

Ring Power Corporation 500 World Commerce Parkway St. Augustine, FL 32092

Prepared For: Florida Sheriff's Association 8/5/2020

Item #33: (1) NEW CATERPILLAR 725 ARTICULATED DUMP TRUCK

CONTRACT DETAILS

Florida Sheriff's Association Bid # FSA20-EQU18.0 Item #33: Group: DUMP TRUCK: Articulated Off Road Dump Truck, 50,000 LB Payload and Options Contract Dates: October 1, 2020 through September 30, 2023

BID SPECIFICATION:

<u>WEIGHT:</u>a. Minimum operating weight - 40,000 lbs. b. Minimum gross weight (with payload) - 91,000 lbs. 2.
 <u>ENGINE:</u> a. Turbocharged diesel engine, 265 hp 6 cylinder, 549 cubic inch minimum. b. Spin on type filters. c. Two stage air cleaner. 3. <u>TRANSMISSION:</u> a. 6 speeds forward, 1 speed reverse. b. Top speed of 31 mph c. Hydraulic retarder 4.
 <u>BRAKES:</u> a. Disc type service brakes. b. Disc type parking brake. 5. <u>AXLES & DIFFERENTIALS:</u> a. Differential locks b.
 Planetary gear reduction final drives. c. Inter axle differential lock. 6. <u>TIRES:</u> a. Tubeless, radial off road hauler tires. b.
 23.5 R 25 tire size 7. <u>STEERING:</u> a. 45 degree left or right articulation angle. b. Secondary electric steering system for emergency steering. c. Double acting steering cylinders. 8. <u>OPERATING STATION:</u> Cab to be pressurized, heated, air conditioned and filtered. b. Built in ROPS/FOPS protection. c. Suspension type operators seat with seat belt. d. Cab instrumentation or engine monitoring system with audible alarms. e. Tinted glass windows. f. Sun visor g. Front and rear intermittent windshield wipers. h. Work lights, headlights, stop, tail and turn signal lights. i. Left and right mirrors. 9.
 <u>BODY:</u> a. Dump body tipping angle 70 degrees. b. Mud flaps c. Two single stage double acting body hoist cylinders. d. 18 yd. heaped capacity e. Body rise time maximum 12 seconds. 10. <u>MISCELLANEOUS</u> 95 gallon fuel tank minimum.

BASE MACHINE

555-6401	725 04A ARTICULATED TRUCK
480-1973	NO ROOF LIGHTS
480-1971	NO MACHINE SECURITY SYSTEM
497-9403	NO REAR WIPER
480-1980	AM/FM RADIO (BLUETOOTH READY)
500-5946	MIRROR, STANDARD
495-0330	SEAT, STANDARD
566-5659	SEAT BELT, W/ INDICATION
462-5037	CAB, STANDARD
481-8888	PRODUCT LINK, CELLULAR PLE641

485-0336	NO PAYLOAD
503-2045	TANK, STANDARD FUEL
380-3578	TIRES, 23.5R25 BS ** VLT E-3
583-9949	ROW ENGINE ARRANGEMENT
396-1948	AID, STANDARD STARTING
555-6418	FILM GROUP, ANSI
555-6412	CHASSIS, STANDARD
555-6462	BODY, STANDARD
555-6414	EXHAUST, STANDARD
455-3502	NO TAILGATE
381-0092	ANTIFREEZE, -36C (-33F)
421-8926	SERIALIZED TECHNICAL MEDIA KIT
363-7685	BEACON, LED
364-4046	GROUP, ETHER
381-1676	HEATER, ENGINE COOLANT, 120V

Ring Power Corporation



Cat[®] 725 Articulated Truck

The Cat[®] 725 features a world-class cab design, re-engineered using global operator feedback to advance comfort and ease of operation. Enhancements include new controls, transmission-protection features, hoist-assist system, advanced automatic traction control system, automatic retarder control, stability-assist machine rollover warning system, and a fuel saving ECO mode.

Proven Reliability

- Cat C9.3 engine delivers proven reliability across a variety of platforms.
- Terrain-based throttle control smooths throttle input over rough terrain to improve ride quality.
- Enhanced reliability through commonality and design simplicity with long life to overhaul.
- Minimized impact of emissions systems allows excellent response and ample power.
- Hydraulic retarder improves response and increases retarding power for controlled descent of grades.
- Aftertreatment technologies reduce emissions, including reducing NOx emissions by 80%.

Durability

- All structures and components are proven through extensive experience and testing.
- Advanced suspension allows greater speed over rough terrain, while softening impact loads.
- Front suspension oscillates ±6 degrees for a smooth ride.
- Frames are designed to handle torque loads, decrease hitch area stress, and optimize suspension geometry.
- Frames are robot-welded for maximum durability.
- Directional shift protection protects the power train when quickly moving from reverse to forward or forward to reverse.

Achieve Greater Productivity

- Advanced Automatic Traction Control (AATC) decreases wheel slippage, delivering maximum traction and increased productivity.
- Automatic Retarder Control (ARC) manages the retarder without any operator interaction. Fully automatic 100% of the time.
- Combined hoist/transmission lever, exclusive to Caterpillar, places multiple controls on transmission lever, incorporates park brake, eases workload, and reduces operator interaction by as much as 50%.
- Machine wake up initiates machine systems when truck is de-isolated or cab door is opened.
- Low profile exhaust stack reduces overall height and eliminates the need for removal to transport.

Boost Fuel Efficiency

- Optional economy mode reduces fuel use without affecting productivity and can be engaged with a single button.
- Next generation design improves fuel economy with minimized maintenance costs and the same great power and response.
- Innovative air-management systems optimize airflow and enhance power and fuel efficiency.
- Fully automatic retarder control helps prevent engine overspeed, protects power train components without any operator intervention.



Easy, Comfortable Operator Environment

- Simple, intuitive control and display layouts allow operator to focus on safe machine operation, while maintaining productivity.
- Redesigned cab structure increases glass area, improving rear quarter visibility.
- Automatic cab climate control.
- Cab-mounted mirrors for excellent visibility, reduced vibration, and easy folding.
- Front visibility mirror gives an improved view immediately in front of the machine.
- Touchscreen allows easy monitoring and adjustment of systems.
- Sliding windows improve ventilation and communication.
- Ample storage prevents cabin clutter.

Technology That Gets Work Done

- Integrated systems give you the ability to make timely, fact-based decisions to maximize efficiency, improve productivity, and lower costs.
- Product Link[™] system connects to each machine wirelessly, allowing you to monitor location, hours, fuel use, productivity, idle time, and diagnostic codes.
- Operator can view real-time load weights on the touchscreen display and set a target weight.
- External payload indicator lights alert the loader when to stop, reducing the risk of machine overloading.
- Stability assist software reports information via online VisionLink[®], increasing awareness of machine history if a rollover has occurred.

Built-In Safety Features

- Cat Detect with stability assist provides audible and visual alerts to the operator if the tractor and/or trailer unit is approaching an unstable angle during operation.
- Seat belt indicator provides audible and visible alert if seatbelt is not latched while the machine is on.
- Operator-presence detection system applies parking brake if gear is engaged and operator is not seated.
- Emergency brake switch allows operator to bring the machine to a safe stop in the unlikely event of both main and secondary brake circuits failing.
- Integrated payload lights (when Cat Production Measurement (CPM) option is fitted) with wide angle beam lights on all cab roof corners provide clear visibility to loading tool operator and site controllers.
- Secondary steering activates automatically if low pressure is sensed in primary system.

Reduced Maintenance Costs

- Durable flexi fender reduces the risk of permanent damages and reduces repair costs.
- Durable design and easier servicing mean longer serviceability, maximized uptime, and reduced service costs.
- Universal joints are lubricated for life. Other lubrication points are grouped in hitch area for easy access.
- Oil and coolant change intervals have been extended; coolant formula improves component life by reducing aluminum corrosion.
- Entire machine is designed for greater ease of maintenance with side-tilting cab, electrically raised hood, access panels, and data connector.

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		opnomi
Air conditioning with R134A refrigerant	✓	
Combined gear selection and hoist control lever	✓	
Liquid Crystal Display (LCD)	✓	
Mirrors: extensive arrangement for improved visibility	\checkmark	
Mirrors, heated rearview motorized		✓
Machine operation monitoring system	~	
Radio, Bluetooth stereo system		\checkmark
Seats: operator – fully adjustable, air suspension, retractable belt; trainer – padded with retractable lap belt	✓	
Seat, heated/cooled		\checkmark
Secondary steering – electro hydraulic	\checkmark	
Sun visor	✓	
Tilt and telescopic steering wheel	✓	
Touchscreen display incorporating the rearview camera video feed	√	
Windshield wiper and washer, two speed, intermittent (front)	\checkmark	
Single speed rear wiper		\checkmark
TECHNOLOGY		
Machine Security System (MSS)		✓
Cat Production Measurement payload monitoring system		\checkmark
PLE641 (cellular) dependent on location and licensing agreement	~	
Cat Detect with Stability Assist	\checkmark	
PLE631 (satellite)		\checkmark
ELECTRICAL AND LIGHTING		
Batteries (two) maintenance free	\checkmark	
Cold weather start attachment		\checkmark
Engine block heater		\checkmark
Ether start		\checkmark
Electrical system: 24-volt, 5A 24- to 12-volt converter	\checkmark	
Flashing LED beacon		\checkmark
Lighting systems: cab interior, two head lamps, two width marker, two reversing, work light/cab access light, two stop/tail lights, front and rear direction indicators	~	
Main disconnect switch	\checkmark	
Roof mounted High Intensity Discharge (HID) work lights		\checkmark

	Standard	Optional
POWER TRAIN		
Auto shift six-speed forward and single speed reverse transmission	√	
Cat C9.3 engine	\checkmark	
CX31R transmission	\checkmark	
Cat Clean Emission Module (CEM) and exhaust aftertreatment package	\checkmark	
Differentials: standard with automatic clutched inter- and cross-axle differential locks	\checkmark	
Dual circuit oil immersed, enclosed brakes – all wheels	\checkmark	
Hydraulic retarder	\checkmark	
Three axle, six-wheel drive	\checkmark	
SAFETY		
Reverse alarm	\checkmark	
Rearview camera	\checkmark	
ROPS/FOPS cab	\checkmark	
GUARDS		
Axle	\checkmark	
Crankcase	\checkmark	
Radiator	\checkmark	
Rear window	\checkmark	
OTHER		
Auto lube installation for automatic greasing of bearings		~
Bare chassis (no body) standard wheel base		\checkmark
Body liners		\checkmark
Cold weather coolant -51°C (-60°F)		\checkmark
Exhaust heated body		\checkmark
Fast fuel fill		\checkmark
Fuel additive – anti-waxing		\checkmark
Mud flaps: wheel arch and body mounted with	\checkmark	
transportation tiebacks		
Scissor tailgate		✓
S•O•S sm sampling valves	✓	
Tires, six 23.5R25	√	
Vandalism protection: lockable caps	\checkmark	
Wheel chocks		\checkmark

Technical Specifications

E	ingine	
Engine Model	Cat C	9.3
Gross Power – SAE J1995	255 kW	342 hp
Net Power – SAE J1349	249 kW	334 hp
Net Power – ISO 14396	252 kW	338 hp
Bore	115 mm	4.5 in
Stroke	1149 mm	45.2 in
Displacement	9.3 L	567.5 in ³

• The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.

• The net power advertised is the power available at the flywheel when the engine is

equipped with alternator, air cleaner, muffler, and fan at minimum speed. • Net power when the fan is at maximum speed is 249 kW (334 hp) per the SAE reference conditions.

 Meets U.S. EPA Tier 4 Final, either EU Stage V or EU Stage IV*, Japan 2014, and Korea Tier 4 Final emission standards.

· DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard ISO 22241-1. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

* Stage IV engines comply with the transition provisions of the EU nonroad emission regulation.

No Engine Derating Below	914 m	3,000 ft
Peak Engine Torque Gross (SAE J1995)	1729 N⋅m	1,275 lbf-ft
Peak Engine Torque Net (SAE J1349)	1712 N⋅m	1,263 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Weights				
Rated Payload 24 tonnes 26.5 tons				
Body Capacities				
Heaped SAE 2:1	15 m ³	19.6 yd³		

Transmission		
Speed	km/h	mph
Forward 1	8.1	5.0
Forward 2	15.2	9.4
Forward 3	23.2	14.4
Forward 4	35.5	22.1
Forward 5	49.4	30.7
Forward 6	58.4	36.3
Reverse 1	8.9	5.5

St	andards
Brakes	ISO 3450:2011
Cab/FOPS	ISO 3449:2005 Level II
Cab/ROPS	ISO 3471:2008
Steering	ISO 5010:2019

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.10 kg of refrigerant which has a CO₂ equivalent of 1.716 metric tonnes.

Sound Levels

69±2 dB(A)

• The declared dynamic operator sound pressure level is 69±2 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum cooling fan's speed. The sound level may vary at different cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.

· Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or doors/windows open for extended periods or in noisy environments.

Operating Weights			
Front Axle – Empty	14 050 kg	30,974 lb	
Center Axle – Empty	4646 kg	10,242 lb	
Rear Axle – Empty	4426 kg	9,757 lb	
Total – Empty	23 122 kg	50,975 lb	
Front Axle – Rated Load	2500 kg	5,511 lb	
Center Axle – Rated Load	10 750 kg	23,699 lb	
Rear Axle – Rated Load	10 750 kg	23,699 lb	
Total – Rated Load	24 000 kg	52,910 lb	
Front Axle – Loaded	16 549 kg	36,484 lb	
Center Axle – Loaded	15 397 kg	33,944 lb	
Rear Axle – Loaded	15 176 kg	33,457 lb	
Total – Loaded	47 122 kg	103,886 lb	

Body Plat	e Thickness	
Front Plate	7 mm	0.28 in
Base Plate	13 mm	0.51 in
Side Plates	11 mm	0.43 in

Service Refill Capacities			
Fuel Tank	412.0 L	91.0 gal	
Cooling System	83.0 L	18.0 gal	
Steering/Hoist Hydraulic System	110.0 L	24.0 gal	
Engine Crankcase	38.0 L	8.0 gal	
Transmission	47.0 L	10.0 gal	
OTG	24.0 L	5.0 gal	
Final Drives (each)	7.5 L	1.6 gal	
Axles (each)	26/28/26 L	6/8/08 gal	
Diesel Exhaust Fluid (DEF) Tank	20.0 L	4.0 gal	

Body H	oist
Raise Time	10 Seconds
Lower Time	8 Seconds



Interior Cab

AEXQ2698-01 (2-2020) Build Number: 04A (N Am, Eur, Aus-NZ, Jpn)

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 These products are covered by other Caterpliar warranties. This warranty is subject to the following: This warranty is subject to the following: The arranty period The mean machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user. The Ter new machines and work tools/attachments the warranty period is 12-months/unlimited hours, starting from date of delivery to the first user. The Cr new machines and work tools is 50 hours starting from the date of delivery to the first user. Tor Dragines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Roof Supports; the warranty period is 50 hours starting from the date of delivery in the first user. For Dragines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Roof Supports; the warranty period is not to exceed 24 months the warranty period is not to exceed 24 months from shipment of the last major component from the Caterplian tadefect inmaterial or workmarship is found during the warranty period. Caterpliar velocies) new, remanufactured, or Caterplian place of business is a defender or other source approved by Caterplian and a place of business of a Cat dealer or other source approved by Caterplian approved replacement or components of the product. Derived and freeder. New, remanufactured, or Caterpliar approved replacement or components of the product. Charting normal working hours and at a place of business of the product in which interpliar will, during normal working hours and at a place of business of a Caterpliar will during normal working hours and a can be product in which interpliar approved replacement or components of the product. Charting normal working hours and at a place of business of a cat dealer or other source approved by Caterpliar approved replacement or components of the theorem. Charting normal during hours and a a cat place of the theo	Earthmoving, Consi	u ucuon, material nanung, roresuy an Worldwide	d Paving Machines
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 For hydraulic line's quick connect/disconnect components sold on compact wheel loaders, mini hydraulic excavators, skid steer loaders, multi terrain loaders, and compact track loader machines, the warranty period is 50 hours starting from the date of delivery to the first user. For Draglines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Movers, Hard Rock Feeders, Hard Rock Miners, Hard Rock Movers, Hard Rock Feeders, the warranty period is not be exceeded the Rock Roof Supports; the warranty period is not be exceeded the Rock Roof Supports; the warranty period is not be exceeded the Rock Roof Supports; the warranty period is not be exceeded the Rock Ford Supports; the warranty period is not be exceeded to catepriliar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Catepriliar If a defect in material or workmanship is found during the warranty period, of Catepriliar will, during normal working hours and at a place of business of a Cat dealer or other source approved by Catepriliar Interpreted to a cateprilar schoice) new, remanufactured, or Catepriliar approved repaired parts or assembled components needed to cate approved replaced under the terms of this warranty are warranted for the remainder of the warranty beriod applicable to the product. Items replaced under the terms of this warranty are warranted for the installed as if such parts were original components of that product. Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect. Provide reasonable and customary labor needed to correct the defect. 	Attachments/work tools installed on such machines prior to delivery (unless covered by the Cat® Work Tool warranty statement or	12-months/unlimited hours, starting from date of delivery to the first user. Note:	as stated under
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 s. unber tracks used on multiterrain loaders, compact and mini hydraulic excavators b. Loaders, 216 and 226 Skid Steer Loaders, and former of the last major component from the Caterpillar Schoice) new, remanufactured, or Caterpillar approved repaired parts or assembled components needed to contron the Caterpillar approved repaired parts or assembled components needed to contron the Caterpillar approved repaired parts or assembled components needed to contron the Caterpillar approved repaired parts or assembled components needed to contron the Caterpillar approved repaired parts or assembled components needed to contron the Caterpillar approved repaired parts or assembled components needed to contron the caterpillar approved repaired under the terms of this warranty are warr	This warranty does not apply to:	 For Draglines, Electric Rope Shovels, Hard Rock Movers, Hard Rock Enders Hard Rock Miners Hard Rock Convertors Hard 	Costs to investigate complaints, unless the problem is caused by a defect in Caterpillar material or workmanship.
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 Caterpliar will, during normal working nours and at a place of business of a Cat dealer or other source approved by Caterpillar Provide (at Caterpillar's choice) new, remanufactured, or Caterpillar approved replaced parts or assembled components needed to correct the defect. New: Net: New: remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the product in which installed as if such parts were original components of that product. Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect. Provide reasonable and customary labor needed to correct the defect. 	Cat Work Tools 424 Backhoe Loaders, 216 and 226 Skid Steer Loaders, and	prace of internationation. Caterpillar Responsibilities If a defect in material or workmanship is found during the warranty period,	 Performance of the required maintenance (including use of proper fuel, oil, lubricants, and coolant) and items replaced due to normal wear and tear.
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 Note: New, remanufactured, or Caterpillar approved replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar. Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect. Provide reasonable and customary labor needed to correct the defect. 		correct the defect.	Caterpillar is not responsible for:
 Installed of the matter were original components of that product. Items replaced under this warranty become the property of Caterpillar. Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect. Provide reasonable and customary labor needed to correct the defect. 	785, 789, 793, 794, 795, 797 Off-Highway Truck models sold in regions other than the Commonwealth of Independent States ("CIS") 24 Mater Condenandolo and its regions other than the CIS	provid	 Failures resulting from any use or installation that Caterpillar judges improper.
 Replace lubricating oil, filters, antifreeze, and other service items made unusable by the defect. Provide reasonable and customary labor needed to correct the er defect. 	 24 Motor Grader models sold in regions other than the CIS 854, 992, 993, 994 Wheel Loader models sold in regions other 	installed as if such parts were original components of that product. Installed as if such parts were original components of that product. Items replaced under this warranty become the property of Caterpillar.	 Failures resulting from attachments, accessory items, and parts not sold or approved by Caterpillar.
 Provide reasonable and customary labor needed to correct the er defect. 	trian US Cat Utility Vehicles (UTV)	 Replace lubricating oil, fitters, antifreeze, and other service items made unusable by the defect. 	 Failures resulting from abuse, neglect, and/or improper storage or repair.
	Compact Construction Equipment including Compact Track & Multi Terrain Loaders, Mini Hydraulic Excavators, and Skid Steer	 Provide reasonable and customary labor needed to correct the defect. 	 Failures resulting from user's delay in making the product available after being notified of a potential product problem.
	Loaders sold III OOA of Callada.		 railutes resulting from unautionized repair or adjustments, and unauthorized fuel setting changes.

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Caterpillar's obligations under this Limited Warranty are subject to, and shall not apply in contravention of, the laws, rules, regulations, directives, ordinances, orders, or statutes of the United States, or of any other applicable jurisdiction, without recourse or liability with respect to Caterpillar.

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C) For products supplied in Australia:

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II. PRODUCTS THAT COST AUD 40,000 OR LESS,

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