



The Fort McMurray Airport Authority (FMAA) is requesting proposals (RFP) and the supply and delivery of one severe duty 6x4 tandem drive snow plough, dump truck (the vehicle). The vehicle is intended to be used as a runway de-icing spreader carrier and equipped with a 3.65m (12ft) plough. The vehicle is required to meet the minimum specifications and performance requirements listed.

The FMAA will not necessarily accept the lowest or any of the RFP's submitted. Each proponent acknowledges and agrees by submitting a RFP that the FMAA shall have no liability or obligation to any proponent, except to the party, if any, awarded a contract by the FMAA in its sole discretion and the FMAA shall be fully and forever released and discharged of all liability and obligations in connection with this RFP. The FMAA reserves the right to cancel this RFP without any obligation or any reimbursement to any proponent.

The FMAA reserves the right to accept or reject any or all RFPs submitted, to proceed or not proceed to the contract stage, to enter discussions with any proponent as it sees fit and to introduce new selection criteria or change the process at its sole discretion and without any liability for so doing. The FMAA is not required to enter or award a contract and shall not incur any liability to any proponent for not entering a contract.

Each proponent is responsible to ensure its complete understanding of the instructions and specifications of this RFP. In the event clarification is necessary, proponents are advised to contact the FMAA, prior to making their submission. By responding to the RFP, the proponent confirms its understanding that failing to comply with any of the RFP instructions or specifications, may result in the disqualification of the RFP.

In addition to the evaluation criteria stated herein, the FMAA may take into account other considerations, including the FMAA's or others past experience with the proponent or the model of vehicles being proposed, and reserves the right not to contract with any proponent which the FMAA is currently engaged in any form of dispute resolution mechanism.

The FMAA reserves the right, to require any proponent to submit such evidence of qualifications and additional specification detail as the FMAA may deem necessary, and will consider evidence concerning the financial, technical, and other qualifications and abilities of the proponent in its RFP evaluation.

All costs for proposal preparation shall be borne by the proponent. All submissions become the property of the FMAA and will not be returned. All conditions contained in this RFP call are considered accepted by the proponent in any RFP submitted. Late or misdirected RFP's will be considered non-compliant.



The evaluation of RFP's will be based on technical compliance and overall best value to the FMAA as solely determined by the FMAA. The selected proponent will be contacted by the FMAA for negotiation and or contract award. Notwithstanding the above, the FMAA is under no obligation to enter or award a contract to any of the proponents.

RFPs are to be submitted on company letterhead and must be signed by a duly authorised company signatory, who is authorised to contract for the proponent. The proponent shall provide:

- a) A detailed list of technical specifications for the vehicle.
- b) A complete response to the specified requirements of the RFP.
- c) An itemized price, which includes delivery Free on Board (FOB) to the Fort McMurray Airport, Alberta.
- d) A firm price valid for 90 days after RFP closing.
- e) RFP closing date: April 19, 2024, at 1600h Mountain Daylight Time.

Questions can be submitted to Cuyler Green, VP Operations at cuyler.green@flyymm.com before April 12, 2024, and will be answered by April 16, 2024. Questions submitted on or after April 12, 2024, will be responded to on a best effort basis by the FMAA. RFPs are to be submitted electronically to cuyler.green@flyymm.com. The FMAA intends to have a decision to award or not to award this contract on or before May 17, 2024. Delivery of the vehicles is expected by September 30, 2024, and no later than October 31, 2024.

The headings in this Agreement are for convenience of reference only and shall not control or affect the meaning or construction of this RFP.

Enclosures:



General

1. The vehicle, attachment and accessories are to be delivered Free on Board (FOB) to the Fort McMurray Airport maintenance shop at 547 Snow Eagle Drive, Fort McMurray Alberta.
2. The vehicle and attachments shall comply with all applicable Canadian Federal and Provincial rules and regulations for on and off highway use in Alberta.
3. The vehicle shall be based on the manufacturer's latest commercial product and include the specifications and performance requirements listed in this document.
4. The vehicle, attachments and accessories shall have successful in-service histories or verifiable evidence of successful acceptance testing in Canada.
5. The vehicle shall be complete with all accessories customarily furnished and installed on this vehicle whether specified or not to enable the vehicle to function reliably, effectively, and efficiently under all conditions of service.
6. The vehicle is to operate reliably, effectively, and efficiently in severe weather conditions. Temperatures ranging from -40C to +40C, up to 100% relative humidity and in all types of precipitation.
7. 20lb ABC fire extinguisher (with cover) is to be mounted on the driver's side of the vehicle, accessible from ground level.
8. Supply a portable hydrocarbon / fuel spill kit with a 20 Litre capacity.
9. All metal parts are to be painted and or coated to prevent corrosion. No bare metal parts or sub-assemblies are allowed. Galvanized parts and assemblies shall not be used on the dump body or within 0.6m of the dump body unless no other suitable substitute material / coating is available. The de-icing products used in the intended application corrode galvanized coatings. The location and function of all galvanized parts and assemblies are to be identified in RFP.
10. Fuel capacity sufficient for in service operation of the vehicle continuously for a minimum of 9 hours.
11. Supply two spare filters for each filter point on the vehicle (air, fuel, oil, etc.).
12. Warranty shall be a minimum of 1 year bumper to bumper and 5 years on engine and power train. State actual.

Engine / Transmission

13. The engine shall be a Teir 4 certified diesel engine with a minimum of 261 KW (350 hp) at 2000 RPM and 1,356 NM (1,000 lb/ft) of torque at 1200 RPM.
14. Engine exhaust aftertreatment system to be automatic over the road regeneration type with a dash mounted regeneration request switch. System to be configured to allow for active regeneration while completing regular operations at 40 kph or less with the PTO engaged.
15. The transmission shall be an automatic type with a minimum of 4 forward speeds.



16. All fluid systems shall have a filtration system. All fluid filter replacement elements shall be of a spin on type.

Vehicle Cab

17. The operator cab shall be able to maintain a minimum temperature of 15C and a maximum temperature of 25C when outside weather conditions are within the prescribed vehicle operating range as listed in section 6.
18. The windscreen, side windows and the interior of windows and all surfaces are to remain clear of rain, snow, frost, ice and condensation when outside weather conditions are within the prescribed vehicle operating range as listed in section 6.
19. Cab mounted exterior mirrors are to be power adjustable from the operator's position and heated. Mirrors are to be minimum 18cm by 40cm with an additional 20 cm, adjustable convex mirrors mounted on both sides.
20. As required, additional 20-30 cm mirror(s) shall be mounted so that the operator can view the left and right plough corners when the plough is swung fully left or right if they cannot be observed from the seated position on the driver's side.
21. Both the driver's and passenger's windows are to be electrically powered and operable from the driver's seated position. When fully lowered, the glass shall not extend above the door frame.
22. Sufficient grab handles or rails shall be in place to allow safe access / egress from either side of the cab while always maintaining three points of contact.
23. All routine service check, fluid inspection / check ports, fluid fill ports and lubrication points shall be easily accessible from the ground level, or via an integral stairway or catwalk, and shall not require the removal or relocation of the plough push/lift frame or access cover panel(s). All cover panels that are required to be opened to access service points shall be hinged and if lifted vertically shall have assistive lifting cylinders to counterbalance the weight and safely hold the panel in the open position during servicing.
24. Cab shall have a maximum noise level of 83 dBA at 70 kph and with all attachments and/or accessories operating. State actual and test methodology used to obtain noise level measurement.
25. Driver's seat to be a heated high back air ride seat with adjustable supports to allow the operation of the vehicle for up to 8 hours in comfort and without fatigue. A high back cloth passenger seat shall be provided.
26. Hood shall be able to be opened without disconnecting or moving the plough push / lift frame or any other equipment, accessories, and attachments.
27. Cab shall be equipped with a removable winter front that will remain secure during the intended service application.
28. Cab colour shall be the vehicle manufacturers commercial white.



29. The vehicle is to be supplied with sufficient lighting, mirrors and or cameras for the operator to monitor all protruding portions of the vehicle, and vehicle critical operations while in motion in all lighting and weather conditions.
30. All attachment and accessory electrical, hydraulic and pneumatic connections are to be able to be connected / disconnected safely by a single person, at ground level without tools and without the release of any fluids when outside weather conditions are within the prescribed vehicle operating range as listed in section 6. All connections shall be engineered, equipped and / or marked to eliminate cross-connection and / or misconnections.
31. Notwithstanding any specification listed here, the vehicle shall be equipped with all necessary components, accessories, attachments, and connections for the installation of the TENCO plough and EPOKE spreader. EPOKE manuals and specifications are available as separate documents.

Electrical

32. Switched 12 VDC bus with a minimum of four protected circuits / connection points for accessories and radios to be provided.
33. All lighting to be LED
34. SAE Class 2 LED / Strobe amber warning light(s) mounted so that the light(s) are visible, 360 degrees in the horizontal plane, as measured from the bottom of the warning light(s). Warning light(s) are to be controlled by switch.
35. Minimum two SAE Class 2 LED /Strobe amber warning lights mounted on the dump body side rails facing rearwards. Warning light is to be controlled by switch separate from the main warning light.
36. A battery maintainer is to be installed with a weather protected electrical connection accessible from ground level.
37. A minimum of one USB type A and one USB type C power outlets are to be installed in the cab.
38. A seven pin RV style trailer connection shall be installed/provided.
39. An electric trailer brake controller shall be installed.
40. One Motorola XPR2500 UHF radio and associated antenna shall be installed.
41. One Icom IC-A120 VHF radio and associated antenna shall be installed.
42. Back up / reverse alarm shall be the white noise type.
43. All exterior electrical connections shall be of a weather / dust proof design and prevent the ingress of water, moisture, dust, and dirt intrusion under all conditions of service.
44. System to have a master battery switch that can be operated / accessible from ground level.
45. NATO style receptacle located on the driver's side connected to electrical system. NATO style plug with 4m of cable is to be supplied.
46. Interior cab lights and door lights that illuminate the step when entering or exiting the cab.



47. Connection point inside the cab compatible with GEOTAB 09 telematics device.
www.geotab.com
48. Pavement and ambient air temperature sensor with an in-cab display. Visala or Roadwatch units only.
49. The plow controls shall be a joystick mounted to a movable armrest on the right side of the driver's seat. Moving the armrest shall not require the disconnection or reconfiguring of any controls.
50. 10 conductor 12AWG cooper electrical cable from dedicated junction box / bus from inside of cab to weather and dust proof junction box / buss at extreme rear of frame for control and power wiring for EPOKE spreader. Cable shall be CSA/UL rated for outdoor use in temperatures from -40C to 90C.
51. Rear view camera that will automatically come on when the vehicle is put in reverse. Camera system must be protected and be adequate to operate efficiently in prescribed vehicle operating range as listed in section 6.
52. Rear view camera must have a minimum of 7-meter night vision. Camera to be mounted in an area where it will not interfere with the operation of the EPOKE spreader and where the EPOKE spreader will not impede the camera's operation. The camera is to have an shall have a built-in heater to keep snow, ice and condensation from obscuring the camera lens.
53. The vehicle shall be equipped with a plug-in engine coolant heater and engine oil heater to reliably start when stored outside at temperatures down to -40C.
54. Vehicle shall be equipped with an external electrical master switch and provide connections for a battery charger/maintainer.

Suspension / Chassis

55. Rear axles suspension to be air bag type with the ability for the operator to lower the suspension from inside the cab.
56. Axles and suspension shall have a minimum working capacity of:
57. Steering axle 9,072Kgs (20,000 lbs);
58. Rear Tandem axles 10432 Kgs (23,000 lbs) per axle, or 20,865 Kgs (46,000 lbs).
59. Minimum gross vehicle weight capacity of 29,937 Kgs (66,0000 lbs).
60. All tires supplied shall be manufactured and rated for winter ice and snow conditions and the required load capacity.
61. Steering tires and rims shall be 385/65R22.5. Tandem drive tires and rims are to be 11R22.5 or 12R22.5. All drive wheels/tires are to be the same size.
62. Spare Wheels: one spare steering tire mounted on rim and one drive tire mounted on rim shall be supplied with the vehicle.
63. Towing hitch apron to be provided complete with pintle hitch capable of a minimum capacity of 22.5 MT (50,000 lbs) (Wallace 20440101 or equivalent).



64. Two towing eyes/lugs shall be installed at the front and rear of the vehicle. The tow eye/lugs shall be designed and sized/rate to enable towing and recovery of the vehicle at the maximum Gross vehicle weight.
65. Mud flaps shall be installed for all wheels. Mud flaps shall be installed both ahead and behind rear tandem axle set.
66. The chassis shall have a setback front axle and extended front frame rails to facilitate plough lift frame and or PTO pump.
67. Chassis length shall be no more than 0.6m longer than required to mount the dump body and indicated attachments and accessories. Equipment shall be installed so that any excess space shall be between the cab and the dump body.
68. Supply, install plough push / lift frame to accept owner supplied TENCO model TCP-12-S-42-FKC-HA2, Model # 211 23 0151 plough with TENCO Quik TACH side hitch.

Dump Body

69. Dump body shall be 11.1 m³ (14.5 Cu Yd) minimum, with sides minimum 1.22 m (48 in) high. Notwithstanding the minimum dimensions indicated, the dump body SHALL accommodate the owner supplied slide in material spreader. EPOKE spreader Type No. SH4902 Model No. 49230600 Serial/Unit No. 777024. Technical documentation attached. The proponent is confirm all dimensions and weights of EPOKE unit.
70. Dump body shall be equipped with sufficient and suitable anchor points to secure the EPOKE material spreader during normal service.
71. Dump body tail gate shall be easily removable using regular shop tools and be equipped with sufficient lifting and load control attachment points.
72. Latch mechanism for the tailgate shall be air trip and latch using two air pot boosters.
73. Spreader chains and brackets shall be supplied on tailgate and rear apron, chains shall be grade 70, coil proof, 5/16 minimum.
74. Dump body shall have a shovel rack on both the left and right exterior sides.
75. Dump body shall have a foldable/stowable ladder on both the left and right exterior sides.
76. Electric tarp extension and retraction system, complete with load tarp.

Hydraulic system

77. Hydraulic system shall be designed to allow for the operation, without delay of the owner supplied EPOKE spreader and all plough functions (left, right, lift, lower) simultaneously.
78. The hydraulic reservoir shall have a minimum of 100 litres capacity.
79. The hydraulic reservoir shall be internally baffled.
80. The hydraulic reservoir shall have a level gauge/sight glass and a temperature gauge.



81. The hydraulic reservoir shall have a low oil sensor mounted in the tank and notify the operator of a low oil condition.
82. Quick release type connections for the EPOKE hydraulic power circuit shall be installed on the rear of the frame. Connections shall be designed to mechanically prevent a cross-connect and or misconnection.

Documentation

83. Vehicle to be supplied with 2 paper copies of the operator's manual, 2 paper copies of the parts and service manual along with digital PDF versions of each.
84. Provide a complete check off style preventative maintenance schedule as recommended by the manufacturer for the engine, transmission, PTO, chassis, and all other installed mechanical components.
85. Vehicle to be supplied with current valid commercial vehicle inspection program (CVIP) certificate.

Service Support

86. Manufacturer or dealer must have a parts warehouse and service shop in Canada with full-time service / parts manager. Service shop must be staffed during standard workweek and have a process for providing support within 4 hours outside of normal business days / hours. Relying on drop-shipping parts from outside of Canada is not acceptable.
87. Supplier must have a stock of manufacturer recommended spare parts and routine maintenance parts in Canada that can be delivered to Fort McMurray within 72 hours of order.
88. Suppliers of major components (engines, transmissions, power take offs, power dividers, axles, etc....) must have a dealer/agent in Canada who has supported the components for a minimum of three years. Remote /Telephone technical support must be available during normal business days / hours at no additional cost from the component supplier.
89. Supplier must have a dealer/agent in Canada who has supported airport vehicles and equipment for a minimum of three years.
90. Provide all equipment and materials (computers, cables, connectors, software, and licenses, etc..) required for owner to query vehicle electronic control parameters, fault codes, and to modify vehicle electronic control parameters (within manufacturers pre-determined boundaries) and clear fault codes. Alternative compliance methods will be considered. Provide details.
91. Any specialized tools required for maintenance, repair and servicing of the vehicle are to be provided or to be available for loan within 48 hours.



i Cuyler. Me and Karl did the physical measurements and those are the dimensions we got.

L - 16 ft = 4876.8 mm

H - 6 ft = 1828.8 mm

W - 6.9 ft = 2103.12