

STATE OF NEW HAMPSHIRE
Department of Administrative Services
Division of Procurement and Support Services
Bureau of Purchase and Property
State House Annex
Concord, New Hampshire 03301

NOTICE OF CONTRACT

DATE: 12/8/2015
COMMODITY: CONTRACT – TRUCK CAB AND CHASSIS – 36,000 GVWR
CONTRACT #: 8001946
NIGP CODE: 072-0800
CONTRACTOR: LIBERTY INTERNATIONAL CONTRACTOR #: 159019 B001
1400 SOUTH WILLOW STREET
MANCHESTER NH 03103

CONTACT PERSON: JAMES RAMSEY
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EFFECTIVE FROM: DECEMBER 8, 2015 Through: MANUFACTURER'S BUILD DOWN DATE OR UNTIL THE VEHICLES ARE NO LONGER AVAILABLE AT THE PRICE QUOTED.

ELIGIBLE PARTICIPANTS:

Political sub-divisions (counties, cities, towns, school districts, special district or precinct, or any other governmental organization), or any nonprofit agency under the provisions of section 501c of the federal internal revenue code, are eligible to participate under this contract whenever said sub-division or nonprofit agency so desires. These entities are autonomous and may participate at their sole discretion. In doing so, they are entitled to the prices established under the contract. However, they are solely responsible for their association with the Contractor. The State of New Hampshire assumes no liability of any kind and must be held blameless for any association between the Contractor and any of these entities.

NOTICE: It is the responsibility of the Contractor to give the State of New Hampshire, Bureau of Purchase and Property, copies of the manufacturer's scheduled "build down" or "balance out" dates, including the final date of order acceptance.

VEHICLE RECALL NOTICE:

It will be the responsibility of the Contractor to properly complete registration certificates of any vehicle awarded so recall notices will be forwarded to the using agency.

DELIVERY POINT:

For State Government – F.O.B. DESTINATION to state agencies as directed on resulting orders.
Specific delivery addresses within New Hampshire will be shown on orders.
For political sub-divisions – **F.O.B. DESTINATION** as directed on resulting orders
Specific delivery addresses will be shown on orders.

DELIVERY TIME:

The Contractor will be required to accomplish delivery of any item ordered under the contract within 120 days from the placement of the order.

The use of a private carrier to make delivery **does not** relieve the Contractor from the responsibility of meeting the delivery requirement.

TERMINATION:

The State of New Hampshire shall have the right to terminate the purchase contract at any time by giving the Contractor a thirty (30) day written notice.

ORDERING PROCEDURE:

State agencies will place their orders by electronic order entry. Political sub-divisions and authorized non-profit organizations will utilize their own individually established ordering procedures.

INVOICING:

Invoicing shall be done on the basis of each order completed. Invoices shall clearly indicate the quantity, description, packaging; date delivered, and contract number and price. Invoicing for political sub-divisions and authorized non-profit organizations will be in accordance with their individual requirements.

PAYMENT:

State Agencies:

Payments shall be made via Procurement Card (P-Card –Visa Credit Card).

This contract has mandatory Procurement Card usage for agencies enrolled in the State P-Card Program.

Political sub-divisions and authorized non-profit organizations:

Shall utilize their own individually established payment procedures.

DESCRIPTION

Delivered Price / Unit

NEW 2016 INTERNATIONAL MODEL 7400 SFA 4X2, 36,000 # GVWR TRUCK CAB AND CHASSIS AS PER STATE OF NEW HAMPSHIRE SPECIFICATION #'S 2015-00 AND 2015-48 DOT	\$ <u>135,325.00</u>
ADD FOR OPTIONS:	
1. CAB TO AXLE DIMENSION 96"	\$ <u>NO CHARGE</u>
2. CAB TO AXLE DIMENSION 108"	\$ <u>NO CHARGE</u>
3. CAB TO AXLE DIMENSION 120"	\$ <u>550.00</u>
4. HEATED WINDSHIELD	\$ <u>500.00</u>
DEDUCT FOR OPTIONS:	
REMOVE LEFT OR RIGHT FRONT DRIVER CONTROLLED OVERLOAD AIR BAG	(\$ <u>475.00</u>)
REMOVE SOFTWARE REQUIREMENT	(\$ <u>44,325.00</u>)

Questions: Alan Hofmann, Purchasing Manager
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GROSS VEHICLE WEIGHT RATING MINIMUM 36,000 POUNDS

CAB

- CONVENTIONAL 3-POINT ACCESS CAB, ADDITIONAL GRAB HANDLE TO BE MOUNTED ON THE EXTERIOR OF DRIVER AND PASSENGER SIDE CAB CORNERS
- BUTTERFLY HOOD OR HATCHES TO ALL SERVICE POINTS
- STATIONARY GRILLE
- DUAL FACTORY INSTALLED 7" FENDER MOUNTED HEATED CONVEX MIRRORS
- ONE PIECE WINDSHIELD
- DRIVER AND PASSENGER DOOR OPERATING VENT WINDOWS OR FACTORY INSTALLED VENT SHADES
- CAB NOISE SUPPRESSION ON INSIDE OF FIREWALL AND ENGINE COMPARTMENT AND ADDITIONAL FRONT DIRECTIONAL TURN SIGNAL LIGHTS TO BE MOUNTED ON TOP OF OR IN FENDERS.
- INNER FENDER SPLASH GUARDS
- CAB SUSPENSION TO BE AIR BAG TYPE
- AUX. HEADLIGHT HARNESS SWITCHED IN CAB TO FRONT OF VEHICLE FOR PLOW LIGHTS & TURN SIGNALS CONSISTING OF THREE (3) EA. # 1157 BULBS ON EACH SIDE
- RUBBER FENDER EXTENSIONS
- OUTSIDE AIR / TEMPERATURE MONITOR
- WIPER FORCED TO INTERMITTENT WHEN SERVICE BRAKE IS APPLIED

CAB HEIGHT MINIMUM 59-1/2" (EXTERIOR FRAME TO TOP OF CAB)

CAB – AXLE DIMENSION 88" USABLE

BBC DIMENSION 107" – 110"

TRANSMISSION

- ALLISON AUTOMATIC – 3500 RDS, FIVE SPEED, PRE SELECT FOR SELECT ONE (1) GEAR DOWN VARIABLE COMPRESSION ENGINE BRAKE 3RD GEAR HOLD WITHOUT (LBSS) LOAD BASED SHIFT SCHEDULE
- RIGHT SIDE DASH MOUNTED TOUCH PAD CONTROL
- AUTO NEUTRAL WHEN PARKING BRAKE IS APPLIED
- INTEGRAL OIL LEVEL SENSOR
- TES 295 APPROVED SYNTHETIC FLUID
- EXTENDED TRANSMISSION WARRANTY COVERAGE- PARTS, LABOR AND TOWING FOR FIVE (5) YEARS, UNLIMITED MILEAGE FROM IN-SERVICE DATE (DETERMINED BY STATE)
- AUXILIARY COOLING

PTO AND PUMP

- ALSO INCLUDED: DRIVERS SIDE INSTALLED CHELSEA WET SPLINE PTO MODEL #277XGFJW-B5AF TO INCLUDE HOSE KIT #329130-1 AND A HYDRAULIC PUMP THAT SHALL BE A PARKER MODEL #324-9110-448
- A FACTORY IN DASH ILLUMINATED SWITCH SHALL BE INSTALLED, LABELED "PTO". THE SOURCE OF THE POWER SHALL BE THROUGH THE VEHICLE'S BODY CONTROLLER

COOLING

- HEAVY DUTY WITH LONG LIFE ANTIFREEZE AND A COOLANT RECOVERY TANK
- AIR CONDITIONING TO BE FACTORY INSTALLED

BATTERY & ALTERNATOR

- THREE (3) -BATTERIES EACH HAVING 180 AMP HOUR RATING (9N COMBINATION) WITH 2,775 CCA, LOCATION DETERMINED BY STATE
- DELCO 24 SI OR LEECE-NEVILLE 160 AMP ALTERNATOR
- BATTERY BOX MOUNTED FOR CLEAN C.A. IF AVAILABLE

BRAKES

- POWER - ABS, ALL WHEEL, AIR BRAKES, CAM
- AIR BRAKE PROVISIONS TO REAR OF CHASSIS
- COMPRESSOR CAPACITY (13 CUBIC FT. MIN.)

- AUTOMATIC SLACK ADJUSTERS FRONT AND REAR
- ANCHORLOCK PARKING BRAKE (OR EQUIVALENT), MGM BRAND, MERITOR OR BENDIX SEALED LONG STROKE CHAMBERS WITH STAINLESS STEEL PINS
- ADIP AIR DRYER LOCATED ON OUTSIDE OF FRAME LOCATION DETERMINED BY STATE
- DUST SHIELDS – ALL WHEELS

ENGINE – DIESEL

- INTERNATIONAL N9 300 HP @ 2,000 RPM, 860 FT LB @ 1,200 RPM
- CUMMINS ISL 8.9 300 HP @ 2,200 RPM, 860 FT LB @ 1,300 RPM
- PACCAR PX-9 300 HP @ 2200 RPM, 860 FT LB @ 1400 RPM
- SHALL INCLUDE ENGINE BRAKE
- FUEL/ WATER SEPARATOR LOCATED ON OUTSIDE OF FRAME OR UNDER HOOD
- FUEL FILTER,
- 2 POSITION PROGRAMMABLE STEP UP THROTTLE (PRE-SET AT 1,000 RPM & 1,200 RPM)
- AUDIBLE ALARM
- STEEL, CAST ALUMINUM OR A COMPOSITE SUMP OIL PAN
- DEF TANK MIN SIX (6) GALLON, LOCATION TO BE DETERMINED BY STATE.

EXTENDED ENGINE WARRANTY

- A FIVE (5) YEAR, OR 6,000 HOUR 100% PARTS, LABOR AND TOWING WARRANTY SHALL COVER COMPUTERS, MODULES, ELECTRICAL CONNECTIONS, CONNECTORS, WIRING HARNESES, INJECTORS, INJECTOR LINES, TURBOS, WATER PUMPS, FUEL FILTER ASSY, STARTERS, CLUTCH FANS, ALTERNATORS, OIL AND FUEL PRESSURE PUMPS, OIL AND WATER SEALS, ALL ENGINE MECHANICAL PARTS AND EMISSION RELATED COMPONENTS. MAINTENANCE COMPONENTS SUCH AS BELTS, HOSES AND FILTERS ARE EXCLUDED. WARRANTIES TO BEGIN ON THE IN-SERVICE DATE OF THE CHASSIS **AS DEFINED** BY THE STATE.

EXTENDED BASE CHASSIS WARRANTY

- A FIVE (5) YEAR OR 100,000 MILE CHASSIS WARRANTY SHALL CONSIST OF BUT NOT LIMITED TO
- CLIMATE CONTROL SYSTEM COVERING THE HEAT AND AC SYSTEM, ELECTRICAL COMPONENTS, LINES WIRING, AMBIENT AIR TEMPERATURE SENSOR, AND RECEIVER DRYER.
- COOLING SYSTEM
- SUSPENSION FRONT AND REAR
- STEERING SYSTEM
- STARTER & ALTERNATOR
- DRIVELINES
- CHASSIS WIRING AND CONNECTORS
- GAUGES AND SWITCHES
- CHARGE AIR COOLER
- AIR SYSTEM
- BRAKING SYSTEM
- INTERIOR COMPONENTS
- FACTORY INSTALLED ACCESSORIES

STEERING

- HYDRAULIC POWER STEERING WITH DUAL STEERING BOXES
- STEERING WHEEL DIAMETER MINIMUM 16" WITH TILT ADJUSTABLE COLUMN

ELECTRICAL

- ALL ELECTRONIC CONTROLLERS, EXCEPT ENGINE ECM AND THE TRANSMISSION CONTROL MODULE, TO BE LOCATED IN THE CAB AND NOT TO INTERFERE WITH SPACE BETWEEN SEATS,
- SINGLE HARNESS IN TRUCK FOR VEHICLE SPEED AND GROUND SPEED SENSING.
- AUX. PARK BRAKE ALARM
- HEADLIGHTS ON W/WIPERS
- CB RADIO PREP PACKAGE WITH 2 FT. SPRING MOUNTED ANTENNA (S)
- 12V ACCESSORY PORT
- PRE-WIRED CIRCUIT FOR ELECTRIC TRAILER BRAKES
- SEVEN WIRE HARNESS TO REAR OF FRAME FOR A TWO (2) LIGHT (COMBINATION STOP/TURN/TAIL) SYSTEM WITH A PACKARD CONNECTOR #12124685 & #12124686 INSTALLED AND A SUPPLIED PHILLIPS STA-DRY PLUG ASSY PART # 48NA33-036
- A MINIMUM OF SIX OPTIONAL IN-DASH SWITCHES WITH INDICATOR LIGHTS SHALL BE PROVIDED, KEY POWERED AND TERMINATING @ FIREWALL ARRANGED AND LABELED IN THE FOLLOWING CONFIGURATION. FIVE SWITCHES SHALL BE ARRANGED AND MARKED "PTO", "SPREADER LIGHT", "LEFT SPREADER LIGHT", "RIGHT SPREADER LIGHT", "PTO

OVERIDE SWITCH", ONE SWITCH MARKED SPARE. TWO INDICATOR LIGHTS SHALL BE PROVIDED FOR THE "BODY UP (RED)", "HYDRAULIC LOW OIL AND "HI-TEMPERATURE SHUTDOWN (RED)".

Chassis Manufacturing on Site Support

SPREADER LIGHT

1. Depressed, if the switch is activated and the output is good the green indicator light in the switch will illuminate steady on.
2. If the switch is activated and the output is bad the green indicator light in the switch will flash. The output is tied to the exterior lamp check. When the exterior lamp check is requested this output will be on.

LOW OIL INDICATOR

1. To give the operator a warning the hydraulic oil is low.
2. The body company will provide a ground signal to the Remote Power Module (RPM). When this signal is received the cluster beep will sound and the red light in the dash will be on steady indicating low oil in the reservoir.
3. When the hydraulic oil is high in temperature over 200 degree Fahrenheit the same oil indicator light will flash quickly and shut down the PTO at a pre-determined time.

PTO

1. When the switch is activated the letters PTO light up in the instrument cluster alerting the operator that the PTO is on. PTO activation requires the engine speed to be less than 900RPM No other engagement conditions are required.
2. The PTO will automatically dis-engage if any of the following are active
3. PTO switch is off
4. Low oil input signal active
5. Engine speed is greater than 2500 RPM
6. Ignition key is off
7. Hi-Temp is active and the timer has expired. It has a low oil shutdown feature built into it that when the oil level indicator is activated it automatically shuts off the PTO. There is an override switch located in the dash. This is will be a momentary over ride switch. The override switch will allow for PTO operation as long as the switch is held down. The override function will only work once. To allow the override function a second time the key must be cycled.

FAULT DETECTION MANAGEMENT

1. The fault detection management for the PTO switch is an indicator light built into the switch it will flash fast green when there is a fault with the PTO output. The virtual fusing is set for 20 amps.

REAR STROBES

1. The requirement is that the rear strobe lights be OFF when the right or left turn signals are active. The strobe lights are controlled by the Whelen module. When the right or left turn signal is active the output to the strobes is canceled. The function works with key on or off.

BODY UP

1. A ground signal will be returned to the RPM from a customer installed switch on the body determined by the State. When the ground signal is true the RED indicator light in the center panel will illuminate. If the signal is true and the vehicle speed reaches 5mph the cluster beeper will sound alerting the operator that the body is still up.

BACK UP CAMERA

1. Key ignition powered.
2. When the vehicle is engaged into reverse the camera will automatically activate and turn on. When put into drive the camera will automatically turn off unless you have powered the monitor on manually.

SUSPENSION

FRONT AXLE

- 16,000 # WITH WET TYPE OIL SEALS

FRONT SPRINGS

- 16,000 # COMBINED RATING @ GROUND, MULTI-LEAF, SEMI-ELLIPTIC
- NOTE: IF SETBACK FRONT AXLE IS OFFERED, ADD 2,000 # TO MAIN SPRING/AXLE GROUND RATING
- RIGHT OR LEFT FRONT (AS SPECIFIED) DRIVER CONTROLLED AIR BAG OVERLOAD

REAR AXLE

- 23,000 # EATON, MERITOR OR SPICER, MINIMUM 18" RING GEAR
- DRIVER CONTROLLED LOCKING DIFFERENTIAL
- SINGLE SPEED AXLE (RATIO TO BE DETERMINED BY USING AGENCY)

REAR SPRINGS

- 30,000 # TOTAL COMBINED RATING @ GROUND, INCLUDES REAR MAIN MULTI LEAF, AND 2,250 # AUXILIARY SPRINGS

DRIVELINE

- SPICER SERIES 1710 SERIES

TIRES: TYPE, WHEEL/TIRE SIZE

- SIX (6) – HEAVY DUTY ACCURIDE 24.5" X 8.25", POWDER COATED STEEL, HUB PILOTED, 0.472" DISC WHEELS WITH GUARDS FRONT & REAR
- SIX (6) – 11R24.5 (H) TUBELESS RADIALS
- WHEEL WRENCH AND HANDLE

ACCEPTABLE BRAND TIRES**FRONT**

- GOODYEAR G287 MSA, GOODYEAR G751 MSA OR MICHELIN XZY-3

REAR

- GOODYEAR G282 MSD OR MICHELIN XDS-2

FRAME

- HEAT TREATED ALLOY STEEL FRAME WITH MINIMUM YIELD STRENGTH OF 120,000 PSI AND MINIMUM SECTION MODULUS OF 20.6
- 1 PIECE, FULL DEPTH FRAME TO EXTEND A MINIMUM OF 12" BEYOND FRONT OF GRILLE.
- AF-MINIMUM 48"
- EXCLUDING FUEL TANK INTRUSION, BOTH OUTSIDE FRAME RAILS TO BE FREE OF OBSTRUCTIONS FOR TWENTY FOUR (24) INCHES BEHIND THE CAB TO ALLOW ROOM FOR MOUNTING A WING CABINET NO CROSSMEMBER IN SAME TWENTY FOUR INCH (24") AREA.
- MINIMAL OBSTRUCTIONS FOR NEXT THIRTY (30) INCHES FOR PIPE BRACES

INSTRUMENTS/CONTROLS

- SPEEDOMETER, TACHOMETER, AMMETER/VOLT-METER, FUEL GAUGE (S), OIL PRESSURE GAUGE, TEMPERATURE GAUGE AND AIR PRESSURE GAUGE
- ALL NECESSARY ELECTRICAL SWITCHES
- HOUR METER, ACTUATED BY ENGINE OPERATION
- DASH MOUNTED AIR RESTRICTION INDICATOR

FUEL SUPPLY

- STAINLESS STEEL OR ALUMINUM TANK WITH STAINLESS STEEL STRAPS HAVING A MINIMUM CAPACITY OF 70 GALLONS
- STEP TYPE FUEL TANK. NOT TO EXCEED 8" BEYOND REAR OF CAB

EXHAUST SYSTEM

- HORIZONTAL, VERTICAL (OR COMBINATION) MUFFLER SYSTEM SHALL BE CONFIGURED NOT TO INTERFERE WITH PTO'S OR HYDRAULIC CABLES.
- STACK (INCLUDING 90 DEGREE TURN OUT) MUST NOT EXTEND ABOVE TOP OF CAB. AND NOT TO EXCEED 4" BEYOND REAR OF CAB.

PAINT

- CLEAR COAT OMAHA ORANGE (SAME AS DUPONT DULUX 93-082) LEAD FREE
- NOTE: SEE INDEPENDENT PAINT TESTING REQUIREMENTS AS PART OF THIS SPECIFICATION

RADIO/SPEAKERS (FACTORY)

- AM/FM WITH WEATHER BAND

SEATS-DRIVER/PASSENGER

- BUCKET, AIR SUSPENSION, HIGH BACK, HEAD REST, DRIVER'S ARM REST (RH) (NATIONAL CUSHION-AIRE OR EQUAL), HD CLOTH MORDURA, MILLIKEN (NGV) OR EQUAL.

FLOOR COVER

- VINYL WITH FACTORY RUBBER AUXILIARY MATS

LIGHTING, REQUIRED

- DAYTIME RUNNING, PRE-TRIP INSPECTION LIGHT TEST

MIRRORS, OUTSIDE RIGHT AND LEFT

- HEATED 6" X 15" EXTENDING TO 96" WITH A HEATED 7" CONVEX MIRROR
- PASSENGER SIDE "LOOK DOWN" CONVEX MIRROR

BUMPERS -FRONT

- NONE REQUIRED

BACK UP ALARM

- ELECTRIC

HORNS

- AIR AND ELECTRIC – DUAL NOTE, BOTH MOUNTED UNDER CAB

TOW PACKAGE

- Trailer tow package shall be provided and include trailer light package, hand operated control valve, and air lines to rear of frame.

SOFTWARE

- DIAGNOSTIC SOFTWARE AND ALL REQUIRED LAPTOP COMPUTER CABLES AND OR CONNECTIONS FOR DIAGNOSIS OF ENGINE (INCLUDING KEY ON AND KEY OFF TEST, CYLINDER CUT OUT TEST, INJECTOR DISABLE TEST), CHASSIS & ELECTRICAL SYSTEM, AND ABS SYSTEM. LATEST VERSION OF ALLISON TRANSMISSION SOFTWARE SHALL BE PROVIDED FOR PROGRAMMING WITH ONE DAY ON SITE (DOT) PROGRAMMING INSTRUCTION.
- ALL SOFTWARE TO INCLUDE FREE UPDATES AND RENEWALS OF ALL SUBSCRIPTIONS FOR A PERIOD OF TEN (10) YEARS BEYOND MODEL YEAR. THIS SPECIFICATION SHALL REQUIRE A QUANTITY OF NINE (9 EACH) COMPLETE SETS OF THE ABOVE SOFTWARE BE SUPPLIED AND DELIVERED TO NHDOT MECHANICAL SERVICES AS PART OF THIS SOLICITATION AND INCLUDED IN THE UNIT COST.

SYSTEMS CALIBRATIONS

UPON FINAL AWARD, THE CONTRACTOR WILL PRESENT A COMPLETE LIST OF DEFAULT ENGINE, ELECTRICAL, FUEL AND TRANSMISSION SYSTEM CALIBRATIONS FOR REVIEW AND ADJUSTMENT WITH THE END USER

SERVICE AND PARTS MANUALS

- FOR THE LIFE OF THE VEHICLE (\$), THE CONTRACTOR SHALL PROVIDE WEB BASED ACCESS TO ALL TRUCK-SPECIFIC SERVICE MANUALS, TECHNICAL SPECIFICATIONS AND PARTS CATALOGS FOR A MINIMUM OF NINE (9) NHDOT VEHICLE MAINTENANCE LOCATIONS.

APPLICATION: THIS SPECIFICATION COVERS THE STATE OF NEW HAMPSHIRE'S MINIMUM REQUIREMENT FOR A VOCATIONAL CAB & CHASSIS, INTENDED FOR THE SOLE PURPOSE OF PLOWING, SANDING AND OTHER HIGHWAY MAINTENANCE OPERATIONS. TO FACILITATE THE MOUNTING OF PLOW EQUIPMENT, AMPLE SPACE MUST BE AVAILABLE FOR LEFT AND RIGHT POWER TAKE OFFS. CLEAR SPACE BENEATH AND TO THE REAR OF THE CAB FOR HYDRAULIC CABLES AND WING CABINET. ALL EXPOSED CONNECTIONS SHALL BE SEALED AND 100% WATER TIGHT. THE MANUFACTURER WILL BE SOLELY RESPONSIBLE FOR MEETING THIS REQUIREMENT.

- EACH VEHICLE SHALL COME WITH A VALID STATE OF NH INSPECTION STICKER AND TEMPORARY REGISTRATION

