

TRACTOR WITH 5TH WHEEL WET CONNECTION SPECIFICATIONS

ITEM	SPECIFICATION	MARK COMPLY OR EXCEPTION
BIDDER INSTRUCTIONS	1) Vendors must mark COMPLY or EXCEPTION in the column to the right. Any specification marked as comply must meet the specification 100%, if You cannot comply, mark exception and state what the exception is. 2) All vendors must submit the manufacturer's name and model, along with supporting documentation for all major components being bid. 3) Bid prices and delivery promise must be entered on the price page.	
PART A) CAB AND CHASSIS		
NUMBER OF UNITS	Part (A) One (1) , new 2013 or newer, dual axle, Cab and Chassis for on/off road, severe duty usage.	
G.V.W. R.	80,000 lbs minimum	
WHEELBASE	Approximately 206"	
CAB TO END OF FRAME	Minimum of 167.9"	
CAB TO AXLE	113.2"	
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PART A) CAB AND CHASSIS		
F.G.A.W.R.	Minimum of 13,200 lbs.	

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FRONT AXLE	Minimum of 13,200 lbs., Meritor, Dana Spicer E13221 or approved equal.	
REAR AXLES	40,000 lbs. Single speed, Diff-lock on both Axles, Meritor, Dana Spicer D40-170 or approved equal. Synthetic Lubricant in All Axle and Diff lock on the dash	
SPRINGS AND AIR BAGS	Front: Minimum of 13,200 lbs., multi-leaf or Taper springs. Front suspension to include shocks. Rear: Minimum of 40,000 lbs., Air Trac or equivalent, with dump switch and indicator light.	
ENGINE ELECTRICAL PARAMETERS	Cruise control Maximum speed to be set at 80 mph. Electronic, stationary, variable speed control to be on. Service interval to be on and set for a 3,000 mile interval. Idle shutdown	
ENGINE	ISX15 Cummins Diesel engine having the following minimum specifications: 550 HP @ app. 2000 RPM. Governed speed Having a minimum of 2050 lb./ft. torque @ approximately 1,200 RPM, Engine to have wet sleeves Engine to be turbo-charged with air-to-air inter-cooler. Engine shall use Diesel Emission Fluid. Engine to have Engine brake	
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	PART A) CAB AND CHASSIS	
TRANSMISSION	Fuller FO20E313A-VHP 13 Speed Ultrashift PLUS transmission with factory filled syn fluid. Wiring harness to include spare input/output connectors. Transmission shift control parameter to be performance primary and economy secondary. Shift selector, touch pad type and mounted to the dash panel. Power Take Off provision. Transmission oil cooler external air cooled 8-bolt PTO shall be put on the Transmission for the Wet Connection	

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AXLE RATIO SELECTION	Axle ratio to be determined by the chassis or engine manufacturer's computer software for best balance of performance and fuel economy. Ratio selected to meet the following criteria: Minimum start ability requirement of 17 to 20%. Maximum cruise speed of 80 mph. Capable of pulling inner city grades of 18% at a minimum of 10 mph.	
5 TH WHEEL	JOST JSK37 Fifth Wheel Top Plate or Approve Equivalent Fifth Wheel Setting Behind C/L Bogie 11in 32 or 36in Air Slide For fifth wheel 7.6in – 8inFifth Wheel Height	
WHEELS & TIRES	Front:Alcoa,883677,LvL1,22.5x8.25,Alm,Whl 11R22.5 R260F – 16ply On/Off highway, Maximum speed 80 mph Rear:Alcoa,883677,LvL1,22.5x8.25,Alm,Whl 11R22.5 M843 – 14 ply mud and snow tread The wheels should be Polish	
AIR COMPRESSOR	Bendix or equal, having a minimum air delivery of 18.7 CFM. Compressor to be water cooled.	
AIR DRYER	Bendix AD-IS with 12-volt air purge valve heater.	
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BRAKES	All brakes to be Air Disc Front Axle with Disc Brakes and Aluminum PreSet Hub's Rear Axles with Disc Brakes and Aluminum PreSet Hub's All wheels front and rear to be equipped with dust shields.	
AIR TANKS	Painted aluminum air tanks, include cable operated drain valves.	

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FIELD SERVICE AIR HOOK UP	Field service air hookup is needed to air up vehicle using a tow truck or shop supplied air. Air hookup connector to be easily accessible on Driver's side of cab mounted under or behind cab. Female disconnect air fitting: Milton part number: M-727	
ENGINE COOLING FAN	Fan drive two (2) speed Direct drive-type with residual torque devise for disengaged fan speed. Horton Drivemaster or approved equal. A dash mounted override switch to engage cooling fan when needed.	
FUEL/WATER SEPARATOR	Davco Fuel Pro 382, fuel/water separator. Fuel to be heated by the engine coolant and return fuel to tank or with 12volt power from chassis. Heater to include thermostatic temperature control. Filter Housing mounted to back of cab, on the left side, above fuel tank.	
RADIATOR	Heavy-duty construction with largest cooling capacity as possible 1000 sq. in. minimum. All coolant hoses including heater hoses to be silicone.	
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AIR CLEANER	(2) 13in external Air Cleaners. Air filter restriction gauge to be mounted on intake piping.	
COLD STARTING AIDS	Engine to be equipped with the following: 1) Block heater receptacle attached to a cord that heats the engine coolant. Block heater receptacle to be mounted below the driver's door.	
STARTER	Engine starting motor to be 12 volt with thermal over-crank protection Delco-Remy MT-42 Type 450 or approved equal.	
ALTERNATOR	200 amps. Capacity minimum.	

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BATTERIES	Minimum of four (4) Maintenance Free 12 Volt batteries. Having a combined minimum total of 2800 C.C.A. Batteries to be threaded top post type. Battery cables to have terminal covers for each connection in battery box. Battery box to be mounted under cab constructed of aluminum and lid to be fiberglass or aluminum. Battery box to have remote jump-start studs with tethered caps mounted outside of battery box.	
CHASSIS LIGHTS	Vehicle to be equipped with two frame mounted Stop/turn/tail lights. All marker, stop, turn, tail and backup lights to be L.E.D. Headlights to be H.I.D.	
HORNS	Factory installed air horn mounted on top of the cab and Factory installed electric horn(s) mounted under cab.	
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	PART A) CAB AND CHASSIS	
CAB	<p>Conventional extended 10in day cab capable of two persons seating. All with the following minimum requirements:</p> <ul style="list-style-type: none"> a) All Aluminum constructed, air ride cab, extended day cab & doors with hucked riveted seams. b) Re-enforced aluminum flat floor with aluminum plating. NOTE: Steel reinforcement will not be accepted. c) Full width floor mat, headliner, cab and door interior trim panels d) Thermal insulation in floor, walls, and headliner. e) Tinted safety glass and rear window f) Dual sun visors g) Electric windshield wipers with intermitting feature and washers h) Dome light (s) i) Filtered fresh air intake for HVAC j) Driver's and Passenger entry into cab accomplished by two (2) steps k) Dual electric horns l) Air horn (s) m) Safety Orange seat belts n) Bright finished grab handles o) Power windows p) Power door locks q) Front Window Sun Visor r) Middle of frame wire harness for trailer hook up, airlines, 	

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	<p>hydraulic lines for dump and drop deck trail. (note make room for the cab protector)</p> <p>s) Interior mounted fuse and relay box(s)</p> <p>t) Interior mounted transmission control module (computer)</p> <p>u) Interior engine control module (computer)</p> <p>v) Tilt and telescoping steering wheel</p> <p>w) Cab doors to have stainless steel piano-type hinges and alignment blocks.</p> <p>x) Right cab door to include lower window and top mounted spot mirror</p> <p>y) Body builder harness with speed signal wire under hood or in cab</p> <p>z) CB radio installation kit with power & ground connections.</p> <p>aa) Driver and Passenger air ride seats with center arm rest on the seats.</p> <p>bb) Power mirrors</p>	
ITEM	SPECIFICATION	MARK COMPLY OR EXCEPTION
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STEERING	Power assist steering with adjustable tilt steering column.	
SEATING	<p><u>Drivers seat</u> to be air suspension, high back with integral headrest, vinyl covered, isolated with two position front cushion adjustment, 6 to 17 degree seat back adjustment with air lumbar support. Seat to include right side arm rest.</p> <p><u>Passenger seat</u> to be air suspension high back with integral headrest, vinyl covered, isolated with two position front cushion adjustment, 6 to 17 degree seat back adjustment with air lumbar support. Seat to include left side arm rest.</p>	
GAUGES	<p>All gauges to be analog. Instrument cluster to include the following;</p> <p>a) Speedometer</p> <p>b) Tachometer</p> <p>c) Engine oil pressure</p> <p>d) Fuel</p> <p>e) Voltmeter</p> <p>f) Coolant Temperature</p> <p>g) Engine Air Filter Restriction</p> <p>h) Air System Pressure</p> <p>i) Transmission Temperature</p> <p>j) Warning lights for low oil pressure and high coolant temperature.</p>	

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	k) Outside air temperature display	
HOOD	123in BBC Alum Hood with tilt hood capable of opening fully. Hood to include Fender Extensions and side air inlet(s) for engine and HVAC.	
PAINT	Cab to be painted White. Paint to be Base coat/clear coat or DuPont Imron 5000 polyurethane enamel or it's equivalent.	
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MIRRORS	Two (2) power,heated, west-coast type mirrors with approximately 16" x 7" mirrors and mounting brackets. Two (2) heated 8" convex mirrors mounted below the primary mirrors. Mirror brackets and back of mirrors to be constructed of stainless steel. Mirror brackets mounted to cab.	
EXHAUST SYSTEM	Exhaust is to provide for a clean C/A above and below the frame rail. Truck to have a vertical exhaust stack mounted at the right and left side of cab. Exhaust to include a turn back type tailpipe with chrome finish. Muffler and tailpipe guard to be chrome finish.	
ALUMINUM FUEL/HYDRAULIC/ DEF TANK	Polish Aluminum 26in fuel tank having a minimum capacity of 150 gallons, step tank, frame mounted with lower step for easy entry into the cab. Tank straps to be bright finish stainless steel. Fuel tank mounted under left side of cab. Polish Aluminum 26in All Fuel/Hydraulic tank minimum capacity 50 gallons. Tank straps to be bright finish stainless steel. Hydraulic tank mounted right side back of cab. Polished Stainless Steel Cover For the DEF Tank.	
BUMPER	Aluminum Bumper Deep Tapered Polished With two tow pins	

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KEYS, ALL ALIKE	One key to operate both the door lock and ignition cylinder. Three (3) spare keys are required.	
WARRANTY	Dealer to state standard warranty coverage, Note: Chassis warranty to begin when the Body company delivers the completed vehicle and is accepted by the Summit Co Environmental. After Delivery: Dealership will be allowed a <i>maximum</i> of eight (8) hours to notify the Summit Co. Environmental of diagnostic findings for warranty repairs needed. A <i>reasonable</i> and <i>customary</i> amount of time will be allowed to perform the warranty work. If warranty repairs can not be preformed in a reasonable and customary time, then the Summit Co. Environmental <i>must</i> be notified immediately. Past and present performance of warranty repairs may be considered in making this award and any future bid awards.	
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	PART A) CAB AND CHASSIS	
MANUALS	One (1) Technician's Service Manuals One (1) Parts Manuals One (1) Operator's Manuals. Manuals may be furnished in C.D. form	
SERVICE	Vehicle purchased shall be completely Dealer serviced and ready for use.	
SAFETY EQUIPMENT	<u>Cab Entry Grab Handles:</u> Exterior mounted handles, bright aluminum or chrome and/or, Interior mounted handles, steel painted safety yellow, bright aluminum or chrome. <u>Seat Belts:</u> Driver and Passenger shoulder & lap belts to be Safety Orange.	

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	<p><u>First-aid kit:</u> Standard kit as per Department of Transportation requirements mounted behind passenger seat.</p> <p><u>Fire Extinguisher:</u> 5lbs. ABC Fire Extinguisher mounted to floor, inside cab, Driver's side between door and seat.</p> <p><u>Safety Triangles:</u> Three (3) triangles in red storage box mounted to cab floor behind Passenger seat.</p>	
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	AFTERMARKET	
CAB PROTECTOR	East Combo Steel Hauler w/ Window and Mounting Kit or Equivalent. The cab protector should be the width of the cab.	
REAR WHEEL FENDERS	East Single Axle Fenders (4) Smooth Mill Finish with lips and Mounting Kit or Equivalent. Mud Flaps should be put on the front side of the fenders facing the cab and the back side of the fenders facing the road.	
DECK PLATES AND STEPS	Deck Plates should fit between Cab Protector and 5 th wheel. East Step N Store on both side of the tractor and wide as possible with Mounting Kit or Equivalent. If tractor does not have room for Step N Store, put access on the tractor to reach Cab Protector.	
ITEM	SPECIFICATION	MARK COMPLY OR EXCEPTION
	INSTRUCTIONS TO BIDDERS	

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TITLES	No payment of Cab and chassis will be made until all manuals and titles have been received.	
30-DAY TAG	A 30-day License plate will be issued by the awarded dealership for each completed cab & chassis when received by the Summit County Environmental	
PURPOSE OF SPECIFICATION	<p>While the purpose of specifications is to indicate certain minimum requirements in a way of capacity, strength, construction and other details- their use is not intended to relieve the County of all responsibility in the selection of equipment, which may be considered most suitable for the services intended.</p> <p>Even though proposals furnishing equipment, which may meet minimum requirements, indicated are received, it is not intended that this alone shall limit the contract award to be recommended; but that other factors will be considered together with any experience the Summit County Environmental may have had with this equipment.</p>	
ITEM	SPECIFICATION	MARK COMPLY OR EXCEPTION
	INSTRUCTIONS TO BIDDERS (CONT'D)	
	Payment for cab and chassis will be made after delivery of the chassis to the Summit County	

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Environmental facility		
ITEM	SPECIFICATION	MARK COMPLY OR EXCEPTION
DOCUMENTATION OF ANY EQUIPMENT BID AS AN "EQUAL"	If a product other than that specified is bid, it is the vendors' responsibility to name such a product within his bid and to prove to the County that said product is equal to that specified and to submit brochures, samples and/or specifications in detail on item(s) bid. The County shall be sole judge concerning the merits of bids submitted.	
ITEM	SPECIFICATION	MARK COMPLY OR EXCEPTION
INSTRUCTIONS TO BIDDERS (CONT'D)		
DELIVERY PROMISE TIMETABLE & PAYMENT OF CHASSIS	Upon notification from the chassis Dealer that the cab/chassis is available for inspection, the County will within seven business days, inspect, approve, or reject the cab/chassis pursuant to the detailed specifications. Said approval or rejection will be e-mailed to the chassis dealer and to the awarded body company	

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	Payment for cab and chassis will be made after delivery of the chassis to the Summit County Environmental facility.	
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BACK UP ALARM	Weatherproof electronic 97db. back-up alarm.	
VEHICLE EMERGENCY KIT	Vehicles must be equipped with fire extinguisher, reflective warning triangles and fuses, unless vehicle is equipped with circuit breakers.	
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RUSTPROOFING	Ziebart, 5 yr. rust-proofing for cab, frame and underside of tractor.	
PENALTY FOR LATE DELIVERY	Penalty for late delivery will be assessed at \$100.00 per calendar day per unit, reduction in contract price. Penalty will begin after 120 calendar days has past in accordance with the County of Summit above defined timetable.	
SUMMIT COUNTY ENVIRONMENTAL CONTACT	Any questions pertaining to this bid contact; Mark Lushes at (330) 808-6924 Monday – Friday 7:30a.m. to 4:00pm.	