



**THE CORPORATION OF THE CITY OF NIAGARA FALLS  
 REQUEST FOR QUOTATION-SUPPLY  
 RFQ38-2021  
 SUPPLY & DELIVER ONE (1) DRUM TYPE BRUSH CHIPPER**

**SPEC. #47A-6  
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**SPECIFICATIONS AND CONFIRMATION**

**GENERAL SPECIFICATIONS**

This specification covers the supply of a new current model year drum type brush chipper.

Bid submitted will be considered non-compliant where minimums are not met and "NO" is specified. No alterations, changes or additions to a factory build will be accepted unless otherwise requested.

**DETAILED SPECIFICATIONS**

**SPECIFY**

1. **MAKE AND MODEL**

Example only: Bandit 15XPC or approved equivalent

YEAR	_____
MAKE	_____
MODEL	_____

2. **DIMENSIONS**

**SPECIFY**

Length overall	_____ in.
Height to top of chute	_____ in.
Width overall	_____ in.
Weight	_____ lb.

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**SPECIFICATIONS AND CONFIRMATION**

**3. ENGINE**

**SPECIFY**

165 H.P. minimum, gas, liquid cooled engine,

\_\_\_\_\_ Yes or No

MAKE \_\_\_\_\_

MODEL \_\_\_\_\_

Displacement

\_\_\_\_\_ cu. in.

H.P. at rated r.p.m.

\_\_\_\_\_ h.p.

at \_\_\_\_\_ r.p.m.

The following engine equipment shall be supplied:

Automatic low idle activation when not under load

\_\_\_\_\_ Yes or No

High engine temperature shut down

\_\_\_\_\_ Yes or No

Low oil pressure shut down

\_\_\_\_\_ Yes or No

Restriction indicator on air cleaner

\_\_\_\_\_ Yes or No

Spark arrestor muffler

\_\_\_\_\_ Yes or No

12 volt 1,000 CCA battery

\_\_\_\_\_ Yes or No

Battery box aluminum

\_\_\_\_\_ Yes or No

Alternator 140 amp. minimum

\_\_\_\_\_ amp.

113 litre minimum fuel tank

\_\_\_\_\_ L.

Lockable fuel filler cap

\_\_\_\_\_ Yes or No

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**3. ENGINE (Cont'd)**

**SPECIFY**

The following gauges shall be supplied:

Amp gauge	_____ Yes or No
Voltage gauge	_____ Yes or No
Oil pressure	_____ Yes or No
Temperature	_____ Yes or No
Tachometer	_____ Yes or No
Hour meter	_____ Yes or No

**4. HYDRAULICS**

**SPECIFY**

Open center	_____ Yes or No
Pump 13 GPM minimum	_____ Yes or No
2,500 PSI relief pressure	_____ Yes or No
The feed wheels shall be powered hydraulically with an electronic auto feed control	_____ Yes or No
The hydraulic system shall be provided with a reservoir, pump, relief valve, controls, shut-off valve and all lines and fittings required for the proper operation of the unit	_____ Yes or No
Hydraulic tank 12 gallon minimum	_____ gal.
Hydraulic oil level sight gauge	_____ Yes or No
The reservoir shall be equipped with:	
A 10 micron suction filter	_____ Yes or No

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4. **HYDRAULICS (Cont'd)** **SPECIFY**
- A 3 micron return line filter \_\_\_\_\_ Yes or No
- A ball-type shut-off valve on suction line \_\_\_\_\_ Yes or No
- 
5. **TRAILER** **SPECIFY**
- Tongue weight \_\_\_\_\_ lb.
- Single 8,000 lb. min. Torflex axle or approved equivalent \_\_\_\_\_ Yes or No
- Ring eye pintle hitch, 2 1/2" diameter, 8" adjustable height \_\_\_\_\_ Yes or No
- 2 safety chains 5/16", Grade 70 with spring loaded latch hooks \_\_\_\_\_ Yes or No
- Heavy duty tongue jack 8,000 lb. capacity with 15" travel and foot pad \_\_\_\_\_ Yes or No
- 12 volt electric brakes with breakaway actuator \_\_\_\_\_ Yes or No
- Aluminum chock holders \_\_\_\_\_ Yes or No
- Rubber wheel chocks, two (2) \_\_\_\_\_ Yes or No
- Hoop style cone holder \_\_\_\_\_ Yes or No
- Flag holders with flags included \_\_\_\_\_ Yes or No
- Lockable aluminium toolbox \_\_\_\_\_ Yes or No
- Mud flaps (2) \_\_\_\_\_ Yes or No
- 
6. **LIGHTS AND WIRING** **SPECIFY**
- All lighting as required by law for street operation including stop, directional, tail and license plate lights \_\_\_\_\_ Yes or No

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6. **LIGHTS AND WIRING (Cont'd)** **SPECIFY**
- All lights to be L.E.D., \_\_\_\_\_ Yes or No
- Tail light covers \_\_\_\_\_ Yes or No
- Two rear facing L.E.D. scene lights for feed tray and surrounding work area \_\_\_\_\_ Yes or No
- 
7. **FEED SYSTEM** **SPECIFY**
- Two horizontal feed wheels \_\_\_\_\_ Yes or No
- Feed rollers shall have adjustable spring tensioners with additional hydraulic cylinder to lift upper feed wheel when crushing limbs \_\_\_\_\_ Yes or No
- Feed wheel motor torque 12,800 inch/pounds minimum each feed wheel \_\_\_\_\_ Yes or No
- Feed wheel pulling power 2,400 pounds minimum each feed wheel \_\_\_\_\_ Yes or No
- Distance from pinch point to end of feed table approximately 63 inches minimum \_\_\_\_\_ in.
- Fold down infeed tray 30" minimum \_\_\_\_\_ Yes or No
- Infeed tray to include a safety control bar located on three sides of infeed hopper to allow actuation of feed wheels forward/neutral/reverse \_\_\_\_\_ Yes or No
- Infeed hopper dimensions 30" high x 54" wide minimum \_\_\_\_\_ in. h x \_\_\_\_\_ in. w
- 
8. **CHIPPER UNIT** **SPECIFY**
- Drum size shall be 24 inch diameter minimum \_\_\_\_\_ in.
- Drum speed 1,500 rpm minimum \_\_\_\_\_ r.p.m.

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8. **CHIPPER UNIT (Cont'd)** **SPECIFY**
- Knives are to be made of hardened tool steel \_\_\_\_\_ Yes or No
- Knife pockets (4), each pocket holds one knife \_\_\_\_\_ Yes or No
- Knives are to be 5/8" thick x 5 1/2" wide x 9" long minimum \_\_\_\_\_ Yes or No
- Anvil to be 4-sided 1/2" thick x 6' x 18" \_\_\_\_\_ Yes or No
9. **DISCHARGE CHUTE** **SPECIFY**
- Discharge chute shall be of heavy gauge sheet metal construction \_\_\_\_\_ Yes or No
- Manual three (3) position chip deflector \_\_\_\_\_ Yes or No
- It shall swivel 360°, hand crank swivel \_\_\_\_\_ Yes or No
- Method of rotation shall be crank operation \_\_\_\_\_ Yes or No
10. **SAFETY CONTROL** **SPECIFY**
- Drum safety disconnect so engine cannot start when servicing knives \_\_\_\_\_ Yes or No
11. **PAINT** **SPECIFY**
- Paint shall be manufacturer's standard yellow \_\_\_\_\_ colour
12. **OTHER** **SPECIFY**
- Lockable cover over the control console \_\_\_\_\_ Yes or No
- Winch with 150' of 5/16 synthetic rope and line for 5000 lbs. maximum pull \_\_\_\_\_ Yes or No

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**13. MISCELLANEOUS**

**SPECIFY**

The unit must be guaranteed to operate effectively and will be subject to inspection by the City and any deficiencies corrected by the bidder prior to final acceptance

\_\_\_\_\_ Yes or No

The following manuals shall be supplied:

Operators (2 copies)

\_\_\_\_\_ Yes or No

Service and Repair (1 copy)

\_\_\_\_\_ Yes or No

Parts (1 copy)

\_\_\_\_\_ Yes or No

Provide factory part number information for the following

Air Filter #: \_\_\_\_\_

Fan Belt #: \_\_\_\_\_

Oil Filter #: \_\_\_\_\_

Fuel Filter #: \_\_\_\_\_

**14. WARRANTY**

**SPECIFY**

Signed manufacturer's factory warranty to be supplied at time of delivery

\_\_\_\_\_ Yes or No

Terms: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**15. GENERAL**

**SPECIFY**

Equipment must be supplied with suitable components to comply with this specification in all aspects

\_\_\_\_\_ Yes or No

Where minimums are called for the equipment must meet or exceed the capacity size or performance specified

\_\_\_\_\_ Yes or No

This specification lists only the major details of a unit, therefore it is the supplier's responsibility to deliver fully equipped equipment with compatible components to provide dependable and efficient service

\_\_\_\_\_ Yes or No

Upon delivery or immediately after, a manufacturer's representative familiar with the equipment will with the City's Fleet Supervisor, Forestry Supervisor and operators, demonstrate the proper operating maintenance and repair procedures as required to meet warranty, and full utilization of the equipment

\_\_\_\_\_ Yes or No

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