

PURCHASE DESCRIPTION

FOR

SLED

SELF PROPELLED

HEAVY DUTY

2 PAX

4 STROKE GASOLINE ENGINE

ECC 140315

NSN 2350-21-886-1669

July 2011

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- 1. INSTRUCTIONS**

1.1 Scope - This document covers **Qty three (3) sleds**, self propelled, heavy duty, 2 PAX, 4 strokes gasoline engine. The purposes of these vehicles are to fill deficiencies and replace vehicles that are presently beyond their life expectancy.

1.2 Instructions - The following instructions apply to this Purchase Description:

- a. Requirements, which are identified by the word “*shall*”, are mandatory. Deviations will not be permitted;
- b. Requirements identified by “*shall (E)*” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an Equivalent;
- c. Requirements identified with a “*will*” define actions to be performed by Canada and require no action/obligation on the Contractor’s part;
- d. Where “*shall*”, “*shall(E)*”, or “*will*” are not used, the information provided is for guidance only;
- e. In this document “provided” shall mean “provided and installed”;
- f. Where technical certification is required, a copy of the certification or an acceptable proof of compliance shall be provided upon request;
- g. Metric measurements shall be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- h. Dimensions stated as nominal shall be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions - The following definitions apply to the interpretation of this Purchase Description:

- a. “Technical Authority” - The government official responsible for technical content of this requirement;
- b. “Equivalent” - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance; and
- c. “Proof of Compliance” - A document such as a brochure, a third party test report, a report generated by third party software, or a certificate of attestation signed by a senior representative of the Original Equipment Manufacturer (such as a certified engineer) indicating the performance and/or feature specified.

2. APPLICABLE DOCUMENTS

2.1 Government Furnished Documents - NOT APPLICABLE

2.2 Other Publications - The following documents form part of this Purchase Description. Web sites for the organization are given when available. Effective documents are those in effect on date of manufacture. Sources are as shown:

a. SAE Handbook

Society of Automotive Engineers Inc.
400 Commonwealth Dr.,
Warrendale, PA, 15096
<http://www.sae.org>

3. REQUIREMENTS

3.1 Standard Design – The vehicle/equipment *shall*:

- a. Be the latest model from a manufacturer who has demonstrated acceptability by manufacturing and selling this type and size class of vehicle for at least 1 year;
- b. Have engineering certification available, upon demand, for this application from the original manufacturer of major equipment systems and assemblies;
- c. Conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture; and
- d. Have system and component capacities not greater than their published ratings (i.e. product or component brochures) or accompanied by proof of compliance.

3.2 Operating Conditions – The vehicle/equipment, under all load conditions, *shall* operate safely and efficiently as follows without appreciable degradation in reliability and maintainability:

- a. **Towing capacity** – The vehicle/equipment *shall* be capable of being operated while towing a minimum load of 200 kg;
- b. **Weather** - The vehicle/equipment *shall* operate under the extremes of weather found in Canada in temperatures ranging from -40 to 10° C (-40 to 50° F);
- c. **Terrain** - The vehicle/equipment *shall* be capable of being operated off-road (e.g. construction sites, open fields and snow covered trails). Terrain conditions *shall* include winter operations on deep snow and ice.

3.3 Safety Regulations – The vehicle should comply with applicable Canadian Federal safety regulations.

3.4 Human Engineering and Safety – The following applies:

- a. All systems and controls should be safe and easy to use by a full range of operators (5th percentile female to 95th percentile male), in general accordance with SAE J833 (ISO 3411) and SAE J898 (ISO 6682);
- b. Safety devices such as warning plates, instruction plates, non-slip surfaces, grab handles and heat shields should be provided, where required, to ensure safe operation.

3.5 Vehicle Delivery Condition – The vehicle *shall* be delivered to destination in a fully operational condition (serviced and adjusted) and both the interior and exterior *shall* be cleaned. If the vehicle requires assembly at destination, the Contractor *shall* be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the equipment, *shall* be listed on the shipping certificate or to an attached packing note.

3.6 Dimensions – The following *shall* be provided:

- a. A minimum rear suspension travel of 210 mm;
- b. A minimum track length of 3800 mm;
- c. A minimum track width of 480 mm.

4. CHASSIS AND POWER TRAIN SYSTEMS

5/2! Fohjof !Tztuf n t !ò!Ui f !gmpx joh!bqqrjft ;

- b/ Ui f !f ohjof !ejt qrbdf n f outi brrcf !burfht u5: 1!dd
- c/ Ui f !f ohjof !ti brrcf !rjr vje!dpprfe
- d/ Ui f !f ohjof !ti brrcf !bwf !b!n jojn vn !pgux p!)3*!dzrjof st
- e/ Ui f !f ohjof !ti brrcf !b!5.t uspl f !f ohjof
- f/ Fyi bvt uqjof !boelt qbs !bssf t yoh!n vgrfst i brrcf !qspwjef e
- g! Gvf rhuqf !ti brrcf !vorfbef e!hbt prjof !

5/3! Gvf rhuqf !ò!Ui f !gmpx joh!bqqrjft ;!

- b/ B!n jojn vn !41!rjuf st !gvf rhuqf !dbqbdjuz!ti brrcf !qspwjef e
Gvf rhuqf !dbq!ti pvre!joejdbuf !ù f !vt f !pg!hbt prjof !gvf rhuqf
- c/ Gvf rhuqf !boe!gvf rhuqf !dbq!ti brrcf !joejdbuf !ù f !rfwf r!pggvf rhuqf !ù f !ubol !

5/4! Usbotn jttjpo!ò!ù f !gmpx joh!bqqrjft ;!

- b/ B!n jojn vn !pgpof !gsx bse!boe!pof !sf wf st f !hf bst i brrcf !qspwjef e!

5/5! Csbl ft !ò!Ui f !gmpx joh!ti brrcf !qspwjef e;!

- b/ I zesvrrde!ejt d!csbl f
- c/ B!qbs joh!csbl f !

6! CPEZ!TZTUFN T!

6/2! Cpez!Gf buwsft !ò!Ui f !gmpx joh!ti brrcf !qspwjef e;

- b/ Sfb!dbshp!cpy!db! !cf i joe!ù f !tf bu
- c/ X jef !t! jt!x ju !qrbt yd!rjof st !boe!dbscjef !svoof st !

6/3! Tf bujoh!boe!Esjwf sQbt tf ohf s!Dpn qbsun f ouò!Ui f !gmpx joh!ti brrcf !qspwjef e;!

b/ B!tf bujo!b!3.vq!t uzrhl!gplux pl!)3*!bevnt!esf ttf eljoli f bwz!drpu joh<

c/ B!ubrtx joet i jf ræ<

d/ B!cbd sf t ugslü f !qbt tf ohf s<

e/ Njsspst!po!f bdi !tjef !pgü f !wf i jdrh<

f/ I f buf e!ü spurh!rfwf s!boe!hsjqt!!

6/4! Dpousprh!boe!Jot usvn f out!ò!Ui f !gmpx joh!bqqrf t;!

b/ Frhdusj dbrt!ubsjoh!x ju !n bovbrtsf dpjrtcbd! .vq!ti brrcf !qspwjef e<

c/ Tqf f epn f uf sti brrcf !qspwjef e<

d/ Gvf rthbvhf !ti brjF*!cf !qspwjef e<

e/ I pvs!n f uf sti brrcf !qspwjef e<

f/ Hf bsljoejdbupsti brrcf !qspwjef e!Ui f !hf bsljoejdbupsti brrcf !bt!b!n jojn vn -!
n bsl joht!polboeQpsblef dbrtof yuup!ü f !hf bst f rhdups!rfwf s!boe!

g! B!üf ü f st x judi !up!wso!pggü f !f ohjof !boeQps!up!t upq!ü f !wf i jdrh!jo!ü f !f wf ouü bu
ü f !pqf sbups!gbrh!pggevsjoh!pqf sbjpol!ti brrcf !qspwjef e!

7/! FMFDUSJDBMTZTUFN T!ò!Ui f !gmpx joh!ti brrcf !qspwjef e;

b/ I f bwz.evuz!n bjouf obodf .gff !cbuf sz<

c/ B!23W!pvufh!jo!ü f !esjwf sQbt tf ohf s!dpn qbsun f ou

8/! N JTDFMMBOFPVT!

8/2! Tqf djbrtFr vjqn f ouò!Ui f !gmpx joh!ti brrcf !qspwjef e;

b/ B!t upsbhf !dpwf s<

c/ B!sf bsn pvouf e!i johf e!i judi !qrtaf !!

8/3! Dprpvs!ò!Ui f !gmpx joh!bqqrf t;!

b/ Ui f !dprpvs!pgf yuf sobrt!vsqdf t !jt !bt !qf s!N bovqduvsf s!t !t uboebse!dprpvs!

8/4! Upprt!ò!Ui f !gmpx joh!bqqrj! t ;!

b/ B!cbtjd!uprti jut i brjF *!cf !qspwjef e!x jü !f bdi !wf i jdrh!<

Ui f !uprti!t i pvra!cf !t upsf e!jo!b!cbh!boe!t i pvra!jodmef -!bt !b!n jojn vn -!uprti
t qf djgd!up!ü f !wf i jdrh!gsl!spbet jef !n bjouf obodf /!

8/5! Jef u!jgdbjpo!Qrbu!f !ò!Ui f !gmpx joh!jogsn bjpo!t i brtcf !qspwjef e!bt !b!n jojn vn -!
qf sn bof ourz!n bs! f e!boe!jo!b!dpo!t qj dvpvt !boe!qspu!f duf e!rpd!bjpo;!

- Q N bovqduvsf s<
- Q N pef næ
- Q N pef rtzf bs<
- Q Tf sjbrtövn cf s<
- Q Hspott!Wf i jdrh!X f jhi uSbjoh!)HWX S*!<
- Q OBUP!T!pdl !Ovn cf s!)OTO*!<
- Q Fr vjqn f ouDpoghvsbjpo!Dpef !!)FDD*!<
- Q Dpousbd!lovn cf s!

8/6! Fr vjqn f ou!Mpd!bjpo!boe!Mbzpvu!ò!Mpd!bjpo!boe!rbzpvu!gsl!vojr vf !dön qpof out !t vdi !
bt !ü f !crbd! pvultx jüdi !t i brtcf !t vck! d!up!sf vj!f x !boe!bdf! q!boodf !cz!ü f !Uf di ojdrh
Bvü psjuz!

9/! JOUFHSBUFE!MP HJTUJD!TVQQP SU!ò!Ui f !Dpousbd!upst!sf r vj!sf e!up!f ot vsf !ü bul! qbsf !
qbst !sf r vj!sf e!up!qspqf sz!n bjou!bjol!boe!sf qbj!sdön qrhü e!wf i jdrh!bsf !bw!bjr!brh!gsl!qv!sd! bt f !
gsl!b!qf sjpe!pg21!zf bst /

9/2! Epdvn f oubjpo!x jü !f bdi !wf i jdrh!ò!Ui f !Dpousbd!upst i brmqspwjef !ü f !gmpx joh!
epdvn f out!x jü !f bdi !wf i jdrh;!

b/ Wf i jdrh!N bovbrt!ò!Ui f !wf i jdrh!t i brtcf !qspwjef e!x jü !brtn bovbrt!sf r vj!sf e!gsl
ü f !t bg!p!qf sbjpo!n bjouf obodf !boe!sf qbj!spgü f !wf i jdrh!boe!brt!vc.tztüfn t -!
bulbdi n f out -!dön qpof out !boe!bdf t!t psj!t !jodmef e!jo!ü f !wf i jdrh!t vqqrj!f e!Ui f !
gmpx joh!n bovbrt!t i brtcf !qspwjef e;!

j/ P qf sbups!t !N bovbrt!ò!P qf sbups!t !N bovbrt!t i brtcf !qspwjef e!jo!b!cj!rjohvbrh
gpn bulpsbt !3!n bovbrt!j!ol!bt!johrh!cj!oef s!)pof !Fohrjt i -!pof !Gsf odi *!P qf sbups!t !
N bovbrt!t * t i brtcf !t vqqrj!f e!jo!q!bqf slgpn bu!Ui f !P qf sbups!t !N bovbrt!t i brn
jodmef ;!

Q Jbt usvdjpot!gplü f !tbg !pqf sbjpol!pgü f !wf i jdrh<

Q Ebjr!pqf sbpsln bjouf obodf !jot usvdjpot (di f dl t!)jodmæjoh!mæsjdbjpo* <

Q Tbg uz!x bsojht;!boe!

Q I boe!tjhobr!)bt!of dfttbsz*!

jj/ Qbst!N bovbrr!ò!Ui f !Qbst!N bovbrr!ti brrcf !jo!Fohrjt i !)Gsf odi !usbot rbjpoljt!
eftjsocrf*!Ui f !Qbst!N bovbrr!ti brrjodmæf ;!

Q Jmrt usbjpot !ti px joh!brr!pn qpof out!pgü f !wf i jdrh!jodmæjoh!f r vjqn f ou
boelbdcf ttpsf t!gpn !pu f sln bovgdusf st!ü bujt!t vqqrjfelgplü f !
sf r vjsf n f out!pgü f !dpousbu!Ui f !jmrtsbjpot !ti brrh bvf !ovn cf st!gplü f !
juf n j{bjpol!pgü f !qbst <

Q B!rjt ujoh!gplbrr!juf n j{fel n bovgdusf st!qbst !ti px joh!ü f !n bovgdusf st!
qbslovn cf slpgü f !jmrtsbjpo-ü f !qbslobn f !boe!b!csjf gelf t dsjqjpol!pgü f !
juf n <boe!

Q Dpott!sf gsf odf !sf rbjoh!ü f !n bovgdusf slqbslovn cf slup!ü f !dpsf düghvsf !
boeljuf n !ovn cf s!

jjj/ N bjouf obodf !)Ti pq!Sf qbjs*!N bovbrr!..!Ui f !N bjouf obodf !)Ti pq!Sf qbjs*!
N bovbrr i brrcf !jo!Fohrjt i !)Gsf odi !usbot rbjpoljt!ef tjsocrf*!Ui f !N bjouf obodf !
)Ti pq!Sf qbjs*!N bovbrr!ti brrjodmæf ;!

Q B!uspvcrr!ti ppjoh!hvje f -!ti px joh!ü f !t uf qt!boe!ü f t ut!sf r vjsf e!up!
ef uf sn jof !ü f !fybdudbvt f !pgb!qspcrfn !boe!bol f yqrbobjpol!pgx i but uf qt!
x pvre!cf !sf r vjsf e!up!dpsf düb!qspcrfn <

Q B!rjt ujoh!pgü f !of dfttbsz!uprnsboodf t-!upsr vf !rfwf rh!gmjelwprn f t!sf r vjsf e!
boe!b!t f djpo!rjt ujoh!boz!t qf djbrhuprr!)jodmæjoh!juf n !qbslovn cf st* <

Q Jbpsn bjpol!po!ü f !psef slpgejt bt t f n crz!boe!bt t f n crz!pgü f !tztuf n t!boe!
qpn qpof out!pgü f !wf i jdrh<boe!

Q Dpn qrfuf !f rhdusj dbrtejbhson t/!

jw N bovbrr!po!DE Æ WE . SPN !. !B!dpqz!pgü f !n bovbrr!po!DE Æ WE . SPN !
ti brrcf !qspwje f e-!jgbwbjrbcrf!Ui f !ti brrjodmæf !brrh f !n bovbrr!qspwje f e!jo!
drbvt f t!j-!jj-!boe!jjj!bcpwf !/Qpsvt bcjrnuz-!DE Æ WE . SPN !ti brrtopusf r vjsf !
qbttx pse!boe!qps!Juf sof udpoof djpo!up!cf !bdcf ttf e!/P qf sbps!t!n bovbrr!ti brrm

:

brtp!cf !tvqqrfj e!jo!qbqf slgpn bu!

w/ Tbn qrfh!N bovbrtlò!OPU!BQQMDBC MF!

Opuf t;!
Jb!ú f !f wf ouú buú f !n bovbrtlbsf !opubwbjrbcrh!buljn f !pgt i jqn f ou!qspwjt j pobrn
n bovbrt i brrf bddpn qboz!ú f !wf i jdrh! r vjqn f ou!Qspwjt j pobrn bovbrt i brrf !drfbsz!
jef oujgf e!x jú !ú f !x pse!i QSP WJJP OB Mf!Qspwjt j pobrn bovbrt i brrf !sf qrbdf e!
x jú !bqqspw e!n bovbrtlup!brt i jqqjoh!rpdubjpot !x jú jo!41!drfhoesbsz!pgsf df jqupg
bqqspwbrtpgn bovbrt!

c/! X bssbouz!Mf uf s!ò!B!qbqf slpqz!pgú f !dpn qrfh e!cjrjohvbrtX bssbouz!Mf uf sx jú !
f bdi !wf i jdrh! i jqqf e!jo!ú f !bqqspw e!gpn bu!Ui f !Dpousbdupst i brrf oe!b!dpqz!pg
ú f !X bssbouz!Mf uf s!jo!f rhduspoj!gpn bu!up!ú f !Uf di ojdrfBvú psjuz!gpf bdi !
wf i jdrh!but i jqn f ou!Eft jhobf e!x bssbouz!qspwje f st !t i brti popvs!ú f !x bssbouz!
rhuf s!

9/3! Epdvn foubjpoQlf n t!up!ú f !Uf di ojdrfBvú psjuz!ò!Ui f !Dpousbdupst i brrf qspwje f !
ú f !gmpx joh!epdvn f out!up!ú f !Uf di ojdrfBvú psjuz;!

E bub!Tvn n bsz!ò!OPU!BQQMDBC MF!

b/! Qí puphsbqi t!ò!OPU!BQQMDBC MF!

c/! Qsf wf oujwf !N bjouf obodf !Sf qrbdf n f ouQbst !L juMjt u. !B!rjt upgqbst !of f ef e!up!
qf sgpn !qsf wf oujwf !n bjouf obodf !po!pof !wf i jdrh!gpsb!7. n pou !qf sje!psl
f r vjwbrhoubn pvoupgi pvst !B!dpn qrfh !di boh f !pgbrtjrd st !boe!grf sf rhn f out !
t i brrf !jodnref e!Ui f !rjt ux jntcf !sf wj x f e!bn f oef e!)jgsf r vjsf e!*!boe!bqqspw e!
cz!ú f !Uf di ojdrfBvú psjuz!Ui f !rjt ut i brtjodnref !ú f !gmpx joh!f rhn f out;!

j/! Qbslef tdsjqjpo-ł

jj/! PshjbrtFr vjqn f ouN bovgdvuf s!Qbslovn cf s-ł

jjj/! Tvhhf t f e!r vbojuz-łboe!

jw/! Vojudpt u!

d/! Mjt upgTqf djbrtUprrt!.!Ui f !Dpousbdupst i brrf qspwje f !brjt uef ubjroh!ú f !t qf djbrh
uprrt!sf r vjsf e!gslú f !wf i jdrh!ú bux pvre!opulcf !jodnref e!jo!bn f di bojdt !uprpy/!
Ui jt !x pvre!jodnref !juf n t !t vdi !bt !t qf djbrt sf odi f t -!psf yusbujpolef wjdf t !boe!
t qf djbrtjohopt yd!uprrt-ł

e/! Tbgf uz!Sf dbrn!boe!Tf swj d'oh!E bub!ò!Ui f !gmpx joh!jogsn bujpol!jt !sf r vj sf e!up!cf !
qspwjef e!up!brn!vt upn f sl'p d'bjpot -!po!b!dpoujovjoh!cbit jt -!u spvhi pvuü f !rjgf !
f yqf dubodz!pgü f !wf i j d'rh!psl'g'slop!rft t !ü bo!21!zf bst ;!

j/! Tbgf uz!Sf dbrn!boe!

jj/! N bov'gdv'sf st !ü d'f oj d'brn!Tf swj d'f !Cvrrh'ujot -!psf r vj wbrhou!

OPUF ;!Ui jt !t f swj d'f !d'bo!cf !n bef !bwj r bcrh!bt !bo!Jouf sof uTf swj d'f !/!

f/! Cspdi vsf t !ò!Vq. up. ebu!cspdi vsf t !boe!pu f sbqqrj r bcrh!jogsn bujpol!g'sf bdi !
n bl f 0n pef r b'pogj hvs bujpol!t i brn!cf !t vqqrj f e!up!ü f !!Uf d'f oj d'brn!Bvü psj uz/!