

**APPENDIX D-4**  
**Beneficiary Eligible Mitigation Action Certification**

## BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

Beneficiary State of Oklahoma

Lead Agency Authorized to Act on Behalf of the Beneficiary Oklahoma Department of Environmental Quality  
*(Any authorized person with delegation of such authority to direct the Trustee delivered to the Trustee pursuant to a Delegation of Authority and Certificate of Incumbency)*

<b>Action Title:</b>	Oklahoma Alternative Fuel School Bus Program FY19
<b>Beneficiary's Project ID:</b>	OK-AFSB-2
<b>Funding Request No.</b>	<i>(sequential)</i> 7
<b>Request Type: (select one or more)</b>	<input type="checkbox"/> Reimbursement <span style="float: right;"><input checked="" type="checkbox"/> Advance</span> <input type="checkbox"/> Other (specify): _____
<b>Payment to be made to: (select one or more)</b>	<input checked="" type="checkbox"/> Beneficiary <input type="checkbox"/> Other (specify): _____
<b>Funding Request &amp; Direction (Attachment A)</b>	<input type="checkbox"/> Attached to this Certification <input checked="" type="checkbox"/> To be Provided Separately

### SUMMARY

<b>Eligible Mitigation Action</b>	<input checked="" type="checkbox"/> Appendix D-2 item (specify): <u>Section 2: Class 4-8 School Bus, Shuttle Bus, or Transit Bus (Eligible Buses)</u>
<b>Action Type</b>	<input type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal):
<b>Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):</b> Pages 2-3 of the Oklahoma BMP discuss the use of VW Trust funds for the Alternative Fuel School Bus Program.	
<b>Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):</b> This project could remove from service a maximum estimate of 22 diesel school buses from school districts across the state. The engine model years on these project buses will be 2009 and older. They would be replaced with 22 new alternative fuel buses. These projects will reduce air pollution exposure among children across the state, which is impactful because children constitute a sensitive population. Expected lifetime emissions benefits, according to the Diesel Emissions Quantifier, are 2.76 short tons of NOx, 0.19 short tons of PM2.5, 0.55 short tons of HC, 1.30 short tons of CO, and 336.6 short tons of CO2.	
<b>Estimate of Anticipated NOx Reductions (5.2.3):</b> Expected lifetime NOx reductions from this project are 2.76 short tons, according to the Diesel Emissions Quantifier.	
<b>Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):</b> Oklahoma Department of Environmental Quality	
<b>Describe how the Beneficiary will make documentation publicly available (5.2.7.2).</b> Page 14 of the Oklahoma BMP describes how DEQ will make information pertinent to the VW Trust publicly available. In addition, Oklahoma DEQ maintains a website which includes webpages containing information in regard to Oklahoma VW programs. The Oklahoma VW website is at: <a href="https://www.deq.ok.gov/air-quality-division/volkswagen-settlement/">https://www.deq.ok.gov/air-quality-division/volkswagen-settlement/</a> . Oklahoma DEQ also operates a mailing list for the VW programs.	
<b>Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8).</b> Per page 5 of the Grant Solicitation to be issued by DEQ, each project partner of a government owned vehicle will be required to pay at least 50% of the cost of the new alternative fuel bus for any fuel type. Project partners of non-government owned vehicles will be required to pay at least 75% of the cost of natural gas (CNG, LNG), and propane (LPG) vehicles. For all-electric, project partners of non-government owned vehicles will be required to pay at least 50% of the cost, including costs related to charging infrastructure.	
<b>Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9).</b> Oklahoma DEQ sent notice by USPS and email to the representatives from the U.S. Department of the Interior and the U.S. Department of Agriculture listed in subparagraph 4.2.8 of the State Trust Agreement on February 15, 2018.	

**If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).**

Impact on communities that have historically borne a disproportionate share of the adverse impacts of NOx emissions was one of the metrics by which all project applications for this program were ranked and awarded. Projects located in counties with historically high ozone concentrations will receive priority over projects which are not. Areas that will be focused on in the scoring process are: potential ozone nonattainment counties, counties with the highest mobile-source NOx emission ranking for Oklahoma, counties containing greater than 1% of the State's registered Volkswagen Settlement Subject Vehicles, and projects located along a major interstate.

**ATTACHMENTS**  
**(CHECK BOX IF ATTACHED)**

- Attachment A Funding Request and Direction.
- Attachment B Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).
- Attachment C Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).
- Attachment D Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]
- Attachment E DERA Option (5.2.12). [Attach only if using DERA option.]
- Attachment F Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.13). [Attach only if this is a joint application involving multiple beneficiaries.]

**CERTIFICATIONS**

By submitting this application, the Lead Agency makes the following certifications:

1. This application is submitted on behalf of Beneficiary State of Oklahoma, and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.
2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attachment A to this Form.
3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.
4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)
5. Beneficiary will maintain and make publicly available all documentation submitted in

**support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)**

**DATED:** Sept. 4, 2019

John Terrill, Division Director  
  
\_\_\_\_\_  
[NAME]  
[TITLE]

Oklahoma Department of Environmental Quality  
\_\_\_\_\_  
[LEAD AGENCY]

for  
State of Oklahoma  
\_\_\_\_\_  
[BENEFICIARY]

**ATTACHMENT B**  
**PROJECT SCHEDULE AND MILESTONES**

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**PROJECT MANAGEMENT PLAN**  
**PROJECT SCHEDULE AND MILESTONES:**

<b>Action</b>	<b>Start Date</b>	<b>End Date</b>
<i>Subgrant Program Development</i>	July 15, 2019	October 15, 2019
<i>Solicitation of Project Partners</i>	October 16, 2019	December 6, 2019
<i>Announce Funding &amp; Accept Applications</i>	October 16, 2019	December 6, 2019
<i>Make Subawards</i>	December 15, 2019	January 15, 2020
<i>Complete MOAs for Awardees</i>	January 15, 2020	March 30, 2020
<i>Project Implementation</i>	March 30, 2020	September 2022
<i>Procurement and Installation of Equipment</i>	March 30, 2020	September 2022
<i>Monitoring and Oversight of Project</i>	March 30, 2020	September 2022
<i>Semiannual Reporting from Recipient to DEQ</i>	March 30, 2020	September 2022
<i>Project Completion Date</i>	September 1, 2022	September 1, 2022

**PROJECT BUDGET:**

<b>Project Description</b>	<b>Estimated Project Sub-Total</b>	<b>Amount Funded by Trust</b>	<b>Amount Funded by Project Partner*</b>	
17 Type C propane (LPG) powered school buses with a capacity between 48-77 passengers priced at an average of \$90,000 for each bus	\$2,404,483.04	\$1,202,241.52	\$1,202,241.52	
3 Type C & D natural gas (CNG) powered school buses with a capacity between 40-84 passengers priced at an average of \$130,000 for each bus	\$1,264,483.04	\$632,241.52	\$632,241.52	
2 Type C & D all-electric powered school buses with a capacity between 40-84 passengers priced at an average of \$330,000 for each bus	\$1,534,483.04	\$767,241.52	\$767,241.52	
	<b>Administrative</b>	\$65,000	\$65,000	\$0
	<b>Project Totals</b>	<b>\$5,268,449.12</b>	<b>\$2,666,724.56</b>	<b>\$2,601,724.56</b>
	<b>Percentage</b>	100%	50.62%	49.38%

\*Although private entities are allowed to match for some projects at 25%, we have not seen much interest in this demographic and expect all project partners to match at 50%.

**PROJECTED TRUST ALLOCATIONS**

	<b>2019</b>
1. Anticipated Project Funding Request to be paid through the Trust	\$2,666,724.56
2. Anticipated Cost Share	\$2,601,724.56
3. Anticipated Total Project Funding (line 1 plus line 2)	\$5,268,449.56
4. Cumulative Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation*	\$5,442,441.17
5. Cumulative Unused Trustee Payments Returned to Trust from Previous Funding Requests	\$4,429.78
6. Net Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation (line 4 minus Line 5)	\$5,438,011.39
7. Current Beneficiary Project Funding to be paid through the Trust (line 1)	\$2,666,724.56
8. Total Funding Allocated to Beneficiary, inclusive of Current Action by Year (line 6 plus line 7)	\$8,104,735.95
9. Initial Beneficiary Share of Trust Funds	\$20,922,485.12
10. Beneficiary Share of Estimated Funds Remaining in Trust (line 9 minus line 6)	\$15,484,473.73
11. Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (line 10 minus line 7)	\$12,817,749.17

*\* This line item includes the sum of cost requests from the following submitted D-4 funding requests, regardless of whether or not funds have been received by DEQ: Funding Requests #1, #2, #3, #4, #5, and #6.*

## ATTACHMENT C

### DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION IMPLEMENTATION

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Per Subparagraph 5.2.11 of the Environmental Trust Agreement for State Beneficiaries (“Trust Agreement”), Beneficiaries must set forth a “detailed plan for reporting on Eligible Mitigation Action implementation” to be included in an Appendix D-4 funding request. The Oklahoma Department of Environmental Quality (DEQ) plans to report per 5.3 of the Trust Agreement and Sections H and I of DEQ’s DERA Cooperative Agreement with EPA.

DEQ is committed to meeting reporting requirements consistent with Subparagraph 5.3 of the Trust Agreement, as set forth below:

*For each Eligible Mitigation Action, no later than six months after receiving its first disbursement of Trust Assets, and thereafter no later than January 30 (for the preceding six-month period of July 1 to December 31) and July 30 (for the preceding six-month period of January 1 to June 30) of each year, each Beneficiary shall submit to the Trustee a semiannual report describing the progress implementing each Eligible Mitigation Action during the six-month period leading up to the reporting date (including a summary of all costs expended on the Eligible Mitigation Action through the reporting date). Such reports shall include a complete description of the status (including actual or projected termination date), development, implementation, and any modification of each approved Eligible Mitigation Action. Beneficiaries may group multiple Eligible Mitigation Actions and multiple sub-beneficiaries into a single report. These reports shall be signed by an official with the authority to submit the report for the Beneficiary and must contain an attestation that the information is true and correct and that the submission is made under penalty of perjury. To the extent a Beneficiary avails itself of the DERA Option described in Appendix D-2, that Beneficiary may submit its DERA Quarterly Programmatic Reports in satisfaction of its obligations under 15 of 43 this Paragraph as to those Eligible Mitigation Actions funded through the DERA Option. The Trustee shall post each semiannual report on the State Trust’s public-facing website upon receipt.*



**ATTACHMENT D**

**Detailed cost estimates from potential vendors for each proposed expenditure exceeding \$25,000.**

DEQ has compiled 32 total price quotes reflecting the type and size of alternatively fueled vehicle preferred by applicants of the 2018 Alternative Fuel School Bus program as well as potentially purchased vehicles. Out of these quotes, 22 represent propane/LPG and seven quotes represent natural gas/CNG. During this first round, applicants submitted estimations of pricing or copies of price quotes for potentially purchased vehicles. The cost estimates for these alternatively fueled school bus projects ranged from \$77,707 to \$106,137 for new propane/LPG school buses and \$107,880 to \$140,176 for new natural gas/CNG school buses.

Since no applicants included estimates for all-electric school buses, the remaining three quotes for these vehicles were pulled from vendor research. Price quote estimates for all-electric vehicles represent potential interest for size and type of school bus in the application period. In the table below are averages of price quotes for natural gas/CNG, propane/LPG, and all-electric school buses of various passenger capacities and bus types.

	Average Cost for School Bus by Fuel Type		
<b>Passenger Size</b>	<b>Natural Gas/CNG*</b>	<b>Propane/LPG*</b>	<b>All-Electric</b>
28 passenger =	-	-	\$255,000.00
40/47 passenger =	\$139,833.00	-	-
48 passenger =	-	\$103,951.00	-
53 passenger =	-	\$87,728.60	-
65/66 passenger =	-	\$90,885.25	-
71 passenger =	\$115,832.00	\$86,861.89	\$330,000.00
77 passenger =	\$125,402.67	\$83,955.00	-
84 passenger =	\$140,176.00	-	\$350,000.00

	Average Cost for School Bus by Fuel Type		
<b>Bus Type</b>	<b>Natural Gas/CNG*</b>	<b>Propane/LPG*</b>	<b>All-Electric</b>
A	-	-	\$255,000.00
B	-	-	-
C	\$125,653.50	\$89,681.09	\$330,000.00
D	\$140,176.00	-	\$350,000.00

*\*CNG & LPG averages have been compiled from price quotes submitted by applicants of the FY2018 Alternative Fuel School Bus program.*

**Example Quote #1**  
**(Propane Bus)**



2500 South Meridian • Oklahoma City, OK 73108-1744  
 Office: 405-681-6691 • Toll Free: 800-965-7677 • Fax: 405-681-6693

DISTRIBUTORS OF **BLUE BIRD** SCHOOL BUSES

**Corporate Office**

Ryan Ross, General Manager

**Western Oklahoma Bus Sales**

Randy Hicks, Sales Representative

**BID TO:** Anadarko Public Schools  
**ADDRESS:** 1400 S. Mission Ave.  
**CITY/STATE/ZIP:** Anadarko, Oklahoma 73005

**CONTACT:** Mr. Jerry McCormick, Supt.  
**TELEPHONE:** 405-247-6605  
**BID DUE DATE:** Immediate

**GENERAL DESCRIPTION: State Bid Contract SW110**

**2020 Model Year, Blue Bird, BBCV3303 Conventional (Type C) School Bus**

**71 Passenger Capacity – Propane Powered**

**SPECIFICATIONS:**

**AIR CONDITIONER:** 137,000 Total BTU, FRT & Rear Inwall Evaporators (80K per), Driver's Dash A/C (27.5K) – **Roof Mounted Condensers**  
*Note: Air-Conditioner & Blue Bird (OEM) Installed and warranted*

<b>ALTERNATOR:</b>	280 amp, Leece Neville, 12 volt
<b>AXLES, SPRINGS &amp; SHOCK ABSORBERS:</b>	12,000# rating, oil lubed bearings
Front axle:	8,500# capacity, "Softek" Parabolic tapered leaf
Front springs:	21,000# capacity, 5.29:1 ratio, oil lubed bearings
Rear axle:	21,000# capacity, 2-Stage
Rear springs:	Direct acting, front and rear
Shocks absorbers:	112DB Safety alarm - operates while in reverse gear
<b>BACKUP ALARM:</b>	Three (3), 12 volt, Group 31, 2100 cca rating, enclosed with sliding tray & locking latch
<b>BATTERIES:</b>	Exterior under driver window, with key lock
<b>BODY ELECTRIC PANEL:</b>	"Monitor Quadraulic," Hydraulic System w/ Anti-lock (ABS)
<b>BRAKE SYSTEM:</b>	Disc type front & rear, 70MM dual system (4) pistons per caliper
	Dust Shields, Brakes, front and rear
	9" diameter x 3" wide, internal expanding, transmission mounted w/ interlock
<b>BUMPERS:</b>	Front-15" x 3/16", steel – Rear -12" x 3/16", steel
<b>CERTIFICATION:</b>	Colorado Rack & Kentucky Pole Test Certified
	Altoona Tested
<b>CHILD REMINDER:</b>	Doran, Sleeping Child Check System, Warning Light Activated
<b>CIRCUIT PROTECTION:</b>	Manual resetting circuit breakers on body circuits
<b>COWL STEPS &amp; GRIP HANDLES:</b>	Mounted LH & RH at windshield
<b>DOORS:</b>	<b>Double Outward type with Manual Door Control</b>
<b>Entrance:</b>	Entrance door laminated glass, tinted 70% light transmittal
	3-step step-well with black rubber, ribbed step treads
<b>Exit:</b>	Rear center mounted with upper/lower glass, tinted 30% light transmittal
	Retainer to hold door open
Header Pad: (Entrance & Rear Exit Door):	Black self-slitting foam
Vandal Locks:	Entrance door equipped with key lock
	Rear door equipped with sliding bolt interlock
<b>EMERGENCY EQUIPMENT:</b>	Per Oklahoma Requirements
	5lb Fire Extinguisher, First Aid Kit, Warning Devices, Body Fluid Cleanup Kit & Seatbelt Cutter

Roof Hatches:  
Push-out windows:

Two (2) Safe Fleet combination escape hatch/vents  
Vertical Hinged, two (2) per side – four (4) per body

<b>ENGINE:</b>	<b>Ford® 6.8L V-10 Engine, Propane Powered (OBD,2018)</b>	
Number of Valves/Cylinders:	Three (3) Valve	
Cylinder Block Material / Cylinder Head Material:	Cast Iron / Aluminum	
Oil Capacity / Type:	7.9L quarts / 5W-30	
Horsepower rating:	320hp @ 3000rpm	
Torque rating:	460 lb-ft @ 3000rpm	
Governor, Road Speed:	75MPH	
<b>ENGINE COOLING SYSTEM:</b>	De-aeration system with tank & sight glass -34 Degrees Fahrenheit	
<b>ENGINE EQUIPMENT:</b>	Engine warning system, low oil pressure/high water temperature <b>Cruise Control</b> Advanced Fuel System Filtration Liquid Propane Injection (LPI) Monoblock Fuel Rail System Fuel system quick connects Fuel Rail Pressure Control Automated one touch starting system Integrated Control System Dual electronically controlled fuel pumps <b>Firewall Insulation, Driver's Area</b>	
<b>ENGINE NOISE REDUCTION:</b>	First two (2) ceiling panels (driver & 1st section): acoustic headlining, Solid aft to Rear <b>Primary Ford:</b> Piping Catalytic Converter, Muffler and mounting hardware Tailpipe exits through rear bumper	
<b>EXHAUST:</b>	Heavy Duty Black Rubber with aluminum aisle trim	
<b>FLOOR COVERING:</b>	5/8" plywood subflooring over steel floor, affixed with screws	
<b>FUEL TANK:</b>	<b>88 US-Gal Total Capacity, mounted between frame rails</b> Usable Propane Fuel Capacity – 93 US-GAL Floor mounted inspection plate, locking fuel tank access door	
<b>GAUGES:</b>	Speedometer, trip-odometer, tachometer, seven-digit odometer, clock, voltmeter Oil pressurized, coolant temperature, transmission temperature, fuel gauge	
<b>GLOVE BOX / CONSOLE:</b>	Glove box - below windshield, right side w/ latch & Console mounted armrest	
<b>HEADROOM:</b>	Extra height headroom, 77 inches (6'5") at center aisle	
<b>HEATERS:</b>	Left front heater & defroster:	90,000/btu
	Right front heater & defroster:	50,000/btu
	Rear under seat heater:	80,000/btu
	Heater water booster pump:	12 volt, on/off switch
	<b>Dual defroster fans:</b>	Mounted upper center & upper left, 2-speed switch Fiberglass tilting hood & fenders Dual electric horns
<b>HOOD &amp; FENDERS:</b>	Fiberglass/mineral wool, full body insulated	
<b>HORNS:</b>	Dual electric horns	
<b>INSULATION:</b>	Fiberglass/mineral wool, full body insulated	
<b>LETTERING:</b>	Name of school district on bellline <b>GVWR, Capacity &amp; Height - Exterior</b>	
<b>LIGHTS:</b>	Backup lights:	Two (2) clear lens, 4" -rear, LED
	Clearance lights:	Two (2) amber lens, grommet mount -front / Two (2) red lens, grommet mount -rear, LED
	Identification lights:	Three (3) amber lens, grommet mount -front / Three (3) red lens, grommet mount -rear, LED
	Directional lights:	Two (2) amber lens -front, fender mounted / Two (2) amber lens, 7" -rear, LED
	Directional lights, side:	One (1) amber lens, per side, LED
	Dome lights:	Two rows, mounted above passenger seats, 15-candle power Single dome light for driver's area, separate switch Doran 16-light monitor mounted in driver area <b>Exterior Light Test w/ Switch</b> Interior, operates with door control, incandescent Two (2) red lens, 4" & Two (2) red lens, 7" -rear, LED Rear Roof Top Condenser Mounted, wired to switch w/ Guard <b>Eight (8) light system, non-sequential, LED with hoods</b>
<b>MIRRORS:</b>	Exterior rearview:	ROSCO, Open View (EE) Split Mirror System, 7"x10" Flat Mirror & 7"x 10" Convex Mirror Rearview exterior mirrors have black powder coated steel brackets ROSCO, Eye-Max-LP Asymmetric 3haped Mirrors Bell-Mount brackets for Cross-view Mirrors <b>All exterior mirrors are electrically heated, Rearview (exterior) are heated &amp; remote controlled</b>
	Exterior cross-view:	8"x30" flat mirror, padded edge
	Interior rearview:	Black rubber mud flaps, front and rear Black rubber fenders at rear wheel-housing opening National School Bus Yellow with black trim White <b>Two (2) year discoloration &amp; Five (5) year adhesion</b>
<b>MUD FLAPS &amp; FENDERS:</b>	Side, 20-gauge Fluted, 19/3/4" Skirts	
<b>PAINT:</b>	Exterior:	White
	Exterior roof:	White
	Warranty (Paint):	<b>Two (2) year discoloration &amp; Five (5) year adhesion</b>
<b>PANELS:</b>	Exterior:	Roof sheets, constructed of 20-gauge galvanized steel (window header to window header)

POWER SOCKET:	Interior	Ceiling Panels: 22-gauge steel, double-hemmed w/ rivet installation (No screws)
RADIO:		12 volt, mounted in switch panel, for cell phone, etc.
REFLECTIVE TAPE:		AM-FM-MP3-USB-PA Radio with eight (8) interior speakers 3M™ reflective vinyl, yellow
RUB RAILS:		"SCHOOL BUS" in 8" black letters on 3M™ yellow reflective background, Front and Rear
SEATS:	Passenger:	Side & rear marker strips - marker strip surrounds each emergency exit
	Upholstery:	Four (4) double-ribbed, 16-gauge steel exterior body rub rails, <b>Painted black</b>
	Driver:	DOT approved High Back School Bus Bench Seats Grey Fire Block Upholstery
STEERING:		National Hi-back seat w/ mechanical pedestal & RH armrest
STOPARM:		Charcoal Cloth Upholstery, Orange shoulder harness & lap belt restraint
SUNVISOR:		Hydraulic power, tilt & telescoping wheel, 50 degree wheel cut
SWITCHES:		18" octagon sign w/flashing red lights, electric, LED
TIRES & RIMS:	Front:	6.5"X30". Green plexi-glass, padded edge
	Rear:	Rocker type switches w/ latching noise suppression switch
	Rims:	Cooper, 11R22.5, Tubeless Radial, LRH, Highway tread
TOW HOOKS:		Cooper, 11R22.5, Tubeless Radial, LRH, Traction tread
TRANSMISSION:		22.5 x 8.25, 10-Stub, Hub Piloted, Disc Rims
		Dual hooks, front and rear, chassis frame mounted
		Ford®, 6R140 - 6 Speed Automatic, Calibrated for "PowerShift" (Performance)
		High efficiency fluid filter and thermostatically controlled cooler circuit
UNDERCOATING:		Premium Low viscosity transmission fluid
WINDOWS:	Side, split sash:	Underneath body fully undercoated
	Rear, fixed panel:	Tinted to allow 30% light transmittal
	Entrance Door-& Driver Window:	Tinted to allow 30% light transmittal
WINDSHIELD:		Tinted to allow 70% light transmittal
WINDSHIELD WIPERS:		Two (2) piece curved, shaded safety plate
WIRING:	Chassis:	Electric, intermittent speed, w/washers
	Body:	Multiplex chassis wiring w/ LED readout on module
WHEELBASE:		Colored and continuously number coded in molding on top of side windows
WARRANTY:	Blue Bird Body & Chassis:	272" wheelbase
	Ford® / ROUSH® Clean Tech: Powertrain / Fuel System:	Five (5) year/100,000 mile Limited Warranty
		Five (5) year/Unlimited miles Warranty

This Blue Bird School Bus meets the State of Oklahoma and Federal School Bus requirements, **effective for date of manufacture.**

**SW110 State Bid Contract:**  
Supplier ID: 0000377141

H.1.7 – Type C, 66 to 71 Passengers -----	<u>\$77,522.00, per bus</u>
H.8.1.2 - Body: -----	\$710.00, additional, per bus
H.8.1.4 – Air Conditioning Systems -----	<u>\$7,800.00, additional, per bus</u>
H.9.1.2 - Alternative Engines (Propane) -----	<u>\$4,750.00, additional, per bus</u>
<b>TOTAL UNIT COST, FOB: School</b> -----	<b><u>\$90,782.00, per unit</u></b>

DELIVERY TIME: ----- 120 – 150 Days Upon PO

Ryan Ross  
ROSS TRANSPORTATION, Inc.

BID ACCEPTED BY SCHOOL DISTRICT OFFICIAL

1/2/2018  
Date of Bid

\_\_\_\_\_  
Date of Acceptance

**Example Quote #2**  
**(CNG Bus)**



# Customer Quotation

**Prepared For:**  
PIEDMONT PUBLIC SCHOOL  
713 PIEDMONT RD N  
PIEDMONT, OK 73078

**Prepared By :**  
Justin Roles  
Midwest Bus Sales  
C:405-403-2451

**Quote Number:**  
350275

**Quote Date:**  
12/6/2018

**Customer Order No:**  
Piedmont77CNG

## Model Profile: Saf-T-Liner C2 341TS

<b>Product Type:</b>	School Transportation
<b>Year:</b>	2020
<b>Chassis Model:</b>	B2 106
<b>Chassis MFG:</b>	FLNER
<b>GVWR:</b>	GVWR
<b>Passenger Capacity:</b>	77
<b>Headroom:</b>	78
<b>Wheelbase:</b>	279
<b>Brake Type:</b>	HYDRAULIC
<b>Engine Type:</b>	CUMMINS 6.7N CNG, 6 Cyl, 220 HP, 2600 RPM
<b>Fuel Type:</b>	CNG
<b>Fuel Tank Capacity:</b>	4
<b>Transmission Type:</b>	AUTOMATIC
<b>Axle, Front:</b>	10000-lb Capacity
<b>Axle, Rear:</b>	23000-lb Capacity
<b>Tires, Front:</b>	RADIAL FRONT TIRE, MICHELIN XZE2, 11R22.5 16 PLY
<b>Tires, Rear:</b>	MICHELIN X MULTI D 11R22.5 16 PLY REAR TIRES
<b>Suspension Front:</b>	[FRONT SUSPENSION]
<b>Suspension Rear :</b>	[REAR SUSPENSION]

**Total for 1 complete unit(s):** **\$ 127,212.00**

**Delivery: Approximatley 150-180 days from P.O. pending CNG Equipment.**

**Includes the Following Equipment:**

### BODY

#### ACCESSORIES

- 1 LOC-1ST.SEAT DRVRSIDE REFL TRIANGLE
- 1 LOCKS-KEYED ALIKE #CH545

#### CERTIFICATION/SAFETY

- 1 REFLECTTAPE-RR END YEL 2" 3M
- 1 REFLECTTAPE-FRT END YEL
- 1 FIRE EXTINGUISHER-5 3A-40BC
- 1 REFLECTORS-AMBER (4) MID/FRONT 3"
- 1 REFLECTORS-RED (4) RR/RR SI 3"
- 1 HATCH-RF ESC MODEL 1100 ENG(2)
- 1 HANDLES-W/S SERVICE, BLACK
- 1 KIT,FIRST AID 24 UNIT OKLAHOMA
- 1 KIT,BODY FLUID CLEAN UP OKLAHOMA
- 1 LABEL-PASS ADVISOR INSTRUCTION
- 1 LOCATION-VESTIBULE FLOOR PLATE LEFT 5LB FE
- 1 CUTTER-SEAT BELT W/HAND GRIP
- 1 TRIANGLES-REFL. 3 W/BOX
- 1 OPEN VIEW - ES, HEATED, REMOTE
- 1 MIRROR-B EXTERIOR CROSSVIEW HEATED BLACK BRACKET
- 1 SIGN-STOP, ELEC FRT #SC1-6100-311-E21-01
- 1 MIRROR-INTERIOR 6"X30" WITH RUBBER EDGE
- 1 LABEL(S)-SPECIAL DATA, IL
- 1 LABEL-VEHICLE CERTIFICATION

#### DOORS

- 1 STEP-RS ALUM.ENT.DR W/HTR 8.75"RISER

- 1 HANDLE-EXTERIOR REAR DOOR WITH RECESS
- 1 VANDALOCK-REAR DOOR W/BOLT
- 1 DOOR-ENT AG2 TINT TEMP LOCK
- 1 PWR SYST.-AG2 ELECTRIC ENTRANCE DOOR
- 1 ELEC-AG2 ELECTRICAL OPERATED ENTRANCE DOOR
- 1 VANDALOCK-ALUM.ENT.DR.CYLINDER W/KEY
- 1 PULL-ENTRANCE DOOR, EXTERNAL ALUMINUM
- 1 SWITCH-PAD. ENT.DOOR ELEC. (3 POS.)
- 1 KEY-VANDALOCK REAR DOOR NONE
- 1 TRIM-ENTRANCE DOOR INTERIOR
- 1 PAD-DR HEADER, RR EMER 36"W
- 1 TRIM-STEPWELL HORIZONTAL WITH RIBBED NOSE
- 1 RAIL-ASSIST FRT ENT DR 39"YEL
- 1 CVR-RISER RS ENT DR-W/ HTR LOW

### **ELECTRICAL - BODY**

- 1 FAN-CIRC MID W/S HDR BLACK
- 1 ELEC-FAN MID W/S HDR
- 1 FAN-CIRC DRV'S WDO HDR BLACK
- 1 ELECTRICAL-FAN DRIVER'S WINDOW HEADER
- 1 RADIO-AM/FM DEA510 W/PAGE
- 1 OPER-AUTOMATIC FAST IDLE
- 1 ELEC-ZONAR STANDARD MONITORING
- 1 ELEC-PWR CELL PHONE OUTLET LS
- 1 OPER-DOOR ELEC ENT.& ING.3 POS.
- 1 OPERATION-DOOR REAR EMERGENCY WITH BUZZER/PILOT LAMPS
- 1 MONITOR-LPS WARN NONE
- 1 LAMPS-DOME OVER DRIVER
- 1 SWITCH-RKR DOME LPS FRT/RR
- 1 MODULE-PWR.DIST.ELEC.SYS.
- 1 SWITCH-ROCKER PANEL LAMPS DIMMER
- 1 LPS-INT RED IN CEILING OVER RR EMG DR
- 1 ELEC-LPS-INT RED O/H RR EMG DR
- 1 LAMP-EXTERIOR AND AFT OF ENT DOOR
- 1 ELEC-LPS EXT AFT OF ENT DOOR
- 1 OPER-STPWLL LPSW/PARKLPS&ENT DR.
- 1 LAMPS-STEPWELL WITHOUT HOOD (1)
- 1 LPS-STP/TAIL/DIR AMBER/REV LED
- 1 ELEC-LPS STOP/TAIL/TURN/REV
- 1 ADVISORY-PASSENGER BUZZER ACTIVATION, WITH SWITCH
- 1 LPS-PILOT VANDALOCK STATUS RED
- 1 ELEC-PWR, GND, NETWORK, BUZZ
- 1 LAMPS-PILOT BRAKE LIGHTS RED
- 1 LAMPS-PILOT REAR EMERGENCY DOOR RED
- 1 LAMPS-PILOT POST TRIP INSPECTION RED
- 1 LPS-SI DIR AMBER FRT. LED PIN
- 1 ELEC-LPS SI FRT DIRECTIONAL ONLY
- 1 LPS-WARNING LED (8)
- 1 OPER-LPS WARNING (8) PKG 2
- 1 OPERATION-LAMPS REVERSE WITH REAR EMERGENCY DOOR OPEN
- 1 LPS-ID AMB/RED LED
- 1 LPS-MKR ROOF FRT/RR LED PIN
- 1 LPS-MKR ROOF MID LED PIN
- 1 STROBE-2.25"H OVR RR AXLE
- 1 LPS- STOP/TAIL 4" FLS.MT L.E.D.
- 1 SWITCH-ROCKER FAN DEFROST WINDSHIELD
- 1 SWITCH-ROCKER NOISE SUPPRESSION ON/OFF
- 1 SWITCH-ROCKER STROBE LAMPS
- 1 LAMPS-PILOT WARNING LIGHTS RED
- 1 LAMPS-PILOT WARNING LIGHTS AMBER
- 1 OPERATION-LAMP STROBE, IGNITION & SWITCH ACTIVATED
- 1 ELEC-CABLE PRIM PWR & GND-CUSTOMER ACCESS
- 1 ELEC-HARN. LIQUID LINE SOL. KR 4
- 1 OPERATION-LAMPS SIDE DIRECT.ONLY
- 1 BLOCK-FUSE CUSTOMER ACCESS
- 1 ELEC-CONDENSER ROOF MOUNT



- 1 OPER-PRE-TRIP INSPECTION
- 1 ELEC-SEAT BELT PILOT LAMP
- 1 OPER-SEAT BELT PILOT LAMP
- 1 LAYOUT-ROCKER SWITCH STANDARD
- 1 CIRCUITRY-MULTIPLEX PRESENT
- 1 ELEC-FUEL INTLOCK, CNG RS/LS
- 1 ELEC-ELECTRIC STOP SIGN FRONT DEFENDER
- 1 SPEAKERS-INT. 30 WAT.(6) 341T
- 1 ELEC- (6) INT SPEAKERS 341T
- 1 SWITCH-RKR HTR BOOST PUMP
- 1 ELEC-HTR ENT DOOR STEPWELL
- 1 ELEC-HTR ENT DOOR STEPWELL
- 1 112DB BACKUP ALARM

## **EXTERIOR**

- 1 FLAPS-MUD, REAR 22.5"W
- 1 FLAPS-MUD, FRONT 16"W X 12"H
- 1 STEPS-EXT W/S SERVICE
- 1 FENDER-QUARTER 24" BATTERY BOX DOOR
- 1 BODY ADJ-FTL, CNG RS/LS CTR
- 1 REINFORCEMENT-FRAME 24" BATTERY DOOR AND A/C
- 1 CAP-ENTRANCE DOOR STANDARD
- 1 FLOOR-NON ADA
- 1 BUMPER-RR 2 BRACES NO EXH HOLE
- 1 CAP-FRONT ROOF W/WARN.LPS.
- 1 CAP-REAR ROOF W/WARN.LPS.
- 1 GUSSET-21"H LWR SIDE SHEET
- 1 SHEET-LWR, L MID 20G,21"
- 1 SHEET-LWR,L RR 20G,21"
- 1 SHEET-LWR,R MID 20G,21"
- 1 SHEET-LWR,R RR 20G,21"
- 1 DOOR-U/B L BATTERY 24"
- 1 DOOR-FUEL FILL RS/LS CNG
- 1 FENDERETTE-STL 21" SKIRT
- 1 LATCH-BATT DOOR NON-LOCKING
- 1 LATCH-FUEL FILL ACCESS (THUMB)
- 1 ROOF SHEETS-(2) HATCH-341T KR4
- 1 VENT-STATIC NONE
- 1 PILASTER - 341T, 900
- 1 RAIL-SNOW RAIL PRESENT
- 1 HARDWARE-MOUNTING CLIPS CNG
- 1 EXHAUST-LS TURNDWN, BELOW Bmpr
- 1 PIPING-VENT TUBE AT BODY CNG

## **HVAC**

- 1 AC-126K BTU-FREE BLOW BULKHEAD
- 1 AIR COND CONTROLS-THERMOSTATIC
- 1 CONDENSER-KR430 ROOF 30" 3FAN
- 1 EVAP - IW10 RR, IW4 FRONT, KR4
- 1 EVAP TRIM-INT(2) IW10, IW4
- 1 PLUMB.-AC COMP TM21 DUAL ISB KR4
- 1 AC CTL.BD.STD.TIE IN SGL.LP.KR4
- 1 PLUMBING-IW10, IW4, KR4
- 1 CONDENSER ALERT - ROOF
- 1 DOOR-ACC NONE
- 1 CABLE-THERMISTOR IW10/IW4
- 1 CABLE-EVAP 2 FRT BULKHEAD
- 1 HEATER-UNDERSEAT LEFT SIDE 84,000 BTU LOCATION 4
- 1 HTR-U/S LS 84,000 BTU LOC 11
- 1 HOSE-HTR SGL PLY W/ W/H POS 11
- 1 HEATER-ENTRANCE DOOR STEPWELL
- 1 CLAMPS-PLUMBING HEATER CONSTANT TORQUE
- 1 CLAMPS-UNDERSEAT HEATER CONSTANT TORQUE
- 1 CONN-HTR(1) CONSTANT TORQUE/SGL PLY
- 1 LOCATION-EVAP NO2 FRONT BULKHEAD
- 1 VALVE-SHUTOFF LS U/SEAT HTR WHOUSE
- 1 DUAL TM21 AC COMPRESSORS

- 1 HEATER, DEFROSTER, AND AIR COND
- 1 BODY PLUMBING-A/C COMPRESS, FRONT EVAPORATOR, ROOF CONDENSER
- 1 AUXILIARY DASH MOUNTED DUAL THERMOSTATIC A/C CONTROLS

### **INTERIOR**

- 1 VISOR-WINDSHIELD SUN 6"X30" TINTED
- 1 DOOR-STORAGE BOX W/O GLASS
- 1 TRIM-LOWER KR4 W/ REAR HEATER
- 1 REINF-RR END A/C EVAP. IW10
- 1 REINF-FRONT A/C EVAP.
- 1 LATCH-DR INT STOR OVR W/S NONE
- 1 LATCH-DR INT STOR OVR DRVRSHDR
- 1 BULKHEAD-RR END INT.W-A/C IW10
- 1 COVER-ACCESS RR END HARNESS NONE
- 1 COVER-TRIM DRVS HDR W/STORAGE
- 1 COVER-TRIM FRT END W/S HEADER A/C
- 1 H/L-RR LONG SMOOTH GRAY LPS-RED
- 1 STRIPS - AISLE, ALUMINUM 341T
- 1 FLR-BLK VINYL W/13" CTR AISLE 341T
- 1 FLR-BLK WHEELHOUSE AND HEATER
- 1 FLR-PLYWOOD 5/8" 341T
- 1 CVR-FUELSND INSP RS FRONT
- 1 LINING-SI INT.W/RS FRT FUEL
- 1 INSULATION-FRT BULKHEAD W/ACRSY 2"POLY
- 1 H/L-1ST WDO SEC ACOUS GRY 341T
- 1 INSULATION - URETHANE
- 1 PAD-SHDR RAIL, 42 OZ WOLF BLK

### **MISC**

- 1 SPECIAL DESIGNATION TO IDENTIFY A UNIT TO BE IN SALES SHOW
- 1 PDI IDENTIFIER-DEALER PERFORMED
- 1 MANUAL-DRVR'S/MAINT.ENGLISH
- 1 APPLICATION - SCHOOL
- 1 Adjustment-Body Equipment CNG
- 1 NO COOLANT HEATER - GAS/DIESEL
- 1 UP TO 15 DIESEL GALLON EQUIVALENT CHARGE
- 1 ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY #FT1001
- 1 70 MPH ROAD SPEED LIMIT
- 1 SAF-T-LINER C2

### **PAINT/LETTERING**

- 1 DECAL-UNITED AUTO WORKERS
- 1 LOGO-OMIT FRT & RR
- 1 LABEL-P/O WDO EMER EXIT 2" BLACK
- 1 LABEL-ENGLISH AG2.ELEC.ENT DR
- 4 REFLECTTAPE-P/O WDO YEL 3M
- 1 REFLECTTAPE-EMER DR RR YEL 3M
- 1 REFLECTTAPE-SI 2" ABV FLR YEL 3M
- 1 DECAL-BACKING ALARM
- 1 LABEL-RR DR EMERGENCY DOOR 2"HIGH
- 1 DECAL-ENTRANCE DOOR VANDALOCK ENGLISH
- 1 LOGO-SAF-T-LINER C2 CNG
- 1 LABEL-RR EMERGENCY DOOR INSTRUCTION
- 1 LABEL- DEF NONE
- 1 LABEL-MANUAL SHUT-OFF VALVE CNG
- 1 LABEL-CNG TANK INSPECTION LOG
- 1 HANDLE-INT RR DR RED
- 1 PAINT-EXT HNDLE(S) BLACK
- 1 DECAL-REFL FRT CAP "SCHOOL BUS" 3M
- 1 DECAL-REFL RR CAP "SCHOOL BUS" 3M
- 1 DECAL-"CNG ONLY" RS/LS
- 1 PAINT-EXTERIOR ROOF WHITE 341T
- 1 PAINT-EXT WINDOW AREA BLACK
- 1 PAINT-EXT GRD RAIL @ WINDOW BLACK
- 1 PAINT-EXT GRD RAIL @ SEAT BLACK
- 1 PAINT-EXT GRD RAIL @ FLOOR BLACK
- 1 PAINT-EXT GRD RAIL @ SKRT BLACK

- 1 PAINT-EXT BUMPER REAR BLACK
- 1 PAINT-BLACK TRIM-FRONT/REAR ROOF CAPS
- 1 PAINT-SOLID COLOR YELLOW
- 1 LABEL-CNG
- 1 DECAL-CNG FUEL SYSTEM
- 1 DECALS-WDO STRIPE 341T
- 1 HEADLINING-VESTIBULE ACOUSTIC, GRAY, DRIVER LAMP
- 1 PAINT:ONE SOLID COLOR,BASE/CLEARCOAT
- 1 CAB COLOR A:L5898EB SCHOOL BUS YELLOW ELITE BC
- 1 CAB COLOR B - NONE
- 1 CAB COLOR C: NONE
- 1 GRILLE: SILVER N3388H IMRON 5000

### **SEATS**

- 1 OFF-SET LS BARRIER 4"
- 1 2014 SEATING ALERT
- 1 SEAT BELT - DRIVERS SEAT
- 1 39" BARR-VERT,WALL MT 45"H RS 2009
- 1 39"8DEG BARR-REV. WALL-MT 45"H 2009
- 2 PROFORM EDO BLUE UPHOLSTERY-45"HIGH RECESSED BARRIER
- 1 BACK-NATIONAL DRV'S SEAT
- 1 ARMREST NATIONAL DRVR'S ST. RS
- 1 UPH DR.ST.WOLF BLK NATIONAL
- 1 PEDASTAL-DR ST MECH TYPE
- 1 COVER PEDASTAL NATIONAL NONE
- 1 RETAINER NATIONAL DR.ST.BELT NONE
- 1 POUCH-DR.ST.STORAGE NONE
- 1 KICKPLATE-MOD.PANEL RS 39" IW4
- 1 RISER-DRIVERS SEAT, NATIONAL
- 1 Haptics-Not Present
- 13 S3B 39"RS WALL MT RESTRAINING/NO BELT
- 1 S3B 26" LS WALL MT RESTRAINING/NO BELT
- 12 S3B 39"LS WALL MT RESTRAINING/NO BELT
- 26 FIREBLOCK BLUE UPHOLSTERY - S3B SEAT
- 26 S3B WALL MT HARDWARE-RESTRAINT

### **WINDOWS/GLASS**

- 1 GLASS-WINDSHIELD ONE PIECE WITH TINTED BAND
- 1 GLASS-RS FRT STAT TNT TEMP
- 1 GLASS-LS FRT STAT TNT TEMP
- 1 GLASS-REAR STAT TINTED TEMP
- 1 GLASS-RR SIDE STAT TINTED TEMP
- 1 FRAME-WDO SPLIT
- 16 FRAME-WDO SPLIT 30"W
- 2 FRAME-WDO SPLIT 40"W
- 2 FRAME-WDO P/O VERT TEMP TNT LS
- 2 WDO P/O VERT TEMP TNT RS
- 16 GLASS-WDO TINT TEMP 30"
- 2 GLASS-WDO TINT TEMP 40"
- 1 STOPS-WDO 12"
- 1 GLS-LWR RR DR TEMP TNT BONDED
- 1 GLS-UPR RR DR TEMP TNT BONDED
- 1 WDO-DRIVER'S TEMP TINT

### **OTHER**

- 1 LOGO-THOMAS DECALS YELLOW
- 1 ELEC-RF ESC HATCH POS 4
- 1 ELEC-RF ESC HATCH POS 9
- 1 ARM ASSEMBLY-WINDSHIELD WIPER (2)
- 1 ELECTRICAL-ROOF HATCH OR P/O WINDOW (DASH)
- 1 OPER-FAN W/S HDR
- 1 OPER-FAN DRV'S WDO HDR
- 1 OPER-ALARM BACKING W/REV.
- 1 OPER-RF HATCH BUZZER
- 1 OPERATION-A/C CONTROL-ANALOG THERMOSTATIC
- 1 LOCATION-VESTIBULE FLOOR PLATE CENTER 24 FAK
- 1 LOC-VEST.FLR.PLT.FWD. 10 BFC

- 1 AC DUCT-NOT PRESENT NO SIDE EVAP
- 1 EVAPORATOR QTY - NONE
- 1 ANTENNA - RADIO SWIVEL BASE
- 1 ELEC-ANTENNA RADIO COAXIAL
- 1 KIT-RADIO ANTENNA MOUNTING @ DRIVER'S HEADER
- 1 341T30\_N
- 1 TRIM-A POST
- 1 WHEELHOUSES-REAR L&R
- 1 STRINGER-ROOF 341T
- 1 FRONT END FRAME
- 1 FRT END FRAME MTG KIT
- 1 REAR END FRAME-28.68"DEEP
- 1 FLOOR-GALVALUME STEEL MID BODY
- 1 LOC-40' RAF SP 11TH 341T
- 1 RS TANK ALERT - NONE
- 1 DOOR ALERT - LS ENT NONE
- 1 TRIM-REAR DOOR
- 1 HINGES-REAR DOOR PIN TYPE
- 1 LATCH-SINGLE-POINT, REAR EMERGENCY DOOR
- 1 STOP-DOOR REAR EMERGENCY, 1-POS
- 1 OPERATION-VANDLOCK ENTRANCE/EMGENCY DOOR(S) WITH PILOT LAMPS
- 1 ELEC-SIDE EMERGENCY DOOR(S)
- 1 DOOR-LS ENT RS EXIT -NONE REQD
- 1 INT COLOR -RR DOOR GRAY
- 1 VANDALOCK-NONE REQUIRED RS
- 1 VANDALOCK-NONE REQUIRED LS
- 1 DOOR ALERT - RS EXIT NONE
- 1 DOOR, REAR EMERGENCY
- 1 THRESHOLD REAR EMGERGENCY DOOR
- 1 ELEC-DRIVER'S DOME LPS
- 1 LPS-DOME PASS MIN (6) 341T
- 1 ELEC-PASS DOME LPS MIN (6)
- 1 OPERATION-SWITCH, PANEL LAMPS DIMMER
- 1 ELEC-PASSENGER ADVISORY 341T
- 1 OPER-PASS ADV IGN/WARN/BUZZER
- 1 SWITCH-RKR FAN DEFROST L.S.
- 1 BUZZER-SWITCH PANEL 1 TONE
- 1 OPERATION-NOISE SUPPRESSION
- 1 ELECTRICAL-LAMPS WARNING,8 LAMPS 341T
- 1 OPER-LPS, DOME STANDARD
- 1 OPER-LPS BODY TAIL W/PARK SW.
- 1 LAMPS-LICENSE PLATE ILLUMINATION
- 1 ELECTRICAL-LAMPS ID/MARKER PARK/SWITCH 341T
- 1 SWITCH-ROCKER DOME LAMPS DRIVER ON/OFF
- 1 ELEC-LPS STROBE 6' FROM RR W/PWRPK
- 1 OPER-DRVR'S DOME LPS ON/OFF
- 1 OPER-HTR BOOSTER PUMP OPER WITH SWITCH
- 1 OPERATION-LAMPS INTERIOR/EXTERIOR RIGHT FRONT ENTRANCE DOOR
- 1 OPERATION-LAMPS SERVICE BRAKE WITH PILOT LAMPS
- 1 OPERATION-SWITCH ID/MARKER LAMPS WITH PARK
- 1 OPER-LPS DOME (2)ON/OFF
- 1 OPER-LPS REVERSE
- 1 ELEC-(3) SWITCH BANKS
- 1 SWITCH-WARN.LPS ON/AMB ACT.
- 1 CABLE-EVAPORATOR 1 POWER SUPPLY STANDARD
- 1 ELEC-HARNESS COMP ASM 341T
- 1 ELEC-ELECTRONIC COMP ASM
- 1 OPER-LPS DIR./HAZ.
- 1 SWITCH-RKR MIRROR HTR.
- 1 ELEC-MIR A HTD & RC
- 1 RAIL-EXTERIOR GUARD @ WINDOW,SEAT,FLOOR,SKIRT
- 1 RAIL-EXT GRD @ SEAT FRT END LS
- 1 RAIL-EXT GRD@ FLOOR, NONE
- 1 TRIM-FRT CAP RS/LS
- 1 SKIRT FORWARD STEPWELL EXPORT

- 1 PANELS-EXTERIOR REAR
- 1 SHEET-DRIVERS EXTERIOR 20 GA.
- 1 SHEET-UPPER SIDE EXTERIOR
- 1 OPER-MIRRORS EXT HTD.
- 1 UNDERCOATING-ASPHALT EMULSION
- 1 HEADERS-WINDOW INTERIOR 341T
- 1 PAINT-EXT ENT DOOR NONE
- 1 PANELS-EXTERIOR REAR SIDE LONG W/STATIONARY GLASS
- 1 LS STORAGE BOX 1 - NONE
- 1 LS STORAGE BOX 2 - NONE
- 1 RS STORAGE BOX 1 - NONE
- 1 RS STORAGE BOX 2 - NONE
- 1 RS STORAGE BOX ROH - NONE
- 1 LS STORAGE BOX ROH - NONE
- 1 PANELS-REAR END INTERIOR REAR GALVALUME
- 1 PANELS-RR END INT SI LONG W/ST
- 1 PANELS-ACCESS RR GRAY PASS ADVISORY
- 1 COVER-HARNESS ACCESS@HDR
- 1 COVER-ACCESS FRT END HARNESS
- 1 COVER-TRIM FRT ENT.ALUM.DR HDR.ELEC.OP.
- 1 MOLDING-SHOE 341T
- 1 SWITCH-ROCKER HEATER STEPWELL
- 1 LUGGAGE RACK ALERT - NONE
- 1 SWITCH-ROCKER HEATER LEFT 1ST
- 1 SWITCH-ROCKER HEATER LEFT 2ND
- 1 ELEC-HTR U/ SEAT POS 4
- 1 ELEC-HTR U/ SEAT POS 11
- 1 RAIL-SEAT
- 1 LAYOUT-SEAT RAIL HOLES RS
- 1 LAYOUT-SEAT RAIL HOLES LS
- 1 CABINET-SW, FWD
- 1 CABINET-SWITCH, LOWER WITHOUT POCKET
- 1 CABINET-SWITCH, UPPER
- 1 CABINET-TOP PLATE (3 BANK)
- 1 TREAD-STEP ALUMINUM ENTRANCE DOOR BLACK
- 1 OPER-HTR U/ SEAT LS FWD
- 1 OPER-HTR STEPWELL
- 1 INSULATION-VEST HEADLINING 2"
- 1 INSULATION-SIDELINING 2" POLY
- 1 INSULATION-RR BULKHEAD 2" POLY
- 1 OPER-HTR U/ SEAT LS AFT
- 1 HEADERS-WINDOW EXTERIOR 341T
- 1 LOCATION-EVAPORATOR NO1 REAR BULKHEAD
- 1 HARNESS COVER COLOR - GRAY
- 1 SPEAKER ALERT - PRESENT
- 1 DOME LPS - MINIMUM
- 1 HEADLINING COLOR - GREY
- 1 HDLINING TYPE-1ST WDO ACOUSTIC
- 1 MAT, FLOOR VESTIBULE
- 1 TRIM-INTERIOR DASH FORWARD
- 1 INSTALLATION-PARK BRAKE ASSEMBLY
- 1 INSULATION-INT LONG REAR WDO
- 1 LUGGAGE RACK ALERT - NONE
- 1 PLATE-ACCELERATOR
- 1 OPER-WDO P/O
- 1 SLIDE STOP NATIONAL DR.ST. NONE
- 1 NO AIR INTAKE WARMER
- 1 VANDALOCK,STARTER DISABLE W/ANY LOCKED EMER DR(S),LH PT LAMP
- 1 LOWER RADIATOR GUARD
- 1 FUEL TANK MOUNTED BETWEEN RAILS, AFT OF REAR AXLE, WITH CAGE
- 1 REMOTE-MOUNTED SURGE TANK
- 1 BASIC WIRING SCHEMATIC,UNMOUNTED,12-VOLT NEGATIVE GROUND SYS
- 1 PAINTED BATTERY PANEL COVER
- 1 BATTERY BOX FRAME MOUNTED
- 1 INTEGRAL ELECTRONIC TURN SIGNAL FLASHER

- 1 BATT ENABLED 3 AMBER INBOARD ID LAMPS,2 AMBER OUTBOARD MARKE
- 1 STROBE LAMP, IGNITION SWITCH OR LH DASH SWITCH ACTIVATED
- 1 LED WARNING SYSTEM LAMPS
- 1 STANDARD BODY VISUAL WARNING,LOWER RR,REV LAMPS ON DR/OPEN
- 1 STANDARD WIRING
- 1 DRIVER'S IGNITION OPERATED DOME LP WITH ON/OFF SW
- 1 PASSENGER COMPARTMENT DOME LAMPS, IGNITION ACTIVATED
- 1 PASSENGER COMPARTMENT DOME LPS, DUAL ON/OFF SWITCH
- 1 STEPWELL LAMP ON WITH DOOR OPEN AND MARKER LAMPS ON
- 1 EIGHT LAMP WARNING SYSTEM,LH DASH SWITCH(S), PACKAGE 2
- 1 SHIFT LEVER, CABLE LINKAGE, AUTOMATIC TRANSMISSION
- 1 DRIVELINE GUARD
- 1 NON-ASBESTOS FRONT BRAKE LININGS
- 1 FRONT SHOCK ABSORBERS
- 1 NON-ASBESTOS REAR BRAKE LININGS
- 1 NO POLISHED FRONT WHEELS
- 1 NO POLISHED REAR WHEELS
- 1 TWO QUART SEE THRU POWER STEERING RESERVOIR
- 1 POWER STEERING PUMP
- 1 ZINC-PLATED HEXHEAD CHASSIS FASTENERS
- 1 3975MM (155") REAR FRAME OVERHANG
- 1 SQUARE END OF FRAME
- 1 BUMPER MOUNTING FOR SINGLE LICENSE PLATE
- 1 COMBINATION S/T/T/R LAMPS, LED
- 1 RR EMER DR,IGN CTRL,BZ ON W/DR
- 1 MAINTENANCE-FREE RUBBER BUSHINGS - FRONT SUSPENSION
- 1 CAB MOUNTING FOR HOOD AND COWL CHASSIS
- 1 RH FRONT ENTRANCE DOOR, BATTERY CONTROLLED,ELECTRICALLY OPER
- 1 MANUAL ENT DOOR LOCK/BUZZER ON W/EMERGENCY DOORS UNLATCHED
- 1 ONE GALLON WINDSHIELD WASHER RESERVOIR
- 1 BLACK HOOD MOUNTED AIR INTAKE GRILLE
- 1 SINGLE ELECTRIC WINDSHIELD WIPER MOTOR W/DELAY
- 1 GRAY/CHARCOAL FLAT DASH
- 1 STANDARD TUNNEL/FIREWALL LINER
- 1 NO AIR CONDITIONER CONDENSER
- 1 STANDARD HVAC DUCTING
- 1 MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH,& NOISE SUPPRES
- 1 WINDSHIELD FAN,(1) HEADER MOUNTED
- 1 DRIVER'S FAN,(1) MOUNTED ABOVE SIDE WINDOW
- 1 AUX BODY HEATER,UNDER SEAT,FWD
- 1 AUXILIARY BODY HEATER, UNDER SEAT, AFT
- 1 GRAY INSTRUMENT PANEL-DRIVER
- 1 BODY SUPPLIED HEATED MIRRORS
- 1 ROOF MOUNTED VENT/ESCAPE HATCH
- 1 PUSH OUT BODY SIDE WINDOWS, BUZZER WITH WINDOW UNLATCHED
- 1 SEPARATE PANEL LAMP DIMMER,LH DRIVER'S SWITCH PANEL
- 1 CHASSIS COWL AND HOOD ONLY
- 1 NO TCU-TRANSMISSION OPTIMIZED(NO FUEL SENSE)
- 1 PILOT,LH DASH,STOP LAMP MONITOR
- 1 BUMPER: BLACK
- 1 NO SPARE WHEEL PAINT
- 1 CHASSIS: VENDOR BLACK
- 1 EXPECTED GROSS VEHICLE WEIGHT CAPACITY
- 1 EXPECTED FRONT AXLE(S) LOAD
- 1 EXPECTED REAR DRIVE AXLE(S) LOAD
- 1 SCHOOL BUS SERVICE
- 1 COWL CHASSIS CONFIGURATION COMPLIES WITH SBMTC
- 1 BUS BODY WITH WHEELWELL
- 1 PASSENGER COMMODITY
- 1 100% ON-HIGHWAY (CITY) TERRAIN
- 1 DOMICILED USA 50 STATES (CALIFORNIA)
- 1 DOMICILED OKLAHOMA
- 1 THOMAS BUILT SCHOOL BUS 341T

## **CHASSIS**

## **AXLES AND SUSPENSIONS**

- 1 ALIGNMENT-4-WHEEL SAF-T-LINER C2
- 1 SPL100 DANA SPICER MAIN DRIVELINE
- 1 DA-F-10-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
- 1 CHICAGO RAWHIDE FRONT OIL SEALS
- 1 SYNTHETIC 75W-90 FRONT AXLE LUBE
- 1 CONMET IRON FRONT HUBS
- 1 SYNTHETIC 75W-90 REAR AXLE LUBE
- 1 DA-RS-23-4 23,000# R-SRS SINGLE REAR AXLE
- 1 5.22 AXLE RATIO
- 1 IRON REAR AXLE CARRIER HOUSING
- 1 REAR SHOCK ABSORBERS - ONE AXLE
- 1 CHICAGO RAWHIDE (SCOT) REAR OIL SEALS
- 1 GUNITE IRON REAR HUBS
- 1 10,000 LB. TAPERLEAF FRONT SUSPENSION
- 1 COMFORT TRAC 23K 52 INCH RR SPRING SUSPENSION
- 1 COMFORT-TEC SUSPENSION

## **BRAKES**

- 1 BOSCH HYDRAULIC BRAKE PACKAGE
- 1 BOSCH HYDRAULIC PIN-SLIDE DISC FRONT
- 1 DISC BRAKE FRONT ROTORS FOR HYDRAULIC BRAKES
- 1 BOSCH HYDRAULIC PIN-SLIDE DISC REAR
- 1 REAR BRAKE DUST SHIELDS
- 1 FRONT BRAKE DUST SHIELDS
- 1 TRANSMISSION-MOUNTED PARK BRAKE
- 1 REAR DISC BRAKE ROTORS
- 1 WABCO HYDRAULIC ABS (4) CHANNEL WITHOUT TRACTION CONTROL
- 1 FT OPER PARK BRAKE w/SERVICE BRAKE INTERLOCK w/INDICATOR

## **CHASSIS EQUIPMENT**

- 1 ANTI-FREEZE, OAT -34 DEGREE
- 1 WINTERFRONT-CHASSIS GRILLE YELLOW
- 1 SHIELD-EXHAUST PIPE
- 1 B2 106 CONVENTIONAL CHASSIS
- 1 SET-BACK AXLE - TRUCK
- 1 DELCO 12V 29MT STARTER WITH INTEGRATED M
- 1 NO CLUTCH PEDAL WITH NON-ADJUSTABLE
- 1 ENGINE COMPARTMENT MOUNTED AIR RESTRICTION INDICATOR W/LIGHT
- 1 HORIZ TAILPIPE, EXIT LH REAR
- 1 NO DEF TANK
- 1 NO BUMPER FRONT VISUAL WARNING DEVICE
- 1 MAGNETIC ENGINE DRAIN, REAR AXLE DRAIN & FILL PLUG
- 1 EXHAUST MITIGATION DEVICE FTL 4" ID SLIP
- 1 NO TRACTION STABILIZER
- 1 TILT ONLY STEERING COLUMN
- 1 TRW THP-60 POWER STEERING
- 1 450MM(18") LK FOUR-SPOKE CHARCOAL STEERING WHEEL
- 1 7075MM (279") WHEELBASE
- 1 5/16" X 3" X 10-1/8" STEEL FRAME 120,000 PSI YIELD
- 1 1-PIECE 14" PTD STL 1/4" HD BUMPER JACK PROVISION
- 1 FRONT FRAME-MOUNTED TOW HOOKS
- 1 NO AUTO TRACTION CHAINS
- 1 REAR TOW HOOKS
- 1 FIBERGLASS HOOD
- 1 PAINTED PLASTIC GRILLE
- 1 YELLOW WINTERFRONT
- 1 (2) CUPHOLDERS, LEFT HAND AND RIGHT HAND DASH
- 1 HYDRAULIC CHASSIS TUBING

## **ELECTRICAL - CHASSIS**

- 1 LN 12 VOLT 270 AMP 4949PA PAD MOUNT ALTERNATOR
- 1 PROG RPM CTRL W A/C OR 12.75V LOW VOLT AUTO HI IDLE, DASH SW
- 1 CRUISE CONTROL-ELEC ENG,W/SWITCHES IN LH SWITCH PANEL
- 1 STARTER CONTROL-FUEL FILL DOOR STARTER
- 1 DIAGNOSTIC INTERFACE CONNECTOR,9-PIN, S
- 1 IGNITION SWITCH CONTROLLED ENGINE STOP

- 1 WARNER ELECTRIC ELECTRO-MAGNETIC ON/OFF
- 1 12VOLT POWER SUPPLY LH PANEL
- 1 SOLID STATE CIRCUIT PROTECTION, PDMS WIT
- 1 (3) ALLIANCE 1031, GROUP 31, 12 VOLT, MF 2280 CCA BATTERIES
- 1 COLE HERSEE BATTERY CUT-OFF SWITCH, BATTERY BOX MOUNTED
- 1 SELF CANCEL TURN SIGNAL SWITCH W/DIM/WASH&HAZZARD IN HANDLE
- 1 STANDARD FRONT TURN SIGNAL LIGHTS
- 1 PARK LMP SW INTGRAL W/HL SWITCH, ID/MARKER/CLEARANCE/PARK ON
- 1 NO FENDER MTD TURN/MARK COMBO LPS
- 1 AMBER LED MIDSHIP TURN SIGNALS
- 1 DAYTIME RUNNING LIGHTS SET @ 85%
- 1 INTEGRAL HEADLIGHT/MARKER ASSEMBLY
- 1 NO UTILITY/ADVERTISING LIGHT
- 1 STOP SIGN PRESENT
- 1 NO BAGGAGE COMPARTMENT LAMP
- 1 NO BODY MTD INT SPOT/WORK LAMP
- 1 IGNITION POWERED 3-POS INTERNAL DOOR CONTROL SWITCH
- 1 DUAL ELEC HORN, PASSENGER ADVISORY BUZZER ON W/IGN AND WARN
- 1 NO OBSTACLE DETECTION SYSTEM
- 1 NO CAMERA/VIDEO/IMAGING SYSTEM
- 1 C/F J1939 RADIO W/PA
- 1 FASTEN SEAT BELT INDICATOR FOR CUSTOMER SUPPLIED SEAT BELT
- 1 LOCATING SYSTEM WITH VEHICLE MONITORING
- 1 ELECTRONIC SPEEDOMETER WITH SECONDARY KPH SCALE, NO ODOMETER
- 1 ICU3S, 132x48 Display w/Diagnostics, 28 LED Warn Lamps
- 1 TBB ZONAR DASH MOUNTED
- 1 NO INFORMATION CENTER
- 1 PRE/POST TRIP SYSTEM TEST
- 1 ENGINE AND HOUR METERS INTEGRAL WITH DRIVER DISPLAY
- 1 DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
- 1 ELECTRIC FUEL GAUGE
- 1 ELECTRIC ENGINE OIL PRESSURE GAUGE
- 1 ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
- 1 TRANSMISSION OIL TEMPERATURE GAUGE

### **ENGINE AND EQUIPMENT**

- 1 CUMMINS B6.7N 220HP @ 2400 RPM, 2600 GOVERNED
- 1 ANTI-FREEZE TO -34F, OAT (NITRITE AND SILICATE FREE)EXT LIFE
- 1 ENGINE-MOUNTED OIL CHECK AND FILL
- 1 CUMMINS SUPPLIED FLEETGUARD COALESCING FILTER
- 1 STANDARD ENGINE OIL
- 1 FULL FLOW OIL FILTER
- 1 NO FUEL/WATER SEPARATOR
- 1 EXHAUST BRAKE NONE
- 1 ALUMINUM FLYWHEEL HOUSING
- 1 PHILLIPS 750 WATT/115 VOLT BLOCK HEATER
- 1 STANDARD OIL PAN
- 1 ENGINE HEATER RECEPTACLE MOUNTED FACE OF BUMPER, LEFT SIDE
- 1 ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION
- 1 ADDL AUX LINES W/MANIFOLD PLUMBING AND COMBINED SHUTOFF
- 1 GATES BLUE STRIPE COOLANT HOSES
- 1 CONSTANT TORQUE BREEZE CLAMPS ON 1" IN DIA GREATER, SS C
- 1 CAST BOOSTER PUMP
- 1 30,600 BTU STEPWELL HEATER, RH FRONT ENTRANCE DOOR
- 1 DONALDSON ONE-STAGE AIR CLEANER
- 1 15.9X83.1 INCH CYLINDRICAL ALUMINUM
- 1 RH CNG NGV1 STD+LH Slow Fill
- 1 15.9X83.1 INCH CYLINDRICAL ALUMINUM
- 1 FUEL TANK AFT OF FRONT AXLE
- 1 FUEL TANK AFT OF FRONT AXLE
- 1 SGL CNG FUEL LINE W/IN-LINE SOLENOID
- 1 CNG FUEL HEATING SYSTEM
- 1 (2) 15.9X83.1 INCH CYLINDRICAL ALUMINUM
- 1 750 SQUARE INCH DOWN FLOW RADIATOR
- 1 ENGINE AFTERTREATMNT WIRING, OXYGEN SENSOR
- 1 CNG) COMPRESSED NATURAL GAS FUEL



- 1 NO IDLE SHUTDOWN CONFIGURATION
- 1 ELECTRONIC TACHOMETER 3000 RPM

### **TRANSMISSION AND EQUIPMENT**

- 1 ALLISON 2500 PTS AUTOMATIC TRANSMISSION
- 1 ALLISON VOCATIONAL PACKAGE 354 - FIFTH GEN
- 1 TRANSMISSION OIL CHECK AND FILL
- 1 SYNTHETIC 50W TRANSMISSION LUBE (TES-295 COMPLIANT)
- 1 WATER TO OIL TRANSMISSION COOLER - IN RADIATOR END TANK
- 1 NO TCU-LBSS VAC
- 1 NO MODE SWITCH

### **WHEELS AND TIRES**

- 1 RADIAL FRONT TIRE, MICHELIN XZE2, 11R22.5 16 PLY
- 1 MICHELIN X MULTI D 11R22.5 16 PLY REAR TIRES
- 1 NO TIRE PRESSURE CONTROL/SENSOR
- 1 MAXION 90262 22.5 X 8.25 10 HOLE HUB PILOT 5-HAND
- 1 MAXION 90262 22.5 X 8.25 10 HOLE HUB PILOT 5-HAND
- 1 TIRE/WHEEL BALANCING-LEAD FREE WEIGHTS
- 1 ACCURIDE PK-BLACK21 POWDER BLACK WHEEL (N0001H)- FRONT
- 1 ACCURIDE PKBLK21 POWDER BLACK WHEEL (N0001H) - REAR

### **OTHER TYPE**

#### **GEARS**

- 1 PRIMARY MODE GEARS, 5 FORWARD

#### **Dealer add on's**

- 1 Seon three camera system

**Meets all FMVSS requirements in effect at the time of manufacture.**

**Customer Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Dealer Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Example Quote #3**  
**(All-Electric Bus)**



2500 South Meridian • Oklahoma City, OK 73108-1744  
 Office: 405-681-6691 • Toll Free: 800-965-7677 • Fax: 405-681-6693

DISTRIBUTORS OF **BLUE BIRD** SCHOOL BUSES

**Corporate Office**

**Ryan Ross, General Manager**

**Oklahoma Bus Sales**

**Todd Miller, Sales Representative**

**BID TO:** Oklahoma Department of Environmental Quality  
**ADDRESS:** 707 N. Robinson Ave.  
**CITY/STATE/ZIP:** Oklahoma City, OK 73102

**CONTACT:** Ms. Christina Hagens  
**TELEPHONE:** 405-702-0100  
**BID DUE DATE:** Immediate

**GENERAL DESCRIPTION:**

2021 Model Year, Blue Bird VISION Conventional (Type C) School Bus, Model BBCV3303

**71 Passenger Capacity – Electric Powered**

Chassis and Body manufactured by Blue Bird Body Company

**SPECIFICATIONS:**

<b>AXLES, SPRINGS &amp; SHOCK ABSORBERS:</b>		
Front axle:		12,000# rating, oil lubed bearings
<b>Front springs:</b>		<b>8,500# capacity, "Softek" Parabolic tapered leaf</b>
Rear axle:		23,000# capacity, 5.29:1 ratio, oil lubed bearings
<b>Rear springs:</b>		<b>23,000# capacity, 2-Stage</b>
Shocks absorbers:		Direct acting, front and rear
<b>BACKUP ALARM:</b>		112DB Safety alarm - operates while in reverse gear
<b>BATTERY:</b>	Auxiliary, Single (1), 12 volt, Group 31, 700 cca rating, enclosed with sliding tray & locking latch	
<b>BATTERY SYSTEM:</b>		<b>High Voltage, 155kW – energy storage module (ESM)</b>
	<b>Consist of two (2) strings of seven (7) lithium-ion nickel-manganese-cobalt (NMC) batteries and a battery management system (BMS)</b>	
		ESM – Total System Capacity of approximately 155kWh
		Each set of seven (7) strings is wired in series and each string is wired in parallel to each other.
		Each string can operate independently such that no single point failure can cause the vehicle to be inoperable
<b>BODY ELECTRIC PANEL:</b>		Battery Disconnect Switch installed
<b>BRAKE SYSTEM:</b>		Exterior under driver window, with key lock
		<b>Bendix Air Disc Brakes: w/ Anti-lock (ABS)</b>
		Bendix AD-9 Air Dryer, DV-2 Automatic, Heated Drain Valve installed on Air Wet tank
		Dust Shields, Brakes, front and rear
<b>BUMPERS:</b>	Parking Brake:	9" diameter x 3" wide, internal expanding, transmission mounted w/ interlock
<b>CERTIFICATION:</b>		Front-15" x 3/16" steel, – Rear – 12" x 3/16" steel
		<b>Colorado Rack &amp; Kentucky Pole Test Certified</b>
		<b>Altoona Tested</b>
<b>CHILD REMINDER:</b>		<b>Doran, Sleeping Child Check System, Warning Light Activated w/ Instruction Label on FRT bulkhead</b>
<b>CIRCUIT PROTECTION:</b>		Manual resetting circuit breakers on body circuits
<b>COWL STEPS &amp; GRIP HANDLES:</b>		Mounted LH & RH at windshield
<b>CRUISE CONTROL:</b>		<b>Deleted per Electric Requirements</b>
<b>DOORS:</b>	Entrance:	Double Outward type with <b>Manual Controls</b>
		Entrance door laminated glass, tinted 70% light transmittal
		3-step step-well with <b>black rubber ribbed step treads</b>
	Exit:	Rear center mounted with upper/lower glass, tinted 30% light transmittal
		Retainer to hold door open
	Header Pad: (Entrance & Rear Exit Door):	Black self-skinning foam
	Vandal Locks:	Entrance door equipped with key lock
		Rear door equipped with sliding bolt lock

2021 model BBCV3303 - 71 passenger Conventional School Bus – - Electric

EMERGENCY EQUIPMENT: Per Oklahoma Requirements  
5lb Fire Extinguisher, First Aid Kit, Warning Devices, Body Fluid Cleanup Kit # Seatbelt Cutter

EMERGENCY EXITS:  
Roof Hatches: Two (2) Safe Fleet combination escape hatch/vents  
Push-out windows: Vertical Hinged, two (2) per side - four (4) per body

<b>MOTOR DRIVE:</b>	<b>Prestolite / TM4 Model</b>
Electric Motor:	LSM200C- HV3000
	Six Phase, Alternating Current, Permanent Magnet, Induction motor
Continuous Power Rating:	187HP/140kW
Peak Power Rating:	315HP/235kW
Continuous Torque rating:	785 Lb-Ft / 1065Nm
Peak Torque Rating:	2,400Lb-Ft /3255 Nm
Maximum Speed:	3,000RPM
Governed Road Speed:	65 MPH per Electric Requirements
Miles Per Charge:	Up to 120 miles – Depending on drive cycle, driver behavior and accessory use

**High voltage module:** Incorporates all of the high voltage power electronics for the vehicle including the main driver inverter, accessory inverters, DC-DC converters, a high voltage power distribution unit and chargers. This integrated package enables quick connections to all major high voltage components on the vehicle.

**Electrically driven accessory module:** powers the vehicle accessories such as power steering and braking. An electrically driven air compressor is used to provide air for air brake systems and air controlled accessories.

**An electrically driven hydraulic pump:** provides hydraulic pressure to support the steering system. Operation of these accessories is controlled by the Low-Voltage/Control Module to minimize power consumption while meeting vehicle performance requirements.

**Low-Voltage/Control Module:** includes the vehicle controller, proprietary software, low voltage power distribution unit, all relays and fuses and a telematics system. The vehicle controller communicates to all system components over two CAN buses. The software optimizes the operation of all system components to achieve maximum efficiency and desired performance. It also communicates with the driver controls and displays to respond to driver inputs and display system data such as miles to empty, temperatures, and vehicle speed to the dash display.

**Thermal Management Unit:** maintains the proper operating system temperatures for the electric powertrain. In addition, this unit provides the necessary heat for the defrost/defog unit for the driver's area. The list of components that are temperature controlled are as follows: the electric prime mover, main batteries, the high voltage module, and associated inverters and converters.

ENGINE COOLING SYSTEM: Radiator for Water cooling of the motor  
ENGINE NOISE REDUCTION: Firewall Insulation, Driver's Area

FLOOR COVERING: Front (2) ceiling panels (driver & 1st section), acoustic headlining  
Heavy Duty Black Rubber with aluminum aisle trim  
5/8" plywood subflooring over steel floor, affixed with screws  
Speedometer, miles- to empty, temperature, clock  
Glove box - below windshield, right side w/ latch & Console mounted armrest  
Extra height headroom, 77 inches (6'5") at center aisle

GAUGES:  
GLOVE BOX / CONSOLE:  
HEADROOM:  
HEATERS: Left front heater & defroster: 90,000/btu  
LH, under seat front heater: 50,000/btu  
LH, under seat rear heater: 50,000/btu  
Heater water booster pump:  
Dual defroster fans: 12 volt, on/off switch  
Mounted upper center & upper left, 2-speed switch

HOOD & FENDERS:  
HORNS: Dual electric horns  
INSULATION: Fiberglass/mineral wool, full body insulated  
LETTERING: Name of school district on beltline

**LIGHTS:** Backup lights: Two (2) clear lens, 4" -rear, LED  
Clearance lights: Two (2) amber lens, grommet mount -front / Two (2) red lens, grommet mount -rear, LED  
Identification lights: Three (3) amber lens, grommet mount -front / Three (3) red lens, grommet mount -rear, LED  
Directional lights: Two (2) amber lens -front, fender mounted / Two (2) amber lens, 7" -rear, LED  
Directional lights, side: One (1) amber lens, per side, LED  
Dome lights: Two rows, mounted above passenger seats, LED  
Single dome light for driver's area, separate switch - LED  
Doran 16-light monitor mounted in driver area  
Monitor: Exterior Light Test w/ Switch  
Pre-Trip: Interior, operates with door control, LED  
Step-well light: Roof Mounted, White, LED, wired to Switch  
Strobe Light: Two (2) red lens, 4" & Two (2) red lens, 7" -rear, LED  
Stop & Tail lights: Eight (8) light system, non-sequential, LED with hoods  
Warning lights: ROSCO, Open View (ES) Split Mirror System, 7"x10" Flat Mirror & 7"x 10" Convex Mirror

**MIRRORS:** Exterior rearview: Rearview exterior mirrors have black powder coated steel brackets  
ROSCO, Eye-Max-LP Asymmetric Shaped Mirrors  
Bell-Mount brackets for Cross-view Mirrors  
Exterior cross-view: All exterior mirrors are electrically heated, Rearview (exterior) are heated & remote controlled  
6"x30" flat mirror, padded edge  
Interior rearview: Black rubber mud flaps, front and rear

MUD FLAPS & FENDERS: Black rubber fenders at rear wheel-housing opening  
National School Bus Yellow with black trim

PAINT: Exterior: White  
Exterior roof: Two (2) year discoloration & Five (5) year adhesion  
Warranty (Paint): Green, Electric Bus Vinyl Graphic  
Special Logo:

PANELS:	Exterior:	Side, 20-gauge Fluted, 19/34" Skirts
	Interior	Roof sheets, constructed of 20-gauge galvanized steel (window header to window header)
POWER SOCKET:		Ceiling panels: 22-gauge steel, double-hemmed w/ rivet installation (No screws)
RADIO:		12 volt, mounted in switch panel, for cell phone, etc.
REFLECTIVE TAPE:		AM-FM-MP3-USB-PA Radio with eight (8) interior speakers
		3M™ reflective vinyl, yellow
RUB RAILS:		"SCHOOL BUS" in 8" black letters on 3M™ yellow reflective background, Front and Rear
SEATS:	Passenger:	Side & rear marker strips - marker strip surrounds each emergency exit
	Upholstery:	Four (4) double-ribbed, 16-gauge steel exterior body rub rails, <b>Painted black</b>
	Driver:	DOT approved High Back School Bus Bench Seats
		Grey Fire Block Upholstery
STEERING:		National Hi-back seat w/ mechanical pedestal & RH armrest
STOPARM:		Charcoal Cloth Upholstery, Bright Orange Shoulder harness & lap belt restraint
SUNVISOR:		<b>Hydraulic power, tilt &amp; telescoping wheel, 50 degree wheel cut</b>
SWITCHES:		18" octagon sign w/flashing red lights, electric, <b>LED</b>
TIRES & RIMS:	Front:	6.5"X30", Green plexi-glass, padded edge
	Rear:	Rocker type switches w/ latching noise suppression switch
	Rims:	11R22.5, Cooper Tire, LRH, Highway tread
		11R22.5, Cooper Tire, LRH, Highway tread
TOW HOOKS:		22.5 x 8.25, 10-Stud, Hub Piloted, Disc Rims
UNDERCOATING:		Dual hooks, front and rear, chassis frame mounted
WINDOWS:	Side, split sash:	Underneath body fully undercoated
	Rear, fixed panel:	<b>Tinted to allow 30% light transmittal</b>
	Entrance Door-& Driver Window:	<b>Tinted to allow 30% light transmittal</b>
		<b>Tinted to allow 70% light transmittal</b>
WINDSHIELD:		Two (2) piece curved, shaded safety plate
WINDSHIELD WIPERS:		Electric, intermittent speed, w/washers
WIRING:	Chassis:	Multiplex chassis wiring w/ LED readout on module
	Body:	Colored and continuously number coded in molding on top of side windows
WHEELBASE:		273" wheelbase

This Blue Bird School Bus meets the State of Oklahoma and Federal School Bus requirements, **effective for date of manufacture.**

ESTIMATED TOTAL UNIT COST, FOB: School----- **\$330,000.00, per unit**

DELIVERY TIME: ----- **\_ 180 - 210 Days Upon PO \_**

Ryan Ross  
 ROSS TRANSPORTATION, inc.

BID ACCEPTED BY SCHOOL DISTRICT OFFICIAL

09/12/2019  
 Date of Bid

Date of Acceptance