



THEMBISILE HANI LOCAL MUNICIPALITY



APPOINTMENT OF A SERVICE PROVIDER FOR THE SUPPLY AND DELIVERY OF A BULL DOZER FOR THEMBISILE HANI LOCAL MUNICIPALITY.

C3 SCOPE OF WORK

C3.1. SCOPE

The services required of the Tenderer will be those in connection with the Supply, Delivery and Registration of the Bulldozer.

C3.2. DESCRIPTION OF THE PROJECT

***C3.2.1.* APPOINTMENT OF A SERVICE PROVIDER FOR SUPPLY AND DELIVERY OF A BULLDOZER FOR THEMBISILE HANI LOCAL MUNICIPALITY.**

Thembisile Hani local Municipality ("THLM") intends procuring a Bulldozer for waste management for the Kwaggafontein landfill site.

The Tenderer's prices shall include registration of the Trucks in the name of Thembisile Hani Local Municipality.



C3.2.2. SPECIFICATIONS FOR BULLDOZER

The Bulldozer shall comply with the following minimum specification:

ENGINE	UNITS		
<p>UNDER CARRIAGE</p> <p>Seven-roller track frame with front and rear track guides and sprocket guard; Dura-Trax™ features deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance; sprockets are segmented; extreme-duty shoes stands; full length rock guard</p> <ol style="list-style-type: none"> Blade Type Outside dozer Semi-U Chain Sealed and Lubricated Grouser Width 610 mm Shoes (each side) 40 Ground Contact Area 33 755 cm² Ground Pressure 52.5 kPa Length of Track on Ground 2 770 mm Track Gauge, Standard 1 880 mm Oscillation at Front Roller ±114 mm Track Rollers (each side) 7 Front Counterweight 397 kg Rear Counterweight 	<p>ENGINE</p> <p>PowerTech Plus™ PVX 6068 with variable-geometry turbocharger, exhaust gas recirculation, and air-to-air aftercooler; certified to EPA Tier 2 emissions.</p> <ol style="list-style-type: none"> Gross Power: 143 kW SAE @ 1,800 rpm Net Power: 152 kW SAE @ 1,800 rpm Cylinders: 6 Displacement: 6.8 ltrs Maximum Net Torque 915 Nm @ 1,500 rpm Lubrication: Pressure system with full-flow spin-on filter and oil-to-water cooler. Air Cleaner: Dual-stage dry type with tangential unloader. Electrical System: 24 volt with 80 amp alternator (cab) Batteries: (two 12 volt) 950 cold-cranking amps, 190 min reserve capacity 	<p>HYDRAULICS SYSTEM</p> <ol style="list-style-type: none"> System Type Load sense System Relief Pressure 3,625 psi Differential Pressure 275 psi Pump Type Piston Pump (74 cc) 174 l/min Maximum Flow @ Unloaded High Idle 163 l/min Filter, Return Oil 10 micron Blade Type Outside dozer Semi-U Blade Brush Guard 87 kg Tank Guard 323 kg Control: T-bar hydraulic-pilot two-function joystick, (with push button angle function for PAT) Cylinders: Heat- 	<p>DIMENSIONS / PARALLELOGRAM RIPPER</p> <p>Blade Type : Outside dozer</p> <ol style="list-style-type: none"> Overall Height to Roof: 3180 mm Overall Height to Exhaust Stack : 3190 mm Tread Depth with Single-Bar Grouser Moderate Duty: 65 mm Extreme Duty: 72 mm Blade Width: 3251 mm Blade Height:



<p>449 kg</p> <p>13.Track Pitch 203 mm</p> <p>BLADE WEIGHTS Includes push beams, trunnion mounts, straight end bits, C-frames, angle and tilt cylinders where applicable.</p> <ol style="list-style-type: none"> 1. Semi-U 1326 kg 2. Push Beam Assemblies for Straight or Semi-U Blades (without blade) 1672 kg* *Included in SAE operating weights <p>TRANSMISSION Automatic, dual-path, hydrostatic drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable displacement piston pump and motor combination; travel speeds (forward and reverse) infinite to 10 km/h (0 to 6.3 mph); groundspeed selection buttons on singlelever steering and direction control; independently selectable reverse speed ratios 80%, 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to stop Type Dual-path hydrostatic System Relief Pressure 45 850 kPa (6,650 psi) Filter, Charge Oil 10 micron Cooling Oil-to-air Travel Speeds (forward and reverse) 0–10 km/h or 11 km/h max (optional)</p>	<p>10.Cooling Fan: Automatic Reversing Cooling Fan</p> <p>11.Cooling Fan Filter, Return Oil: 10 micron</p> <p>FINAL DRIVES Double-reduction, planetary final drives transfer torque loads over three gear sets; mounted independently of track frames and dozer push frames for isolation from shock loads.</p> <ol style="list-style-type: none"> 1. Total Ratio 44.7483:1 2. Drawbar Pull Maximum 344 kN @ 1.9 km/h 167 kN @ 3.2 km/h 120 Kn <p>CAPACITY</p> <ol style="list-style-type: none"> 1. Fuel tank with lockable cap: 371 ltrs 2. Cooling System with Recovery Tank 35 ltrs 3. Engine Lubrication, Including Filter 26.5 ltrs 4. Final Drive - 1st Reduction 8.0 ltrs 5. Final Drive - 2nd Reduction 16.3 ltrs 	<p>treated, chrome plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins</p> <p>13.Cooling: Convective oil sump</p> <p>AUTOMATIC PARKING BRAKE</p> <ol style="list-style-type: none"> 7. Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, 8. whenever the decelerator is depressed to the end of travel, or 9. whenever the park lock lever is placed in the start or neutral positions and motion is detected; machine cannot be driven with brake applied, reducing wear out or need for adjustment. 10. Type Spring-applied, hydraulic 	<p>1422 mm</p> <ol style="list-style-type: none"> 8. Blade Lift Height:: 1150 mm 9. Blade Digging Depth: 600 mm 10.Blade Tilt (uses tilt jack): 753 mm I 11.Overall Length with Blade: 5377 mm * 12.Optional extended drawbar adds 241.5 mm <p>HYDRAULIC PITCH ADJUSTMENT AND ESCO RIPPER TIPS</p> <ol style="list-style-type: none"> 1. WEIGHT : 2032 kg 2. Maximum penetration:
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<p>Limb Risers 272 kg Lift-Cylinder Guards 80 kg</p>	<p>6. Hydraulic System Reservoir 105.6 ltrs</p> <p>Hydrostatic System Reservoir 105.6 ltrs</p>	<p>release</p> <p>BRAKES Hydrostatic (dynamic) braking stops machine when the direction/steering control lever is moved to neutral or the decelerator is depressed to the end of travel. Type: Hydraulic</p>	<p>724 mm</p> <p>3. Maximum clearance under tip: 610 mm</p> <p>4. Overall length, lowered position : 1625 mm</p> <p>5. Overall length, raised position 1525 mm</p> <p>6. Overall beam width: 2400 mm</p> <p>7. Slope angle (full raise) 24 degrees</p> <p>8. Ripping width 2145 mm</p> <p>Distance between shanks 1040 mm</p>
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Bulldozer

The Service Provider shall price for maintenance plan for the Bulldozer for up to a maximum of **3000 hours**. The first service on Bulldozer shall be undertaken at the first 100 hours while the second service shall be at the first 500 hours. Subsequent services thereafter shall be undertaken at every 500 hours until the maximum 3000 hours' service maintenance period is reached.

REGISTRATION AND BRANDING OF THE BULLDOZER

Following the manufacturing of the Bulldozer and according to the prescribed specifications, and delivery to the Thembisile Hani Local Municipality, the Vehicles shall be branded with colours and logo of the Thembisile Hani Local Municipality.

The vehicles shall also be registered by Service Provider at the respective Vehicle Licensing Centre, under the name of Thembisile Hani Local Municipality, after which Roadworthiness Certificates, License discs and Number Plates shall be delivered to THLM. All costs relating to the registration shall be built in to the total tendered amount as approved by THLM and awarded to the Service Provider.

The Bulldozer shall be branded with Thembisile Local Municipality's branding logo and anti-fraud and anti-corruption number.

PROJECT TIME FRAME

The Project is for Supply and Delivery of Supply and delivery of bulldozer for Thembisile Hani Local Municipality shall be for a period not exceeding two (02) weeks

4.2.1 HEALTH AND SAFETY

4.2.1.1 Occupational Health and Safety Act 1994 (Act No. 85 of 1993)

The Service Provider shall comply with the Occupational Health and Safety Act 1994 (Act No. 85 of 1993).

4.2.2.3 PROTECTIVE EQUIPMENT

The Service Provider shall always provide all trainees with all necessary full protective clothing for use where necessary.

4.2.2.4 SPECIAL CONDITIONS

The Council reserves the right to add to or omit any plant to or from this contract.

4.2.2.5 FACILITIES

The service provider will ensure that all necessary facilities are available



4.2.2.6 SUPPLY ALL TRAINING MATERIALS

Service Provider are to supply all equipment required to undertake and complete the work as specified and no additional payments will be entertained.

4.2.2.7 COMMUNICATION

The Service Provider is to provide his operational staff with cellular phone for communication and contact purposes for the duration of the contract.

4.2.2.8 SUBCONTRACTING

Sub - contracting will not be allowed.