

Village of Pemberton

PUBLIC WORKS DEPARTMENT

RFP SPECIFICATIONS SHEET

VEHICLE ID: RFP 2018-04

**Supply and deliver a 4wd Backhoe
with extendahoe**

VEHICLE TYPE:

This unit will be used by our various municipal departments for duties such as snow and trenching. They will operate in snow covered winter climates as well as in the sun and must meet all the requirements of Worksafe BC and OSHA. These machines shall meet all the requirements.

	General Description	Mandatory Specifications
1	Model:	4wd Backhoe w/ extendahoe
2	Machine Overall Width:	Maximum: 92 inches
3	Net Engine Output @ Flywheel:	Minimum: 93 HP (69kW)
4	Net Engine Peak Power @ 1800rpm	Minimum: 105HP (78kW)
	Net Peak Torque @ 1400 RPM	Minimum: 320ft-lb (435 N-m)
5	Engine Tier:	Minimum: Tier 3 Final (Prefured Model)
6	Efficiency	Fuel Economy Control Function
	Engine Priming Pump	Electric Fuel Priming Pump
	Water Seperator	Water/ Sediment bowl with water seperator Service indicator light
	Fuel Filter	Minimum Primary: 10 micron Minimum Secondary: 4 micron
7	Blockheater:	Installed
8	Cold Weather Package:	For cold starting to -25°C without ether
	Cold Weather Engine Protection	Minimum -37°C with extended life antifreeze with minimum 5 years before replacing
9	Transmission/Differential:	Fully Automatic 4forward, 3reverse
		2WD with an option to switch into 4WD
		4WD to be able to engage anytime by activating switch on console whether moving or stopped and also with a load
	Alternator Output:	Minimum: 150 Amps
	Battery	2 x maintenance free 880CCA
	Battery Disconnect Switch	Installed
	Engine Air Filter	Pre-cleaner and Dust ejector
	Automatic Engine Speed Control	Reducing engine speed when backhoe is not in use
10	2WD/4WD	Electrically selected 4wd

11	Bucket Lift Breakout Force:	Minimum: 11000 lbs
12	4 in 1 Bucket:	Minimum Width: 90"
13	Safety:	
a		ROPS
b		Seat Belt
c		Turn signals
d		Hazard Lights
e		LED Rotary light installed
f		mounted on rear of cab: slow-moving vehicle sign
14	Joystick operation:	Bucket (4-in-1), Thumb and Boom
15	Snowplus Tires:	Rubber with Snoplus tread pattern
16	Extendable diggin Arm:	Extendable Length Digging Arm
17	Digging Arm Width:	Maximum: 10inches
18	1Way/2Way Control Valve:	For thumb
19	Thumb.Hammer Hydraulics	All hoses plumbed and installed:
20	Heater:	Cab/canopy heater
21	Aux Quick connects:	Installed

COMPANY:

RFP SPECIFICATIONS SHEET

	General Description	Mandatory Specifications
23	Cab	
a		Fully Enclosed Lockable Factory Cab
		Operator control to disable, or lock, the backhoe Pilot Controls with a single switch on the console.
		Backhoe Pilot Controls locking switch shall always indicate the correct state of the controls, "locked" or "unlocked," and be lit when "locked".
		Engine RPM also be controlled by Electronic rotary dial
		Standard air suspension seat w fore and aft adjustments and release for 180 degree swivel
b		Air conditioning
c		Heater/Defroster/Pressurizer
d		Windsheild Defrosters
e		Intermitant Wipers Front and Rear
f		Air-ride Susp. Seat w/arm rests
g		Pull down Sun Visor
h		Radio w/ Bluetooth and Aux. Input
i		Tilt/ telescopic Steering Column
j		Sun Visors
k		Electric Hoe Pattern Change Switch
l		Dual Doors
m		Tinted Safety Glass
n		Molded Floor Mats
p		Auto Engine Speed Control
	Electric Auxiliary socket on roof for aux connections with operator accessible switch inside the cab	
q	Located on joystick: On the Fly Differential Lock	
r	Inside the cab: Maximum Sound Level: 79dba	
s	Pilot Controls	
t	Front and Rear window washer	
24	Warning Display Functions:	Service Due, Air Filter Warning, High Engine/Trans Temp Warning, Fuel Water Seperator Warning Light

25	Hydraulics:	Hydraulic pump rating of 43gpm (163lpm)
		Must have auxiliary flow control for best attachment controllability
		Flow sharing valves for machine multifunctionality Maximum Hydraulic pump pressure minimum 3600psi for Backhoe and 3600psi for loader
22	Hydraulic Bucket Thumb:	Installed
a	backhoe:	Bidirectional Proportional Aux. Hydr.
b	loader:	Aux hydraulics for loader equipment
c	Must capable of operating the functions of the following listed implements:	Compactor, Front mounted 5-Way
d		Blade, Sweeper, 4 in 1 bucket, Hoe
e		Pac Compactor,
26	Locking ToolBox:	Securly mounted to exterior
COMPANY:		

RFP SPECIFICATIONS SHEET

General Description

Mandatory Specifications

	General Description	Mandatory Specifications
27	Backhoe:	Center-Pivot type with Hydraulic Stabilizers
a		Minimum digging depth: 14ft. 4in.
b		Boom Width no wider than 10"
c		Hydraulic quick coupler
d		Cat style lugging
e		6 Function
f		Minimum: 8 cu. Ft. buckets
g		Extenda boom
		Backhoe joystick equipped with quick idle down feature; lowers engine speed
h	Clean up bucket:	Minumum width: 40 inches
i	Digging bucket:	Minumum width: 24 inches
j	Trenching bucket:	Width: 12 inches to 14 inches
k		Thumb installed
l		Curved Boom for confined area work
m	Rated Bucket Digging Force	Minimum : 14200lbs Extendable Stick
n	Stick Digging Force	Minimum: Extendable Stick 9700lbs
o	Backhoe Bucket	Minimum: 205° of bucket rotation
p	Backhoe	Minimun Cushioned swing arc: 180 degrees
		all sticks shall be thumb ready with thumb cylinder mounts and stops, thumb must be able to be added without welding
q		Extendable stick shall be self lubricatring, adjusted with shims and require no grease
		Exterior mounted boom cylinder for serviceability
		Stick cylinder shall be Exterior mounted for serviceability
		Swing lock for transport
		Boom lock that is controlled from the seat
		Stabilizer Lock Valves
		Excavator style pilot operated joystick controls controls

	Loader:	
28		Integrated tool carrier(front loader) shall be controlled by pilot operated controller
		Continuous flow button to allow the operator to set Aux Hydraulic flow
		Parallel lift/ mechanically integrated for reliability
		Removal of bucket and attachment of alternative tools must be accomplishable from inside the cab with the exception of connecting the hydraulics
		Return to dig mechanism
		Multi purpose bucket shall be operated by a thumb control on the loader joystick
a	4 in 1 Bucket:	Minimum Width: 90"
b		Two function
c		Cat Style Lugging
		Pilot Loader Controls
d		Hydraulic Quick Coupler
e		Self Leveling
		Minimum Breakout force of 11000lbs(49kN)
		Minimum lift capacity 7500lbs(3400kg)
f		Hydraulics and Electrics to run a Sweeper Broom
29	Exterior lighting	Rotary (or LED)beacon light
a		Full 360 Ground Lighting
b		2 Front Halogen Flood Lamps
c		2 Side Halogen Flood Lamps
d		4 Rear Halogen Flood Lamps
30	Loader Forks:	Cat style lugging
31	Ride Control:	Automatic
32	Counterweight:	Minimum: 750 pound
33	Skid Plates:	To protect bottom of machine
34	Minimum Travel Speed:	40 km/h
35	Additional Battery:	Too assist with cold starts

COMPANY:

RFP SPECIFICATIONS SHEET

	General Description	Mandatory Specifications
36	Jump Start Terminals:	Easy access w/master disconnect
37	Reversible Stabilizer Pads:	Installed

38	Rear Fenders:	Installed
39	Loader Quick Coupler:	Hydraulic "Cat" Style Installed
40	Backhoe Quick coupler:	Hydraulic "Cat" Style Installed
42	Extendable diggin Arm:	Extendable Length Digging Arm, SAE Standards rated bucket digging force 14,400lb(64kN) standard stick, 14,200lb(63nK) extendible stick
	Serviceability:	
		Transmission, differential and hydraulics must have separate fluid resevoirs
		Engine oil, transmission oil, hydraulic oil, brake fluid, washer fluid, coolant, engine air filter, and engine air filter monitor shall all be consolidated service points, accessible under the hood with loader arms down.
		cooling package, including radiator, transmission oil cooler, hydraulic oil cooler, fuel cooler and ATAAC shall be easily accessible without use of tools.
		Batteries accessible without the use of handtools and unit shall come standard with Easy access jump posts
		Swing cast utilize serrated pins and dimpled bearings for grease rotation
		Swing frame to have replaceable bushings installed in the pin joints for the boom, swing cylinder rod ends and swing post
		rear axle to have brake wear check ports, for access to inspect brake pad wear
		Water sediment to be drained from the fuel/water seperator from a standing position without tools
General Description		Requested Specifications
43	Service and Parts Manuals:	CD, Paperback and Web access
44	Keys:	5 complete sets upon delivery
45	Parts Purchasing Discount:	please specify:
46	Powertrain Warranty:	please specify:
COMPANY:		

RFP SPECIFICATIONS SHEET

PRICE SCHEDULE

1	Base cost of vehicle
2	Cost of vehicle options
3	P.D.I. and Delivery
4	Environmental Levy
5	Any additional costs (specify)
6	Fleet and/or Government discount
7	Sub Total
8	Goods and services tax (GST)
9	Provincial sales tax (PST)

- Unit to be F.O.B. Village of Pemberton, 7400 Prospect St
Expected Delivery Date:

Note: All specifications are minimum acceptable specifications. Alternatives "brand names" will be acceptable, if approved by the Village of Pemberton F
Please provide information on " Alternatives ", use additional sheets if requir

NOTES:

Contact Name: _____ Phone: _____

Supplier Signature: _____ Date: _____

COMPANY:

USED _____ NEW x _____

removal, ground work, sweeper, culvert installations
immer on both on highway and off road environments
ould be of a sufficent design to accomplish these

Proposed Specifications

Bidder Initials:

VEHICLE ID: RFP 2018-04

Proposed Specifications

Bidder initials:

VEHICLE ID: RFP 2018-04

Proposed Specifications

Bidder initials:

VEHICLE ID: RFP 2018-04

[Redacted]
reet, Pemberton BC, V0N 2L0
[Redacted]

to specified
Public Works Department
ed.

Bidder initials: