



Logan-Rogersville R-VIII SCHOOL DISTRICT

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TO: School Bus Suppliers
FROM: Logan-Rogersville R-VIII School District
Mr. Jason O'Neal, Assistant Superintendent
DATE: March 29, 2019
RE: Request Bids for Purchase of School Bus

The Logan-Rogersville R-VIII School District Board of Education is accepting bids for three (3), 2020 model year, 71-passenger conventional school buses.

Bids are due in the office of the Assistant Superintendent of Schools no later than 10:00 AM on Monday, April 15, 2019 at which time bids will be opened publicly. Bids may be mailed to the District Office or sent in an email attachment to Mr. Jason O'Neal at loganrogersvillesealedbids@gmail.com. Specifications are enclosed with this letter and also listed on the District website at www.logrog.net under Public Notices.

The Board of Education reserves the right to accept or reject any or all bids. Bids will be considered at the April, 2019 Board of Education meeting. Purchase of buses will occur after July 1, 2019 with a delivery date on or before August 1, 2019.

LOGAN-ROGERSVILLE R-VIII SCHOOL DISTRICT BUS BID FORM

Supplier: _____

Total Bid: _____

Date

Signature

Title

If you need additional information, please contact Mr. Darren Ashley, Transportation Director at (417) 887-9517 or (417) 838-6005.

Please submit supporting documentation with this form regarding the enclosed bus bid specifications.

LOGAN-ROGERSVILLE R-VIII SCHOOL DISTRICT

APRIL, 2019 REQUEST FOR PROPOSAL

SCHOOL BUS BID SPECIFICATIONS

CHASSIS SPECIFICATIONS

- 2020 Model Year 71 Passenger Conventional School Bus Chassis
- 2018 EPA and GARB certified low-emission engine
- 276" Wheel Base
- Frame Rails: high strength, low alloy steel, 50,000 PSI
- Bumper, Front: Full width aerodynamic, 1/4" minimum thickness, heavy-duty steel. Bumper, Rear: 12" high, 3/16" thickness
- Frame Members, Attachment, & Supports: attached using threaded Grade 8 fasteners with lock nuts.
- Chassis Frame Rails and some Attachments: Painted gloss black finish for maximum rust and corrosion protection after assembly
- Axle, Front: I-beam type with 10,000 lb. capacity - Meritor
- Suspension, Front: Parabolic taper leaf design with 10,000 lb. capacity and shock absorbers
- Axle, Rear: Meritor single reduction, 19,800 lb. capacity
- Magnetic drain plug
- Rear Suspension Air Ride 21,000-lb capacity 9.25" ride height
- Steering Shaft: U-Joints shall be serviceable with crease fittings
- Steering Column: To be Telescopic adjustable tilt type
- Power steering - TSW-66 TRW Power Steering Power
- Tilt Hood Assist With Three Piece Construction
- Exhaust to exit in front of left-hand rear duals
- Cruise control

ENGINE

- Minimum of 260HP/660 FT LB Torque - Must be OEM Programmed From Factory
- Engine Must Produce a Minimum of 660 Ft/Lb of Toque. Must be OEM Programmed From Factory
- Heavy Duty Cooling System with Electric Fan Clutch
- 750-watt engine block heater with socket on front bumper
- Engine Warranty (5) year/ 100,000 Mile

TRANSMISSION

- Electronic 6 Speed Automatic Transmission With Overdrive
- Filled with Synthetic Fluid, Program with Fuel Sense Performance
- 5.29 Gear Ratio
- 33,000 lb GVW School Bus
- Gross Input Torque 780 Nm, Gross Input Power 300 hp
- Seven (7) Year Transmission Warranty

ELECTRICAL

- Minimum 210 Amp Alternator With High Output At Low Engine Speed, Pad Mounted
- Electrical Circuits Protected By Manual Re-Set Circuit Breakers For Body and Chassis
- Magnetic Body Cut-Off Relay
- Halogen Headlights - Require No Tools For Replacing
- Daytime Running Lights To Activate When Transmission Is Shifted Into Gear, Lights To Remain Off When Transmission Is In Neutral Or Park Position
- Headlight and Taillights Instant On Feature With The Activation Of Windshield Wipers
- All Wiring Color Coded And Numbered For Their Appropriate Function
- All Wiring Shall Be Grommet Protected Where It Passes Through Metal
- Engine Exhaust Brake Switch
- Two 925 CCA Batteries
- Batteries To Be Enclosed In 14 Gauge Battery Box
- Compartment With Pull Out Tray On Stainless Steel Rollers
- Mounted On Left Frame Rail
- Dual Electric Horns - Trumpet Style

- On Board IP Display Diagnostic in Gauge Cluster
- Engine Alarm System - Bus shall be equipped with both visual and audible alarms notifying the driver in the event of low oil pressure or high water temperature.
- Voltmeter, Oil and Temperature Gauges, Speedometer, Trip Odometer, Tachometer, Fuel Gauge, Hour meter. Additionally, the instrument panel shall be illuminated and include text light indicators monitoring both the amber and red warning light activations, emergency exit door opening, low coolant level and cruise control activation.
- Body electrical disconnect solenoid through ignition.

BRAKE SYSTEM

- Brake System: Full Air Front/Rear
- Air Dryer, Automatic Front and Rear Slack Adjusters, Air Compressor 13.2CFM
- Air Brake ABS
- Vehicle Wheel Control System (4-Channel) with Automatic
- Electronic Stability Control
- Parking Brake Interlock

FUEL and DEF

- 100 Gallon Fuel Tank Mounted Between Frame Rails With Heavy Duty Crash Barrier
- Fuel Tank Sender Inspection Plate: For ease of service, an inspection plate shall be mounted over the fuel tank in the floor of the bus body
- The Heavy Duty ICC Guard Mounted on the Outside of the Frame Rails for Additional Protection
- DEF, Hold a Minimum of 12 gallons, with heating element
- Heated Fuel/Water Separator with Filter Mounted on the Engine for Serviceability
- Primer Mounted on the Engine (with warranty)
- Fuel Restriction Indicator Light on the Dash to Alert Driver/Mechanic of a Dirty Filter, Which Maximizes Filter Usage and Reduces the Cost of Replacing Unnecessary Filters
- Water-In-Fuel (WIF) Sensor To Notify The Driver, Via WIF Light On The Dash, Eliminating The Need To Check The Sight Glass
- Heat Shield: For increased heat deflection, a heat shield shall be located between fuel tank and the DPF
- Fuel filler door to be equipped with a latch

WHEELS

- Wheels: Steel Powder Coat 8.25" x 22.5"
- Steel disc, hub piloted, 10 Stud

TIRES

- Front, 11R22.5/22.5" Michelin X Works Z Load Range H 16P
- Rear, 11R22.5/22.5" Michelin X Works Z Load Range H 16P
- Oil bath front seals

WARRANTY

- Extended 3 Year 50,000 Mile Body and Chassis Warranty Bidder shall include a copy of the warranty certificate with the bid detailing component coverage. (addendum)
- 60 Month Unlimited Towing for Warrantable Items with a \$550 per tow coverage

BODY SPECIFICATIONS

- 71 Passenger Seating Capacity
- 2020 Model Year Conventional School Bus Body
- Body Length To Be 34'11"
- Minimum Interior Headroom In Passenger Compartment Of 78"
- Bus must meet all Missouri State Specifications for 71 Passenger School Bus and Previously NOT Titled
- Body Construction Will Conform To FMVSS220 And FMVSS221 For Joint Strength And Roll Over Protection, including Floor Joints
- Body To Be Attached To Chassis With GRADE 8 Bolts, Each Bod Section Equipped With An Anti-Spin Off Device
- The Side Panels On Outside Of Bus Are To Be A Minimum Of 16 Gauge Smooth Steel
- Four (4) Full Length Exterior Rub Rails, Painted Black Flange To Flange-To Be Installed With Buck Type Rivets
- Top Of Each Rub Rails To Be Sealed With Caulk And Bottom To Have Drain Holes

- Body bows Are To Be a Minimum Of 14 Gauge Steel And Of One Piece Design, Extending From Floor Line To Floor Line To Eliminate Damage To Bows If Lower Skirt Is Damaged
- Exterior Lower Body Skirts Are To Be A Minimum Of 16 Gauge Steel, 20" Lon , And Mounted On Heavy Gussets
- Roof Bows To Be Threaded Through Roof Strainers And Drip Rails For Strong Body integrity
- 39x10x10 Storage Compartment Located Above Driver Window area with Non-locking Latches and Padding
- One Piece Roof Panels From Window To Window
- Aluminized Steel Inner Side Walls
- Body/ Chassis Integration: The bus body and chassis shall be assembled in one complete process. To eliminate exposure to exterior elements the chassis shall be built at the same time as the body and the body immediately mounted onto the chassis. Chassis shipped from a separate assembly plant to the body plant are not acceptable
- Interior Header Panels, Front And Rear, To Be Removable To Allow Access To The Roof Cap Area
- Full Length Rain Gutter
- All Ceiling Panels To Be Perforated Type With Acoustic Lining in All Sections
- Ceiling Panels to Be Installed with Rivets
- Complete Insulation, Including Corners, Headers, Ceiling And Roof Bows, Minimum 1 ½" Thickness,
- Ceiling Insulation To Be Covered With A Full Length Scrim Cloth Type Material To Prevent Insulation From Coming through The Perforated Headliner
- Front and Rear Bulkhead to Have Access Doors with Non- Locking Latches. Front Bulkhead To Have A Metal Panel Backing For Future Installs

REAR BUMPER

- To Be Die Formed 3/16" Steel, Minimum 12" Face With 12" Wrap Around
- Rear Tow Hooks (2) Mounted Behind Bumper With Screwed In Access Panels.

DOORS

- Entrance Door Outward Opening Minimum 35" wide Air Operated with Dump Valve above Door with Vandal Lock
- Skirts to Center Hub Level
- Entrance Door to have an Aluminum Frame With Three (3) Pin Style Hinges
- To and Bottom Glass of Entrance Door to be interchangeable
- Front and rear doors to have 4" added header over the doors
- Entrance Door to Have Exterior Non-Corrosive Handle Mounted to Front Door Panel To Open and Close Entrance Door
- Exterior Key to open and close entrance door
- Three (3) step design with a minimum 35" clear opening for ALL steps
- Entrance step risers to be 9" and equal in height
- For increased durability, the stepwell shall be constructed of 14- gauge galvanized steel, powder coated black for protection, welded and sealed to the main floor structure. For increased passenger access, the stepwell shall remain its full width with no taper from the bottom step to the top step
- Rear Center Emergency Door Must Conform to FMVSS217 for Emergency Exits
- Stainless Steel Grab Rail Aft of Entrance Door
- Stainless Steel Grab Rail Forward of Entrance Door
- Rear Emergency Door To Have Lower Glass
- Rear Emergency to have Internal Hinges With Zinc Fittings - Piano Style Hinges Will Not Be Accepted
- Vandal Locks Rear Door
- Rear Vandal Lock To Have Buzzer and Ignition Interlock To Prevent Bus From Starting When Door Is Locked With Red Arrow RR indicating Door Opening Direction

WINDOWS and WINDSHIELD

- (3) Three-piece Flat windshield and with NO Center Post to Obstruct Drivers View
- Windshield to Be Solex Tinted With Heavy Tint Border At top Of Glass band
- Windshield must be Roped In for Ease of Replacement and Lower Cost of Repairs
- Windshield Wipers to be bottom mounted with individual electric motors, intermittent control switch and wet arm style.
- Wipers To Have Overlapping Wet Arm Design and 22" Blades

- Wipers To Have 5 Five Intermittent Speeds
- Wiper Control To Be Located On Turn Signal Stalk
- 12" Aluminum Sash Windows with 28% Light Transmission Tinted Laminated Glass
- Window Latch To Be Replaceable Without Removing Window

EMERGENCY EXITS

- Four (4) Vertical Hinged Push Out emergency Exit Windows
- Two (2) SMI 9245-0200 Front and Rear Roof Hatch; With Outside Release, with English Decals

SAFETY EQUIPMENT

- 5 LB Fire Extinguisher Mounted On Floor In The Drivers Area
- Triangle Reflector Kit To Be Secured Off The Floor Behind Driver Seat TO Prevent Damage, and A Tri Hazard
- Missouri First Aid Mounted To The Front Header
- Missouri Bod Fluid Kit Mounted To The Front Header
- 112D Back U Alarm Activated B Reverse Gear
- Post Trip Child Inspection System: The bus shall be equipped with a No Student Left Behind system, or equivalent.
- Red Colored "Noise Suppression Switch" To be Dash Mounted. Switch To be Labeled "Noise" or "No Noise". Single Switch To Control All Heater Motors, Defrost Fans, and Radio so that the Driver can hear at Intersections and Railroad Crossings

SEAT and UPHOLSTERY

- Air suspension seat, suspension width of 13.5 inches, 4-position/3 inches of independent height adjustment, 2-way lumbar recline, and 6" track travel
- Driver's Seat Belt Shoulder Harness With Adjustable Height Wall Mounted Retractor For Drivers Seat
- Seating Capacity To Be 71 Passenger
- Passenger Seats 39" High Back Seats
- BTI - First (2) Rows Shall be 2 Integrated Child Seat per Seat. Seating Arrangements, All Passenger Seats Must have an interchangeable Seat Back Module that Allows for Future Upgrades. Upgrades included Three (3) Point Lap/Shoulder Belt for Up to Three (3) Passengers Per Seat; Integrated Child Seat (ICS) with a 5 Point Harness and Sliding Should Height Adjusters to Accommodate Significantly Taller Children. All upgrades to be accomplished without replacing or removing the Seat Base Frame from the Floor. Example would be IMMI Safeguard Exchange Seats
- All Seats Upholstered With Heavy Duty 42 Ounce PREVAIL Vinyl Material, Gray in Color
- Bottom Seat Foam to be Virgin Foam for Longer Life and Reduced Foam Breakdown
- Two (2) Year Warranty on Seat Vinyl
- Four (4) Year Warranty on Seat Foam
- Five (5) Year Warranty on Seat Frame
- 5" Fire Block Upholstered Header Pad Above Emergency Door and Entrance Door - Gray
- Padded 39" Wide, Right and Left Barriers at Entrance
- Modesty Panel Between Floor and Bottom of Barrier on Right Side
- Modesty Panel Between Floor and Bottom of Barrier on Left Side With Ventilation Holes
- Large Driver Storage Compartment To Be Located Left of Driver, Behind Switch Panel, Lid to Have Built In Cup Holder

FLOOR and COVERING

- Black Smooth Koroseal In Driver's Area and Under Seats
- Heavy Duty Black Ribbed Rubber or Koroseal Covering in Aisle with Smooth Flooring under Passenger Seats – Both Ribbed Flooring and Smooth Flooring forming a (1) One Piece Flooring Front to Back of School Bus
- Step Material to be 14 Gauge Sheet Metal, with Pebbles Stamped into Step Sheet Metal - Entire Assembly is sprayed with Proflex (or similar) Coating Material
- White Safety Edoe for All Entrance Steps
- 5/8" Marine Grade Plywood sub floor screwed down into
- the bus floor - NO NAILS
- Fuel Tank Sender Inspection Plate: For ease of service, an inspection plate shall be mounted over the fuel tank in the floor of the bus body.
- Sound Proofing in Driver Floor Area and Ceiling

HEATERS and DEFROSTERS

- Two 6.5" Defrost Fans, One Center, One Left of Driver
- 90,000 BTU Drivers Heater
- Washable Air Filter to be Furnished for Drivers Heater
- Drivers Heater Deflection Shield
- 50,000 BTU Right Front Heater
- Washable Air Filter to be Furnished for Stepwell Heater
- 50,000 BTU Midship - Mounted Under Passenger Seat
- 84,500 BTU Rear Heater - Mounted under Passenger Seat
- Washable Air Filter to be Furnished for Rear Heater
- Auxiliary Heater/Water Booster Pump Under the Hood
- All Heater Hoses to have Constant Torque Hose Clamps
- Two (2) Quarter Turn Brass Heater Cut-Off-Valves, With Butterfly Type Handle under the Hood or Heater Cut Off Valve Gate $\frac{3}{4}$ " In Drivers Area
- Driver Switch Panel to have Switches to Control for the Heat Temperature, Air Flow Direction, and Fresh Air and/or Recirculated Air
- Defroster Channel to be Full Width from Side to Side and
- Include Outlet Under Driver's Window

LIGHTING

- Double Row of Dome Lights Mounted Over Window Sections Located In the Wiring Access Panels Above the Side Windows Recessed -Stagger Mounted - LED
- Drivers Dome Light to Be Mounted In the Ceiling of the
- Driver's area with Separate Control Recessed - LED
- Stepwell Light Wired for automatic Operation with Entrance Door Control - LED
- Two (2) 7" Combination Brake and Tail Lights - LED
- Two (2) 7" Clear Back Up Lights - LED
- Two (2) Combination Brake and Tail Lights - LED
- 7" Amber Turn Signals On Both Front and Rear - LED
- Recessed Mounted Clearance Lights In Front and Rear Headers - LED
- ALL 8 Way Lighting Front and Rear to be -LED
- 8 Way Light System to be Wired Directly to the Chassis Multi-Plex System
- 8 Way Warning Light System To Be Activated By Steering Wheel Mounted Controls, Allowing Driver To Keep Hands On Steering Wheel & Eyes On The Road with illuminated Switch
- Hoods Over 8 Ways
- Pre-Check Switch Enabling One Person To Complete A Check of All Exterior Lights
- Low Profile Strobe Light Single Flashing-LED
- Armored Turn Indicators Mounted on Each Side of Body-LED
- Armored - Marker Lights As Per Federal and State Requirements - LED
- 12 Volt Outlet In Drivers Area
- Front Specialty Air Operation Reflective Stop Arm With Lights To Operate From Opening Of Entrance Door - LED
- Rear Specialty Air Operation Reflective Stop Arm With Lights To Operate From Opening Of Entrance Door- LED
- Crossing Gate Interrupt Switch -Air Operated Xing Gate
- AM/FM/USB Stereo Radio System, included Public Address System with 8 Speakers and Antenna
- Exterior Electrical Access Panel Door To Have Lock
- WIRING VIDEO SYSTEM, Power Guard Connection Only, Connection in Flasher Plate Area with 20 AMP Fuse Protection
- WIRING TWO WAY RADIO, Power and Ground Connection Only, Connection in Flasher Plate Area with 20 AMP Protection
- License plate light - LED
- Rear Door Dome Light on separate switch - One Light on right Side, One light on Left Side

MIRRORS

- 10" x 30" Interior Mirror
- 6" x 30" Sun Visor Plastic Type
- 6" x 30" Sun Visor Left Side Above Drivers Window

- Left Side Mirror To Be Suspended Mount Such that it is Visible Through the Driver's Side Window and Allows Clear Vision Below to Pedestrian Area
- Mirror Lite HD Heated Mirrors with Stainless Hardware
- All Heated Wiring to Run Through Cross View Mirror Frames
- Cross View Mirrors - Large 4" x 7" Metal Backing Plate installed on the Inside of the Hood to Help Prevent the Hood from Cracking where Mounting Hardware is attached. Brackets to be Attached with Lock Nuts
- Rearview Mirrors To Be Heated and Remote Controlled from The Driver Area

PAINT, LETTERING and REFLECTORS

- Exterior Painted National School Bus Yellow and Black Trim
- Roof To Be Painted Winter White
- 3M "Fluorescent" Diamond Grade Highly Reflective Tape Around the Perimeter Of All Kick Out Windows and Roof Hatches
- 3M "Fluorescent" Diamond Grade Highly Reflective Tape Around the Perimeter Of the Rear Emergency Door
- 3M "Fluorescent" Diamond Grade Highly Reflective Tape Around the Perimeter Of the Rear End
- All Amber and Red Reflectors On The Front, Side and Rear to be 3M "Fluorescent" Highly Reflective Tape- Screw On Reflectors - "NOT ACCEPTABLE"
- Use of Lower Grade 3M Tape Products Will Not Be Accepted
- Undercoating: Two - stage process to include complete undercoating of the bus body prior to mounting the body on the chassis for complete body coverage. After body mounting a second undercoat shall be applied for maximum corrosion and rust protection.
- Interior Paint to be Spring White Urethane

MISCELLANEOUS REQUIREMENTS

- Front Mud Flaps
- Rear Mud Flaps are Rubber
- Wheel Pocket Cover - Plastic ABS
- Fenderettes - Rear Fender is to be Rubber
- All Customer Required Lettering
- All State of Missouri Required Lettering
- Missouri State Inspection Completed before Delivery
- Seen Camera System TL4-FD4 With Camera Heads Mounted in the Front Bulk Head 3.6mm lens, Rear Bulk Head Centered aimed to the center of the bus 3.6mm lens, one Over the Driver aimed at Stepwell 2.9mm lens, and the final camera in the middle aimed at the back of the bus 3.6mm lens.

WARRANTIES:

- Five (5) year, unlimited-mile engine warranty
- Seven (7) year, unlimited-mile transmission warranty
- Three (3) year, 50,000-mile body and chassis warranty with option for purchasing up to a five (5) year, 100,000-mile body and chassis warranty
- 60-month unlimited towing for warrantable items
- Please provide additional warranty options with cost associated

Instructions to Bidders

- Please provide an outlined response to each of the above-listed specifications with variations designated.
- Please provide all additional specifications regarding your bid response.
- Do not include Federal Excise Tax as Logan-Rogersville R-VIII Schools is exempt from tax.
- Bids shall be submitted either hard copy or electronically to Assistant Superintendent, Mr. Jason O'Neal, by no later than 10:00 a.m. on Monday, April 15, 2019:
 - Mail/submit Hard Copy to the Logan-Rogersville Schools District Office: 100 E. Front Street, Rogersville, MO 65742. Label package: "BUS BID"
 - Email Electronic Copy to loganrogersvillesealedbids@gmail.com Subject: "BUS BID"