____

WARRANTY AND MANUALS

- 5.1

Manuals – If available provide one copy of maintenance manuals for each truck chassis. Provide one copy of the manufacturer's maintenance and parts manuals for the transmission, engine, rear axle, snow plow and dump box. All manuals are to be delivered with the truck.

COMPLY _____
- 5.2

Warranty period – Provide warranty on all components and repair labour from the date, mileage and hours on the unit when it is initiated into service. State the warranty term.

PROVIDE DETAILS OF ALL WARRANTIES _____
- 5.4

Dealer – Specify the dealer responsible for performing any required warranty repairs, and provide the name and phone number of the person to be contacted should warranty repairs be required.

AGREE _____

CAB AND CHASSIS

6.1 G.V.W.R.

- .1 The minimum gross vehicle weight rating shall be (19, 505 kg) 43,000 LB.

6.2 Chassis Dimensions

- .1 Cab to Axle to be minimum of 2133mm (84 in) to suit a 3048 mm (10 FT) dump body.
- .2 Cab dimensions, **Bumper to Back of Cab** to be 2794mm to 2900mm (110 in to 114 in).
- .3 Wheelbase to be 3605mm to 3935mm (142 in to 155 in).
- .4 Mandatory maximum **Turning Radius** to be (9.75 M) 32ft to centerline of front tire.

6.3 Engine

- .1 Engine to be a diesel. The engine must have wet sleeve replaceable cylinders liners.
- .2 Minimum power output to be 350 Hp at the manufacturer's recommended maximum rpm per SAE-J1349. Minimum torque to be 1150 Ft-lb.

DEALER _____

CONTACT _____

PHONE _____

ACTUAL GVWR _____

ACTUAL CA _____

ACTUAL BBC _____

ACTUAL WB _____

ACTUAL TR _____

ENGINE MAKE AND MODEL _____

ACTUAL HP _____

ACTUAL TORQUE _____

<p>.3 Oil filter to be a full flow type, incorporating a replaceable element.</p> <p>.4 Provide a full flow, heated, fuel filter/water separator incorporating a replaceable element.</p> <p>.5 Provide a two-stage inside/outside intake air cleaner complete with in-cab air restriction gauge.</p> <p>.6 The radiator is to be a severe duty type. Coolant protection to -40 C to be provided.</p> <p>.7 The engine fan is to incorporate a thermostatically controlled fan clutch, if not air to air engine.</p> <p>.8 All radiator and heater hoses are to be silicon type. All hose clamps <u>MUST</u> be silicon hose type. No deviations accepted.</p> <p>.9 Provide a <u>fast idle switch</u> capable of maintaining a constant engine speed of 1200 RPM. The fast idle system must only operate with the transmission in neutral.</p>	<p>COMPLY _____</p> <p>COMPLY _____</p> <p>COMPLY _____</p> <p>COMPLY _____</p> <p>PROVIDE DETAILS _____</p> <p>COMPLY _____</p> <p>COMPLY _____</p>
<p>6.4 <u>Transmission</u></p> <p>.1 The vehicle(s) are to incorporate an automatic transmission. The transmission is to have a minimum of five forward speeds, with 3rd gear hold.</p> <p>.2 Provide an automatic safety device to ensure that the truck engine can only be started in neutral range.</p> <p>.3 Shift control quadrant to be illuminated.</p>	<p>TRANSMISSION MAKE AND MODEL _____</p> <p>COMPLY _____</p> <p>COMPLY _____</p>

<p>4. Provide a transmission oil cooler.</p> <p>6.5 <u>Suspensions</u></p> <p>1. Both the front and rear springs are to be progressive, heavy duty type. Front rating to be a minimum of 19,000 lbs, rear 23,000 lbs.</p> <p>2. The rear suspension is to be complete with auxiliary helpers.</p> <p>3. Shock absorbers to be supplied on the front axle.</p> <p>6.6 <u>Drive Line</u></p> <p>1. Minimum Spicer 1710HD series (or equivalent) drive shaft(s) and universal joints.</p> <p>2. Provide visible oil seal caps on the front axle.</p> <p>6.7 <u>Frame</u></p> <p>1. Full depth, heavy duty, reinforced frame having a minimum PSI rating of 120,000 in-lbs. The frame must be reinforced the entire length.</p> <p>2. Provide for the installation of a front mounted PTO pump, driven from the front of the engine crankshaft.</p> <p>6.8 <u>Axles</u></p> <p>1. The front axle to have a minimum capacity of 8618 Kg (19,000 lb).</p>	<p>COMPLY _____</p> <p>FRONT RATING _____</p> <p>REAR RATING _____</p> <p>AUX RATING _____</p> <p>PROVIDE DETAILS _____</p> <p>MAKE AND SERIES _____</p> <p>ACTUAL _____</p> <p>COMPLY _____</p> <p>ACTUAL _____</p>
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Single Axle 4x4 Airport Plow Truck **Specification**
43,000 LB, GVWR with minimum 350 Horse Power and 19 foot Reversible Plow.

Date: 2011-05
Page: 7

<p>2 The front axle is to be set back a minimum of 1016 mm (40in).</p> <p>3 The rear axle to have a minimum capacity of 10,400 Kg (23,000lb).</p> <p>4 Axle ratio to be provided to allow for an approximate road speed of 90 KPH.</p> <p>5 Provide power operated, driver controlled, traction lock rear differential, with dash-mounted switch and warning light.</p>	<p>SET BACK DIMENSION _____</p> <p>ACTUAL _____</p> <p>AXLE RATIO _____</p> <p>TOP SPEED _____</p> <p>PROVIDE DETAILS _____</p> <p>_____</p>
<p>6.9 <u>Wheels</u></p> <p>1 Front rims to be minimum 12.25 x 22.5.</p> <p>2 Rear dual rims to be minimum 8.25 x 22.5.</p> <p>3 Both front and rear wheels must be disc type.</p> <p>4 The wheels shall comply with the axle manufacturer's rating for imposed loads and operating conditions.</p> <p>5 Provide one front spare rim fitted with a front tread type tire as noted in section 6.10.2 of this specification.</p>	<p>FRONT RIM SIZE _____</p> <p>REAR RIM SIZE _____</p> <p>COMPLY _____</p> <p>FRONT WHEEL RATING _____</p> <p>REAR WHEEL RATING _____</p> <p>COMPLY _____</p>
<p>6.10 <u>Tires</u></p> <p>1 Rear tires to be 16 ply on/off road, radical type, 11R 22.5 Michelin XDY-EX or equivalent.</p> <p>2 Front tires to be 20 ply on/off road radial type, 425/65R 22.5 Michelin XZY or Goodyear G286 or equivalent.</p>	<p>MAKE AND TYPE _____</p> <p>CAPACITY AND LOCATION _____</p>

<p>6.11 <u>Steering</u></p> <p>.1 Integral power steering with a right side slave or ram.</p>	<p>COMPLY _____</p>
<p>6.12 <u>Fuel Tank</u></p> <p>.1 Capacity to be not less than 220 liters. Left hand side mounted preferred.</p>	<p>PROVIDE DETAILS _____</p>
<p>6.12 <u>Exhaust</u></p> <p>.1 Vertical exhaust pipe equipped with an elbow.</p>	<p>COMPLY _____</p>
<p>6.13 <u>Brakes</u></p> <p>1. Full air brakes incorporating the following items;</p>	<p>COMPLY _____</p>
<p>.1 Minimum 13 CFM compressor.</p>	<p>_____</p>
<p>.2 Spring applied, air release parking brakes.</p>	<p>_____</p>
<p>.3 Minimum 16.5 x 6 "S cam" front brakes with automatic adjusters.</p>	<p>_____</p>
<p>.4 Minimum 16.5 x 7 "S cam" rear brakes with automatic adjusters and backing plates.</p>	<p>_____</p>
<p>.5 Bendix AD-9, or equivalent, heated air dryer, complete with moisture ejector.</p>	<p>_____</p>
<p>.6 In dash pressure gauge with low pressure warning light and buzzer.</p>	<p>_____</p>
<p>2. Provide full trailer connections, to include air and electrical connections mounted at the end of the frame, including tractor protection valve and 7 pin electrical trailer receptacle.</p>	<p>COMPLY _____</p>

6.14 Electrical

1. Include batteries having a minimum of 2100 CCA capacity.
2. Include a minimum 145 amp 12 V alternator, having a minimum output of 60 amps at engine idle.
3. Provide a back-up alarm having a minimum of 97 dBA.
4. Provide a warning light and buzzer to indicate the following conditions; high coolant temperature and low engine oil pressure.
5. Provide an Engine hour meter installed in the instrument panel.
6. Provide an engine block heater, minimum size of 1000 watts complete with bulkhead receptacle located beneath the driver's door.
7. Manual reset circuit breakers must be provided.
8. Provide roof mounted amber light, Whelen RB6PAPS Rotating Beacon. Or Dominion Auto Strobe light number 420700-02. Or other manufactures equivalent. The light flashing frequency shall be between 60 and 90 per minute.

6.15 Cab

1. Fully insulated metal cab equipped with maximum capacity fresh air intake heating and defrosting system, with air intake protected from the ingress of rain and snow.

COMPLY _____	COMPLY _____
CAPACITY _____ TYPE _____	
IDLE AMPERAGE _____	
COMPLY _____	
PROVIDE DETAILS _____	
COMPLY _____	
COMPLY _____	
PROVIDE DETAILS _____	
COMPLY _____	
PROVIDE DETAILS _____	

<p>2 The cab heating system shall have sufficient capacity to maintain the cab interior at 13 C with an ambient temperature of -40C.</p>	<p>PROVIDE DETAILS _____</p>
<p>3 Cab access handles, to be installed on both right and left hand sides of the vehicle exterior, as well as interior door access handles.</p>	<p>COMPLY _____</p>
<p>4 Provide the heaviest duty, variable speed electric or air wipers. The wipers must be complete with automatic park capability. Wet blade type windshield washers preferred.</p>	<p>WIPER TYPE _____ WASHER TYPE _____</p>
<p>5 A maximum soundproof insulation package shall be fitted to provide the lowest possible interior sound level, Interior sound level shall not exceed 83 dB(A) when measured in accordance on bare asphalt with the vehicle moving at maximum governed speed in third gear.</p>	<p>COMPLY _____</p>
<p>6 Hood to be a tilt forward type having both a stationary grill and side access hatches to permit easy access to the engine.</p>	<p>COMPLY _____</p>
<p>7 Provide a driver and passenger sun visor.</p>	<p>COMPLY _____</p>
<p>8 Provide driver's high back, cloth, air-ride suspension seat with right side arm rest. Single passenger seating to be provided.</p>	<p>TYPE _____</p>
<p>9 Provide a right side power window with the controls at the divers side.</p>	<p>COMPLY _____</p>
<p>10 Dual west coast type, heated mirrors: minimum 178 X 406 mm (7 X 16 in.). Minimum 8-inch convex mirrors to be supplied on each side.</p>	<p>PROVIDE DETAILS _____</p>

6.16 Painting

- .1 The cab and dump box are to be painted with Epoxy, Polyurethane or Imron type paint or equivalent. Paint colour Orange CGSB-1-GP-88, shade 508-101, standard paint colour 1-GP-12. Or manufacturers closest equivalent.

PROVIDE DETAILS _____

6.17 Instruction Identification

- .1 Provide permanently installed ISO or English/French instructions, diagrams and warning plates, where required to ensure efficient operation and servicing with maximum safety.

COMPLY _____

DUMP BODY

7.1 Body and hoist

1. The tailgate is to be a minimum of 1066 mm (42 in) high.
2. Provide two six-inch hardwood sideboards.
3. The sides, tailgate, and header must be constructed utilizing minimum 10 gauge steel. The floor is to be a minimum 3/16 inch Cor-ten steel.
4. The body sub frame consist of two trapezoidal long members, welded directly to the underside of the floor plate. All components shall be box section type and fully sealed against moisture.

PROVIDE DETAILS _____

COMPLY _____

COMPLY _____

COMPLY _____

5. The body shall incorporate an air operated double acting

COMPLY _____

locking tailgate with combined spreader and drop chains. Ladders shall be provided on both sides of the box.	COMPLY _____
6. The header shall incorporate a cab shield, which extends to a minimum of 13 inches.	COMPLY _____
7. All Stop, Tail and Clearance lights shall be recessed and protected from damage. All wiring shall be installed inside of loom and fastened securely to the body.	COMPLY _____
8. Provide four mud flaps. The mud flaps shall not "sail" more than 30 degrees from the vertical.	COMPLY _____
9. Heavy duty telescopic front mounted lift hoist to be installed; tipping angle to be a minimum of 50 degrees; Dump box hoist to have a minimum capacity of 20,320 Kg (20 ton).	PROVIDE DETAILS _____
10. Provide a self-storing, locking bar, which is capable of safely supporting the dump box allowing the hoist to be serviced.	COMPLY _____
11. The inside walls of the dump box must be vertical and at a 90 degree angle to the floor.	COMPLY _____
12. The hoist controls are to be mounted in the cab allowing easy access for operation by the driver, when combined with the snow plow controls. The hoist control switch must be a detent type with protective shield to prevent unintentional operation.	PROVIDE DETAILS _____
13. Pintle hook to be Holland PH-400 air operated, or equivalent, suitably reinforced to the frame with provisions for safety chains.	PROVIDE DETAILS _____

<p>7.2 <u>Welding</u></p> <p>1 All welding is to be continuous. Welds shall be neat and smooth and weld penetration shall provide for maximum design strength without failure through the base metal junction.</p>	<p>COMPLY _____</p>
<p>8.0 PLOW SPECIFICATIONS</p> <p>8.1 <u>Dimensions</u></p> <p>1. Width of blade must be 19 ft.</p> <p>2. Width of cut must be 16 ft 5 inch at 35 degrees.</p> <p>3. Blade height to be a minimum of 51 in clear from the ground to the outside of the mouldboard face.</p>	<p>ACTUAL _____</p> <p>ACTUAL _____</p> <p>ACTUAL _____</p>
<p>8.2 <u>Blade Assembly</u></p> <p>1. Pivoted, adjustable blade assembly which can be readily detached from the drive frame.</p> <p>2. The mould board is to be constructed from (.125 inch) steel formed plate with weight saving cutouts. The mould board is to be adequately ribbed and reinforced for heavy duty plow applications.</p> <p>3. The mould board is to be covered with a <u>minimum</u> 3/8in high density orange polyethylene adequately ribbed and reinforced. Submit with the tender manufacturing details on the polymer. No deviations accepted.</p>	<p>COMPLY _____</p> <p>THICKNESS _____</p> <p>CONSTRUCTION _____</p> <p>ACTUAL THICKNESS _____</p>

<p>4. Equipped with a replaceable cutting edge complete with tungsten-carbide insert 10mm X 14mm (3/8 X 9/16). Details of the cutting edge size are to be included with the tender.</p> <p>5. Provide thrust blocks on the mould board to positively locate the cutting edges within 0.8mm (0.030 in) alignment.</p>	<p>TYPE _____</p> <p>ACTUAL ALIGNMENT _____</p>
<p>8.3 <u>Drive Frame</u></p> <p>1. Oscillating type with stabilizing drive bars to permit the plow to follow surface contours without constraint.</p> <p>2. Readily detachable from the push-frame. Tor-Loc quick attached (spade hitch) is preferred</p> <p>3. The drive frame must be a half circle, sector type, being totally independent, and easily detached from the plow.</p> <p>8.4 <u>Casters</u></p> <p>1. Provide dual caster wheels on each end of the plow, which are designed to provide durable, reliable, and efficient service, under all operating conditions. All bearings and bushings shall have grease fittings.</p> <p>2. Provide quick, easy and positive screw adjustment for swivel dampers and castor wheel height.</p> <p>3. Each dual caster is to be designed to carry a minimum load of 900 kg (2000 lbs). Their construction must be suited for use on airport runways, and be durable for the purpose intended.</p>	<p>TYPE _____</p> <p>COMPLY _____</p> <p>PROVIDE DETAILS _____</p> <p>_____</p> <p>TYPE _____</p> <p>TYPE _____</p> <p>TYPE AND SIZE _____</p>

.4 Anti-shimmy caster wheel brakes are to be installed on each
caster wheel.

SPECIFY _____

<p>8.5 <u>Power Reversing Ram</u></p> <ol style="list-style-type: none"> 1 Operated by two telescopic hydraulic cylinders and capable of operation in the raised or lowered positions. 2 Provide infinitely variable blade positions to a minimum angle of 32 degrees to the right and left of the bulldozing position. 3 Provide a hydraulic cushion valve on the plow ram cylinders. 4 Reversing speed to be readily adjustable. 	<p>CYLINDERS TYPE AND SIZE _____ _____ ACTUAL _____ COMPLY _____ COMPLY _____</p>
<p>8.6 <u>Push Frame</u></p> <ol style="list-style-type: none"> 1 Provide a totally <u>hydraulic tilting push frame</u>. The tilting push frame must be easily operated from inside of the cab. The entire push frame must tilt forward to allow for the fiberglass hood to be tilted forward. The tilting cylinders must be complete with a relief valve allowing a maximum of 800 PSI pressure 2 Reinforcing side plates to be a minimum of (5/8 in) steel plate, shaped to suit. 3 Install front bumpers on each side of the plow harness, with built in step and suitable grab handles to provide easy access to the engine compartment. 	<p>PROVIDE DETAILS _____ _____ ACTUAL THICKNES _____ COMPLY _____ COMPLY _____</p>
<p>8.7 <u>Quick Manual Release Hitch</u></p> <ol style="list-style-type: none"> 1 Install a quick manual release hitch between the push and drive frames. The ears must be welded to the truck push plate. 	<p>COMPLY _____ _____</p>

<p>2. Provide a suitable parking stand to support the drive frame for direct coupling and uncoupling.</p>	<p>COMPLY _____</p>
<p>8.8 <u>Lifting Device</u></p>	
<p>1. Attached to the push frame and adequately reinforced.</p>	<p>TYPE _____</p>
<p>2. Operated by a hydraulic cylinder being a minimum of 4 in diameter x 10 in long.</p>	<p>TYPE _____</p>
<p>3. Capable of lifting the blade at least 300 mm (12 in) clear of the ground.</p>	<p>COMPLY _____</p>
<p>4. Lifting speed of the blade to be readily adjustable.</p>	<p>COMPLY _____</p>
<p>8.9 <u>Lights</u></p>	
<p>1. Supply and install two lights located above the lifting frame. The lights must be capable of illuminating the work area ahead of the vehicle with the plow in the raised position.</p>	<p>COMPLY _____</p>
<p>2. Provide separate dash mounted switches to control each set of plow lights.</p>	<p>COMPLY _____</p>
<p>3. Provide turn signals which are visible from the front of the vehicle with the plow in the raised or lowered position.</p>	<p>COMPLY _____</p>
<p>8.10 <u>Hydraulic Oil</u></p>	
<p>1. Must be Dexron II or equivalent.</p>	<p>COMPLY _____</p>
<p>8.11 <u>Hydraulic Hoses</u></p>	
<p>1. Comply with SAE standards for operating conditions.</p>	<p>COMPLY _____</p>

<p>2. Remain resilient and flexible down to minus 40 degrees celsius.</p>	<p>COMPLY _____</p>
<p>8.12 <u>Hydraulic system</u></p>	
<p>1. Supply and install a crankshaft driven "Tyronc dry mode" or equivalent hydraulic pump. The pump is to operate the snow plow as well as the dump box.</p>	<p>TYPE _____</p>
<p>2. The pump drive shaft is to be a minimum Spicer 1280 series, having needle roller bearing universal joints and a splined slip joint.</p>	<p>TYPE _____</p>
<p>3. The hydraulic system is to include adequate oil capacity, filtration (with replaceable filters), pressure control and relief devices, and other equipment necessary to ensure the satisfactory and safe operation of the dump box and snow plow(s).</p>	<p>PROVIDE DETAILS _____ _____ _____</p>
<p>4. In cab mounted air controls to be feathering proportional type, which allow the operator to easily raise or lower the plow to any desired position. The valve controls are to be the joystick type with easy access for the operator.</p>	<p>TYPE _____</p>
<p>5. All air control lines to be colour coded for easy identification.</p>	<p>COMPLY _____</p>

<p>8.13 <u>Painting</u></p>	
<p>.1 Paint to be rust type, Paint colour to be Black.</p>	<p>COMPLY _____</p>
<p>8.14 <u>Miscellaneous</u></p>	
<p>.1 Permanently identify all instrumentation and controls. Provide instructions, diagrams and warning plates to ensure efficient operation and servicing with maximum safety.</p>	<p>COMPLY _____</p>
<p>.2 Provide and install a minimum 3/8 inch thick, 19 feet by 1 foot, rubber deflector at the front of the plow.</p>	<p>COMPLY _____</p>
<p>.3 Provide and install guide flags on each end of the plow.</p>	<p>COMPLY _____</p>
<p>9.1 The front mounted pump must be installed Independently from the front harness and must remain with the chassis.</p>	<p>COMPLY _____</p>
<p>9.2 If available, provide a <u>training video</u>. The video contents shall include training on the operation and maintenance of the detachable plow system.</p>	<p>COMPLY _____</p>