April 18, 2017

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
   * The bid was disqualified because it did not meet all the heavy equipment specifications.

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
**MRCA 2017 NEW HEAVY EQUIPMENT BID PRICING SHEET**

*Must include all applicable taxes and fees.*

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

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: [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:
- Rated speed – full load: 2200 RPM
- 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)/35,757 (16 136)
- Static operating – lb (kg):
  17,704 (8 030)/22,480 (10 197)/14,230 (6 455)

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)

NOTE: Travel speeds at 2293 engine RPM w/ 19.5 L x 24.0 rear tires.
*Specs listed will differ w/ PTO option.

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy;
2 halogen headlights; 2 rear flood lights; 2 rear tail and stop lights; 2 front flashers/turnd lights; 2 rear flashers/turnd 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) retractive 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.

OPERATIONAL WEIGHT
## OTHER SPECIFICATIONS

**3-point hitch:**
- Category I & II 3-point hitch
- Hydraulic lift, pitch, tilt and 2 auxiliary remotes

<table>
<thead>
<tr>
<th>Vertical lift force</th>
<th>2,500 lb (11,121 N)</th>
<th>3,247 lb (14,444 N)</th>
<th>3,400 lb (15,125 N)</th>
<th>3,501 lb (15,574 N)</th>
<th>3,297 lb (14,666 N)</th>
<th>2,984 lb (13,274 N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowest point</td>
<td>2/5</td>
<td>3/5</td>
<td>4/5</td>
<td>Highest point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/5</td>
<td>2/5</td>
<td>3/5</td>
<td>4/5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

## 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)

**HYDRAULICS**

<table>
<thead>
<tr>
<th>Pump</th>
<th>Gear pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>28.5 gal/min @ 3,000 psi (108 L/min @ 207 ba)</td>
</tr>
</tbody>
</table>
### LOADER DIMENSIONS

<table>
<thead>
<tr>
<th>A. Height to:</th>
<th>19.5 L x 24.0 Tires</th>
<th>17.5 L x 24.0 Tires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of canopy</td>
<td>9 ft 0 in (2.74 m)</td>
<td>8 ft 9 in (2.67 m)</td>
</tr>
<tr>
<td>Height to top of canopy – Low profile ROPS</td>
<td>8 ft 9 in (2.65 m)</td>
<td>8 ft 6 in (2.59 m)</td>
</tr>
<tr>
<td>Top of cab</td>
<td>9 ft 0 in (2.74 m)</td>
<td>8 ft 10 in (2.68 m)</td>
</tr>
</tbody>
</table>

| 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) |

<table>
<thead>
<tr>
<th>Width over tires:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11.0 L x 16.0</td>
<td>6 ft 8 in (2.02 m)</td>
<td>6 ft 8 in (2.02 m)</td>
</tr>
<tr>
<td>12.0 L x 16.5</td>
<td>6 ft 10 in (2.06 m)</td>
<td>6 ft 10 in (2.06 m)</td>
</tr>
<tr>
<td>19.5 L x 24.0</td>
<td>6 ft 10 in (2.07 m)</td>
<td>6 ft 10 in (2.07 m)</td>
</tr>
<tr>
<td>17.5 L x 24.0</td>
<td>6 ft 10 in (2.07 m)</td>
<td>6 ft 10 in (2.07 m)</td>
</tr>
</tbody>
</table>

| 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)     |

| N. Wheelbase                                      | 10.9 in (0.28 m)    | 10.9 in (0.28 m)    |
|                                                   | 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)  |

| L. 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.

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

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 hitch
Drive shaft 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

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

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.

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

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Replaces Form No. CCE201701570NEP

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