HEAD OFFICE

303 Church Street
Private Bag X 44
MOGWADI 0715
Telephone : (015) 501 0243/4
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Molemole Municipality

MOREBENG BRANCH OFFICE

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MOREBENG 0810
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www.molemole.gov.za

ALL CORRESPONDENCE TO BE ADDRESSED TO THE MUNICIPAL MANAGER

Ntjana PI

Ref: MLM

12 April 2012

CALL FOR PROPOSAL OR QUOTATION FROM SUPPLIERS OF MOTOR GRADERS.

Molemole Local Municipality is hereby inviting proposals or quotation from the prospective suppliers / providers for the supply of the following.

1) **MOTOR GRADER.**

NB: SPECIFICATIONS ARE AVAILABLE AT THE MUNICIPAL OFFICES MOGWADI FROM 07H30 TO 16H00 DURING THE DAY.

The following documentation should accompany the proposal or quotation.

1) Company registration certificate.
2) An Original Tax clearance certificate.
3) Company Profile.

All quotation must be submitted at Mogwadi Municipal Office on **or before the 23rd of April 2012, 12H00midday**. No quotation will be accepted after the closing date. For any enquiries please contact **PI Ntjana at 015 501 0243**

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Nkoana TD
Municipal Manager

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Enquiries: Ntjana Phuti

Reference: MLM

Technical specifications	

Background information

1. Background

The employer's objectives are to protect and maintain existing infrastructure and to provide safe conditions to traffic using the road. For this specific supply contract, the employer aims at purchasing new motor grader for road maintenance purpose.

The successful Company will be required to supply and deliver motor grader for routine road maintenance for this purpose to the client.

2. Nature of the Contract

This contract is in essence a **once off** supply contract for the supply and delivery of motor grader to the client.

The project is in the administrative of Molemole Local Municipality. Tenderers are required to complete the schedule. The schedule will be evaluated and the client reserves the right to appoint any or none of the tenders received.

3. Scope/Specification

DESCRIPTION

MOTOR GRADER

Supply and delivery of Motor grader to Molemole Municipality Morebeng offices, the grader must have the following minimum specifications or more, similarly approved

BASE OPERATING WEIGHT

Base- Total	kg (lb)	15800 (34,830)
Front wheels	kg (lb)	4 700 (10,360)
Rear wheels	kg (lb)	11 100 (24,470)

Maximum combined capacity	kg (lb)	19280 (42,500)
Maximum weight-front	kg (lb)	7570 (16,700)
Maximum weight-rear	kg (lb)	14240 (31,400)

PRODUCTIVITY (STANDARD EQUIPMENT) BLADE PULL AT BASE

Blade pull at base weight (0.9 traction co-efficient)	kg (lb)	9 990 (22,023)
Blade pull at maximum base weight (0.9 traction co-efficient)	kg (lb)	12 816 (28,260)
Blade down force capability	kg (lb)	8 188 (18,021)

RANGE ENGINE POWER CONTROL

Base range power

Rated net brake horsepower @ 1900 RPM§	kW (hp)	115 (155)
Torque	N.m (lb.ft)	906 (668) @ 1200

Mid rang power

Rated net brake horsepower @ 1900 RPM§	kW (hp)	130 (175)

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Torque	N.m (lb.ft)	915 (671) @ 1400
High rang power		
Rated net brake horsepower @ 2100 RPM§	kW (hp)	145 (195)
Rated net brake horsepower @ 1800 RPM§	kW (hp)	154 (204)
Torque	N.m (lb.ft)	928 (684) @ 1550
TRANSMISSION		
Speed at minimum gear		3.8 Km/h
Speed at maximum gear		44.9 Km/h
Tandems		
Depth	mm (in)	226.5 (8.9)
Height	mm (in)	616 (24.25)
Thickness		
Inner wall	mm (in)	25 (1)
Outer wall	mm (in)	20 (,78)
Center distance	mm (in)	1550 (61)
Drive chain pitch	mm (in)	51 (2)
Oscillation	degrees ±	15°
Differential/ Final drive		
Planetary final reduction with an operator controlled wet multiple disc lock/unlock differential		
Wheels and tires		
Tire size		14:00 x 24, G-2
Ply rating (PR)		12
Rim size	mm (in)	223 (9) one piece rim
Bolt-on rims interchangeable between front and rear		Yes

FRONT AXLE AND ARTICULATION

Wheel lean R&L	degrees R&L	18°
Oscillation up & down	degrees up & down	16°
Ground clearance	mm (in)	610 (24)
Minimum turning radius using front axle steering,	mm (ft)	7 265 (23'10")
Articulated, wheel lean and unlocked differential		
Steering arc	degrees	50°
Frame articulation angle	degrees	23°

FRONT FRAME Fabricated-Robotically welded

Minimum dimension of box section	mm(in)	265x340(10.5x 13.5)
Plate thickness sides, top & bottom	mm(in)	20 (,79)
Vertical section modulus arch	cm (cu in)	1950 (119)
Minimum	cm (cu in)	1663 (101)
Minimum	cm (cu in)	3474 (212)

Rear Frame- Full perimeter type

Minimum dimension of side rail	mm (in)	254 x 100 (10 x 4)
Side plate thickness	mm (in)	9,6 (,38)

Moldboard

Standard	mm	22 x 635 x 3 658
	(in)	(,87 x 25 x 12")
Edge: through hardened	mm (in)	152 x 16(6x 5/8) boron steel
Bolt spacing	mm(in)	152 (6)
Bolt size	mm(in)	16(5/8)
Slide rail supported by Duramide bearings		yes

MOVEABLE BLADE CONTROL SYSTEM

Reach outside tires-articulated frame	mm	3 048/3 035
	(in)	(120/119.5)
Reach outside tires- straight frame	mm	2 020/2 010
	(in)	(80/79)
Moldboard slide	mm	673/673
	(in)	(26.5/26.5)
Circle side shift	mm	775/749
	(in)	(30.5/29.5)
Maximum bank sloping angle, left – right	degrees	90/90°
7 position Blade Control system linkage		yes
Moldboard ground clearance	mm(in)	445(17.5)
Moldboard cutting depth	mm (in)	790 (31)
Moldboard tilt range forward and backward	degrees	47° and 5°

CIRCLE

Pitch diameter	mm (in)	1 626 (64)
Thickness	mm (in)	32 (1.25)
Adjustable guide shoes – standard / optional		3 / 5
Adjustable guide plate – standard / optional		3 / 5
Upper circle wear plate – standard / optional		3 / 5

CIRCLE DRIVE

Rotation	degrees	360°

DRAWBAR

Dimensions of box section	mm(in)	165x 165 (6.5x6.5)

Plate thickness	mm(in)	25&19 (1&,75)
CAB & CONTROLS		
Interior height	mm(in)	1 620 (64)

IMPLEMENT HYDRAULIC

Circuit type: closed center, load sense proportional demand flow (PDF) hydraulics system, with O-rings face seal hose connections. Main implement pump type **axial piston type**

Maximum pressure	Bar	207 (3,000)
Output 2100 RMP	lpm (gpm)	208 (55)
Stand by pressure	Bar	24 (350)

CAPACITIES

Fuel tank	l(U.S Gal)	340(90)
Transmission	l(U.S Gal)	61(16)
Final drive	l(U.S Gal)	22,7 (6)
Tandem (each)	l(U.S Gal)	100(26.4)
Hydraulic oil tank	l(U.S Gal)	91 (24)
Coolant antifreeze protection to-50°C(-58°F) approx		31 (8.2)
Engine oil	l(U.S Gal)	21,5 (5.7)

4. Quality Assurance

The wining supplier is to give quality assurance in relation to assets purchase!

5. Contract period

This will be a once off supply contract with the provision of warranty for the machine (motor grader) by the bidder for which the winning tenderer is to supply and deliver motor grader for routine road maintenance