



MOUNTAINS RECREATION & CONSERVATION AUTHORITY

Los Angeles River Center and Gardens
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Los Angeles, California 90065
Phone (323) 221-9944 Fax (323) 221-9934

April 18, 2017

MRCA
Attachment
5/3/17
Agenda Item VI (b)

Bid Results
New Heavy Equipment Bid
570 W. Ave. 26, Los Angeles, CA 90065

Equipment Type #1 Alternate #1 – 4WD Skip Loader

- 1. ~~Diamond A Equipment~~
~~2635 E. South Street~~
~~Long Beach, CA 90805~~
Total Bid: \$54,375.00
 - 2. **Sonsray Machinery, LLC**
10950 Norwalk Blvd.
Santa Fe Springs, CA 90670
Total Bid: \$67,215.12
 - 3. Diamond A Equipment
821 North Rice Ave.
Oxnard, CA 93030
Total Bid: \$75,060.00
 - 4. Quinn Company
P.O. Box 226789
Los Angeles, CA 90022
Total Bid: \$77,300.00
 - 5. Coastline Equipment Co.
6188 N. Paramount Blvd.
Long Beach, CA 90805
Total Bid: \$87,157.75
- * The bid was disqualified because it did not meet all the heavy equipment specifications.

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MRCA 2017 NEW HEAVY EQUIPMENT BID PRICING SHEET

* Must include all applicable taxes and fees.

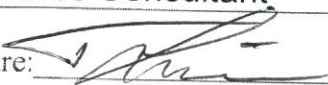
Equipment Type	Description	Quantity	Total Cost (per type)
1	4WD Skip Loader	1	\$67,087.88
1-alt #1	4WD Skip Loader	1	\$67,215.12
2	4WD Farm-Style Tractor	1	No Bid
3	Flatbed Trailer	1	\$15,166.28
4	Mini-Excavator	1	\$30,371.70
5	Mid-Sized Excavator	1	\$39,253.32

TOTAL COST (ALL new heavy equipment) = \$ 152,006.42 includes Alt.#1, no #2.

Company: Sonsray Machinery, LLC

Authorized Representative: Tony Lucia

Title: Sales Consultant

Signature: 

Date: 3/21/17



ENGINE

Model	FPT F5HFL463D
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in3 (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Cooling	Charged air
Engine speeds	RPM
Rated speed – full load	2200
Low idle	900 – 1000
High idle – no load	2330 – 2430
Horsepower @ 2200 RPM:	
Gross	74 hp (55 kW)
Net*	72 hp (54 kW)
Maximum torque @ 1400 RPM:	
Gross	235 lb-ft (316 N-m)
Net*	228 lb-ft (310 N-m)
Torque rise at rated speed	35% +/- 5%
Radiator:	
Core size area	486 in2 (3 145 cm2)
Rows of tubes	5
33 Degree fan:	
Style	7 blade suction
Ratio	1.1:1
Water pump style	Integral
Engine oil	CJ-4 – semi-synthetic 10W40
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, spin on

NOTE: *with viscous fan.

DRIVETRAIN

Transmission – standard:
4F-4R Power Shuttle Synchronesh
Transmission manual gear shift,
fully synchronized

Gear ratios	Forward/Reverse
1st	5.603/5.603
2nd	3.481/3.481
3rd	1.584/1.584
4th	0.793/0.793
Travel speeds*	mph (kph)
1st	3.8 (6.1)
2nd	6.1 (9.8)
3rd	12.8 (20.6)
4th	24.0 (38.6)
Torque converter ratio*	3.01
Differential-lock	On-the-go push-button activation
Front 4WD/Rear axle*:	
Differential ratio	2.0/2.5
Planetary hub ratio	6.0/6.4
Total reduction ratio	12.0/16.0
Axles rating:	
Maximum static – lb (kg):	70,821 (32 124)/90,145 (40 889)/ 58,448 (26 511)
Dynamic operating – lb (kg):	44,261 (20 076)/56,200 (25 492)/ 35,575 (16 136)
Static operating – lb (kg):	17,704 (8 030)/22,480 (10 197)/ 14,230 (6 455)
Service brakes:	Individually applied, hydraulically actuated, maintenance-free, outboard mounted, wet disc, 2 per side.
Parking brakes	Trans Mounted spring-applied hydraulic release – SAHR

NOTE: Travel speeds at 2293 engine RPM
w/ 19.5 L x 24.0 rear tires.

*Specs listed will differ w/ PTO option.

ELECTRICAL

Voltage	12 Volts
Alternator	120 amp
Battery	850 cold-cranking amps
Opt. batteries – 2	850 cold-cranking amps
Power plugs – 2	30 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy;
2 halogen headlights; 2 rear flood lights; 2 rear
tail and stop lights; 2 front flashers/turn lights;
2 rear flashers/turn lights; Anti-vandalism cover
for dash and front console – w/ canopy only;
Pre-wired for radio – cab only; Rear fenders w/
storage tray and molded beverage and thermos
holder; Coat hook w/ garment strap; Interior
rearview mirror; non-suspension seat – 15 degree
and 30 degree swivel to the right; 2 in (51 mm)
retractable seat belt; Cup holder/storage tray
mounted on LH fender.

Gauges:

Engine water temperature; Converter oil
temperature; Fuel level; Tachometer/
hourmeter; Voltmeter.

Warning lights:

Air cleaner restriction; Alternator; A/C high
pressure; Cold start; Engine oil pressure
low; Hydraulic oil filter bypass; Parking brake
engagement; Low fuel; Water in fuel.

Audible alarms:

Coolant temperature; Engine oil pressure;
Parking brake engagement; Shuttle
engagement/seat position; Backup; Horn.

OPERATING WEIGHT

Configuration 1 – Lightest:

82 in (2.08 m) Standard bucket, 4WD,
19.5 L x 24.0 rear tires, ROPS canopy,
suspension seat, dual batteries, no operator:
11,134 lb (5 051 kg)

Configuration 2 – Heaviest:

82 in (2.08 m) 4 IN 1® bucket, 4WD,
19.5 L x 24.0 rear tires, enclosed cab,
suspension seat, dual batteries, no operator,
440 lb front weight, 3-point hitch, box scraper:
14,508 lb (6 581 kg)

Attachments:

82 in (2.08 m) buckets:	
4 IN 1®	1,451 lb (658 kg)
General purpose	686 lb (311 kg)
Box scraper	1,592 lb (722 kg)
Cab – over canopy	646 lb (293 kg)
Driveshaft guard	218 lb (99 kg)

Weights:

Counterweight	3,000 lb (1 360 kg)
Rear weight	500 lb (227 kg)
Front weight	440 lb (200 kg)

HYDRAULICS

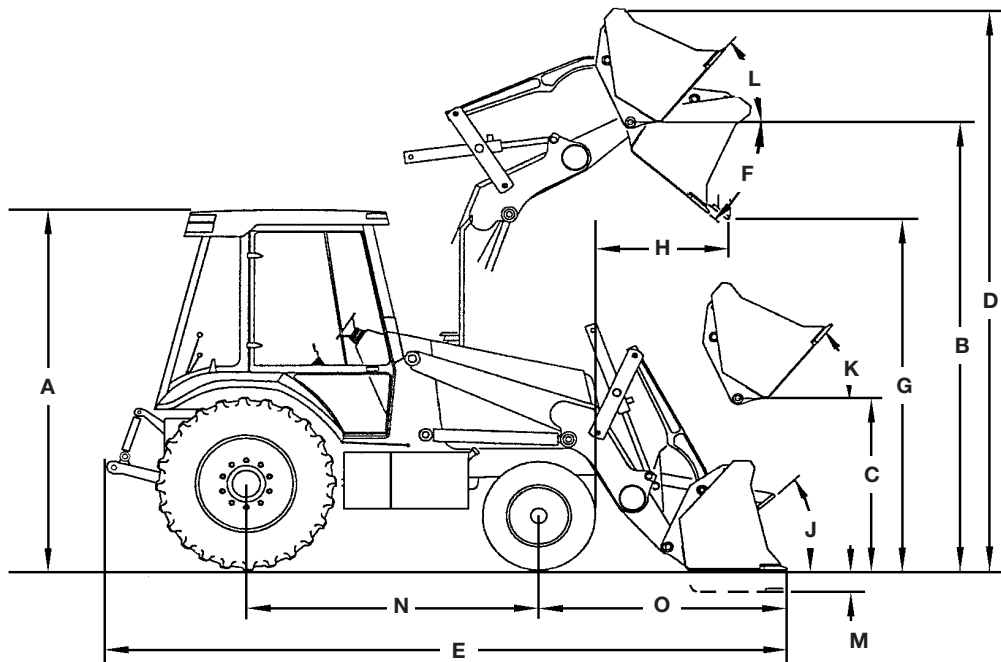
Pump	Gear pump
Capacity	28.5 gal/min @ 3,000 psi (108 L/min @ 207 ba)

SERVICE CAPACITIES

Fuel tank	30 gal (114.0 L)
Hydraulic system:	
Total	72 qt (68.0 L)
Reservoir w/ filter	58 qt (55.0 L)
Reservoir w/o filter	56 qt (53.0 L)
Transmission:	
2WD – total	18 qt (17.0 L)
Reservoir	11 qt (10.4 L)
4WD – total	21 qt (20.0 L)
Reservoir	14 qt (13.2 L)
Front axle:	
Differential	5.8 qt (5.5 L)
Planetaries – each	0.7 qt (0.7 L)
Rear axle:	
Differential	14.4 qt (13.6 L)
Engine oil w/ filter	8.5 qt (8.0 L)
Cooling system	18.3 qt (17.3 L)
Turning radius - curb to curb, no bucket:	
2WD:	
Brakes on	12 ft 2 in (3.70 m)
Brakes off	12 ft 10 in (3.91 m)
4WD – engaged:	
Brakes on	11 ft 7 in (3.52 m)
Brakes off	13 ft 9 in (4.18 m)
4WD – disengaged:	
Brakes on	12 ft 3 in (3.72 m)
Brakes off	12 ft 11 in (3.92 m)

OTHER SPECIFICATIONS

3-point hitch:	
Category I & II 3-point hitch	
Hydraulic lift, pitch, tilt and 2 auxiliary remotes	
Vertical lift force:	
Lowest point	2,500 lb (11 121 N)
1/5	3,247 lb (14 444 N)
2/5	3,400 lb (15 125 N)
3/5	3,501 lb (15 574 N)
4/5	3,297 lb (14 666 N)
Highest point	2,984 lb (13 274 N)
Front tires:	
2WD – 11.0 L x 16.0, 10-ply rating	
4WD – 12.0 L x 16.5, 8-ply rating	
Rear tires:	
2/4WD – 19.5 L x 24.0, 10-ply rating	
2/4WD – 17.5 L x 24.0, 10-ply rating	



Line drawings are for illustrative purpose only and may not be exact representation of unit.

LOADER DIMENSIONS

	19.5 L x 24.0 Tires	17.5 L x 24.0 Tires
A. Height to:		
Top of canopy	9 ft 0 in (2.74 m)	8 ft 9 in (2.67 m)
Height to top of canopy – Low profile ROPS	8 ft 9 in (2.65 m)	8 ft 6 in (2.59 m)
Top of cab	9 ft 0 in (2.74 m)	8 ft 10 in (2.68 m)
	Long Lip Bucket	4 IN 1® Bucket
B. Bucket hinge pin fully raised	11 ft 3 in (3.41 m)	11 ft 3 in (3.41 m)
C. Bucket hinge pin at SAE carry	1 ft 1 in (0.33 m)	1 ft 3 in (0.37 m)
D. Overall operating height – fully raised	13 ft 8 in (4.17 m)	14 ft 3 in (4.35 m)
E. Overall length with 3-point hitch	16 ft 11 in (5.15 m)	16 ft 9 in (5.09 m)
Width over tires:		
11.0 L x 16.0	6 ft 8 in (2.02 m)	6 ft 8 in (2.02 m)
12.0 L x 16.5	6 ft 10 in (2.06 m)	6 ft 10 in (2.06 m)
19.5 L x 24.0	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
17.5 L x 24.0	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
F. Dump angle at full height	46°	45°
G. Dump clearance at full height, 45° dump:		
Bucket	8 ft 8 in (2.63 m)	8 ft 11 in (2.71 m)
Clam open	–	9 ft 8 in (2.93 m)
H. Dump reach at full height, 45° dump:		
Bucket	2 ft 2 in (0.66 m)	2 ft 2 in (0.64 m)
Clam open	–	11.9 in (0.3 m)
Bucket rollback:		
J. at Groundline	40°	40°
K. at SAE carry	45°	45°
L. at Full height	Adjustable	Adjustable
M. Digging depth below grade:		
Bucket flat	7.5 in (0.19 m)	6.8 in (0.17 m)
Clam open – dozing	–	4.1 in (0.10 m)
Ground clearance at front axle	10.9 in (0.28 m)	10.9 in (0.28 m)
N. Wheelbase	7 ft 0 in (2.13 m)	7 ft 0 in (2.13 m)
O. Reach from front axle centerline – bucket on ground	6 ft 3 in (1.89 m)	6 ft 1 in (1.85 m)
Maximum clam opening	–	3 ft 3 in (0.97 m)
Moldboard height	–	3 ft 1 in (0.93 m)
Lift capacity to full height	6,503 lb (2 950 kg)	6,537 lb (2 965 kg)
Breakout force:		
Lift cylinders	9,271 lb (41 239 N)	8,766 lb (38 993 N)
Dump cylinders	9,607 lb (42 734 N)	10,325 lb (45 928 N)

NOTE: Loader dimensions taken with 4WD, 19.5 L x 24.0 rear tires and 82 in (2.08 m) general purpose bucket except as noted.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT 3.4 L diesel
Cooled EGR
Diesel Oxidation Catalyst
Full flow engine oil filter
Air cleaner – replaceable dry type with radial seal
Radiator with de-aeration bottle
Antifreeze to -34° F (-37° C)
Foot throttle
Self adjusting belt
Fuel filter with water trap

DRIVETRAIN

Front axle, as selected:
2WD heavy-duty front axle with 11.0 L x 16.0 tires
4WD heavy-duty mechanically driven rear axle, with 12.0 L x 16.5 tires
Rear axle:
2/4WD heavy-duty outboard planetary drive, with 17.5 L x 24.0 tires
4F-4R Power Shuttle
Synchronesh transmission
Torque converter
On-the-go electric 4WD control
Electric F/R shuttle control
Electric differential lock control, with push-button activation; Located on the loader control lever and side console
Park brake, spring-applied, hydraulic release

HYDRAULICS

Gear pump:
28.5 gal/min @ 3,000 psi
(108 L/min @ 207 bar)
Heavy-duty hydraulic oil cooler
7 micron, spin on oil filter

LOADER

Bucket position indicator
Lifting lugs on standard bucket
Single lever control, with Self-Leveling and Return-to-Dig
Hand-operated clutch disconnects on loader and shift levers
Single lever 5-function loader control: Lift; Dump; Auxiliary function; Clutch cut-out; Differential-lock

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Manual Ride Control
Comfort Steer
ROPS and FOPS certified protective canopy: Short and standard height
ROPS certified cab with heater, defroster, front and rear wipers and floor mat
Cab Convenience Package containing:
Flip forward sun visor; Window washer – front and rear; Radio Ready kit, including wiring, speakers and DIN radio mounting; Deluxe Interior Package
Air-conditioning for cab models
Mechanical suspension seat:
With armrests – 15° and 30° swivel to the right; Cloth or vinyl; Adjustable seat height, backrest angle; Lumbar and thigh support
Wide seat belt – 3 in (75 mm)

ENGINE

Cold Weather Starting Aid
with dual 12 Volt batteries and glow plugs
Block heater
Master disconnect switch and remote jump-start terminals

TRACTOR

Chaff screen – dealer installed option
Auxiliary work lights:
2 front and 2 rear flood for tall canopy and cab
Canopy sun visor – tall canopy only
440 lb (200 kg) front counterweight
Hand throttle – electric
500 lb (227 kg) counterweight, bolted to hitch frame
5th spool auxiliary circuit for 3-point hitch valve
Tool portfolio of additional attachments
3-point hitch with 600 lb (272 kg) Plug in counterweight – cannot be used with PTO
Driveshaft guard
3,000 lb (1 360 kg) rear counterweight
Drawbar
Rear wheel weights 564 lb (256 kg)
PTO:
540 RPM, hydraulically powered rear PTO Ready. PTO hydraulic pump only, no motor

LOADER

Auxiliary hydraulics for loader-mounted equipment
Hydraulic front quick coupler
Mechanical front quick coupler
Buckets – less teeth:
82 in (2.08 m) general purpose Long Lip, with bolt-on cutting edge – includes lift eyes
82 in (2.08 m) general purpose Long Lip, without bolt-on cutting edge – includes lift eyes
82 in (2.08 m) 4 IN 1[®], includes 3 Bolt-on cutting edges; Unit must be equipped with auxiliary loader hydraulics
93 in (2.36 m) light duty loader bucket
Loader linkage without loader bucket

OTHER

Tool box – bolt-on step-mounted
Special paint
Spare tires

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

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Replaces Form No. CCE201701570NEP