

TRA 24-01 - Supply and Delivery of School Buses - Quote Form - Bus Unit Price: Type D Electric

<u>Line Item</u>	<u>Bus Description</u>	BYD Canada Company Ltd	Dynamic Specialty Vehicles
		<u>Submission 1</u>	<u>Submission 1</u>
		<u>Unit Price</u>	<u>Unit Price</u>
1	Type D (80+ Passenger or Maximum Capacity). All units and components must meet Federal and Provincial regulations and requirements and current D250.	\$488,000.00	\$552,000.00

TRA 24-01 - Supply and Delivery of School Buses - Quote Form - Option Pricing: Type D Electric

<u>Line Item</u>	<u>Optional Pricing</u>	BYD Canada Company Ltd			Dynamic Specialty Vehicles		
		<u>Charge Type</u>	<u>Unit Price</u>	<u>Additional Information</u>	<u>Charge Type</u>	<u>Unit Price</u>	<u>Additional Information</u>
1	One (1) additional spare tire mounted.	Additional	\$850.00		Additional	\$1,320.00	Ship loose with rim. Cannot mount on EV model.
2	Air horn roof mounted.	Not Available			Additional	\$255.00	
3	Driver's storage compartment overhead left side.	No Charge	\$0.00	Standard configuration	Additional	\$220.00	
4	Drivers Clipboard Storage accessible from drivers seat.	No Charge	\$0.00	Standard configuration	No Charge		Included in the base price
5	Traction control through ABS.	No Charge	\$0.00	Standard configuration	No Charge		Included in the base price as a standard option for Blue Bird buses.
6	Driver controlled differential lock.	Not Available			Not Available		
7	Limited slip rear axle.	Not Available			Not Available		
8	Automatic greasers minimum of 12 grease points.	Not Available			Additional	\$3,996.00	
9	Acoustic ceiling panels throughout.	No Charge	\$0.00	Standard configuration	Additional	\$1,070.00	
10	Stop Arm Camera System	Additional	\$1,080.00		Additional		Custom configurations will be coordinated and priced with customers upon finalizing purchases.
11	Interior mirror - 10" x 30" mirror adjustable no windshield obstruction.	No Charge	\$0.00	Standard configuration	Additional	\$50.00	
12	Recommended Level 2 charging system for your bus	Additional		Available for quote .All standard AC-J1772 and/or DC-CCS combo chargers are compatible	Not Available		Requires Level 3 DC charging. See Energy Services and Charging Stations.pdf for details on charging options and services.
13	Emergency roof hatch vent with exhaust fan.	Additional	\$680.00		Additional	\$1,115.00	
14	Wheelchair lift specify OEM. Supply and install wheelchair lift with one chair position across from lift inclusive of tie down system.	Additional	\$20,000.00	Braun Wheelchair Lift	Additional	\$13,100.00	Lift is Braun. Price includes items required for a wheelchair lift bus which includes but not limited to: Lift lift doors reinforcement plates brake interlock Qstraint etc.
15	Track seating per wheelchair space.	No Charge	\$0.00	Standard configuration	Additional	\$2,760.00	
16	Tinted windows throughout.	No Charge	\$0.00	Standard configuration	No Charge		Included in the base price as a standard option for Blue Bird buses.
17	Power and Range upgrade / downgrade -Price for each range option available	Not Available			Not Available		This model is only available in 155kWh
18	Pedestrian Detection System	Not Available			Additional	\$2,450.00	Mobiley Collision Avoidance System installed by Mobiley certified installer.
19	Integrated child seats/per seat. Attach information details.	Additional	\$950.00		Additional	\$810.00	
20	Telescopic steering.	No Charge	\$0.00	Standard configuration	No Charge		Included in the base price as a standard option for Blue Bird buses.
21	Hydraulic brake school bus with air seat and air suspension.	Not Available			Not Available		
22	Hydraulic brake school bus (no air components).	Not Available			Not Available		
23	Adjustable Foot Pedals	Not Available			Additional	\$1,750.00	
24	Underbody full thru luggage compartments	No Charge	\$0.00	Standard configuration	Not Available		Not available on EV model
25	In-service training for chassis and body maintenance procedures at Purchaser's facility	Additional	\$280.00	280 per hour; Up to 10 trainees	Additional	\$895.00	Facilitated by Blue Bird certified Dynamic technician. Training opportunities at Dynamic and factory also available.
26	Laptop & connectors with applicable programming & software or licensing including training for each style of bus supplied. ABS software	Additional		Available for quote	Additional	\$3,000.00	Vantage online access and ABS (Wabco) software included. Ford/Roush software for Propane & Gas buses and Cummins software for Diesel buses.
27	exterior entry door handle	Not Available			No Charge		Included in the base bus price. Option: Ruggedized exterior entry door handle with lock available.
28	Extended Stop Arm	Not Available			Additional	\$7,420.00	Aftermarket installation by Dynamic Specialty Vehicles
29	35- Air operated disc brakes	No Charge	\$0.00	Standard configuration	Additional	\$4,440.00	
30	First Light Safety Products FULLY ILLUMINATED STOP ARM Air Drive	Additional		Available for quote	Additional	\$2,670.00	Aftermarket installation by Dynamic Specialty Vehicles
31	First Light Safety Products FULLY ILLUMINATED STOP ARM Electric Drive	Not Available			Additional	\$3,160.00	Aftermarket installation by Dynamic Specialty Vehicles
32	First Light Safety Products ILLUMINATED SCHOOL BUS SIGN	Not Available			Additional	\$1,960.00	Aftermarket installation by Dynamic Specialty Vehicles
33	Sears Atlas Seat	No Charge	\$0.00	Standard configuration	Additional		Custom configurations available and will be coordinated and priced with customers upon finalizing purchases.
34	CalAmp Synovia Solutions K12 GPS Vehicle Management System - Core System	Additional		Available for quote	Additional		Custom configurations will be coordinated and priced with customers upon finalizing purchases.

35 CalAmp Student Ridership Tracking	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
36 CalAmp Here Comes The Bus	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
37 CalAmp Tablet with Integrated services	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
38 CalAmp Vision Dash Cam	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
39 Gatekeeper Y58 v3 Recorder 8 channel (4 AHD and 4 IP) hybrid DVR	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
40 Gatekeeper Y35 v3 Recorder 5 channel (4 AHD 1 IP) recorder	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
41 Gatekeeper AI Dash Cam (2 in-built cameras)	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
42 Geotab telematics device with applicable harness kit and connections	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
43 Safefleet Kit A - DH8. 8-Channel High-Definition DVR	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
44 Safefleet Kit B - DH6. 6-Channel High-Definition DVR	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
45 Safefleet Kit C - DH4. 4-Channel High-Definition DVR	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
46 Safety Vision Kit SV Bronze	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
47 Safety Vision Kit SV Gold	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
48 Safety Vision Kit SV Essential	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
49 Tyler Drive Tablet and applicable mount	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
50 Zonar GPS unit with EVIR handheld device and applicable accessories	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.
51 Zonar DashCam Kit with applicable accessories	Additional	Available for quote	Additional	Custom configurations will be coordinated and priced with customers upon finalizing purchases.

TRA 24-01 - Supply and Delivery of School Buses - Specification - Base Bus Specifications: Body - Type D Electric

<u>Line Item</u>	<u>Body Specifications</u>	<u>BYD Canada Company Ltd</u>		<u>Dynamic Specialty Vehicles</u>	
		<u>Yes/No</u>	<u>Additional Information</u>	<u>Yes/No</u>	<u>Additional Information</u>
1	Full power steering - minimum 18" diameter steering wheel Tilt steering column telescopic	Yes		Yes	
2	Aluminized Interior Steel Walls Head Room - 77" Subfloor - 5/8" plywood Rubber covered light coloured ribbed in aisle Floor materials to be covered to sidewalls	No		Yes	
3	Wheel housings to be molded type and fully covered All joints to be silicone sealed - including sidewalls and perimeter	Yes		Yes	
4	Mud flaps Installed on front and on rear wheels rubber fenderettes on all four (4) wheel wells	Yes		Yes	
5	Exterior paint to meet national school bus yellow standard black rub rails light colour interior	Yes		Yes	
6	Exterior Lettering 6" - (Purchaser name) both sides at belt line 4" - Bus # two front corners and opposite license plate rear	Yes		Yes	
7	Exterior Lettering con't 2" - Capacity GVW (Purchaser name) on side panel back of entrance door and side panel below driver	Yes		Yes	
8	Internal signs over windshield - No Smoking - No Standees	Yes		Yes	

9 Body fully undercoated for noise and enhanced rust protection. Please describe what is included and optional levels of protection available including costs	Yes	The body is fully undercoated for noise and enhanced rust protection. DINITROL_4942 is used for rust protection. Not available as an option DINITROL 4942 is an under-body product for treatment of vehicles during production at import plants and in the after-market. When applied to a clean dry surface it adheres to both painted surfaces and those coated with a layer of PVC or similar material. Zinc rubber and plastics are completely unharmed by the product. A clean and economic treatment on the line is assured by easy application and high solid content. DINITROL 4942 is designed to be used on spare parts machines and iron and steel structures in highly corrosive environments. DINITROL 4942 is also very suitable as a transport and storage anti-corrosive for long-term transporting or warehousing under extreme corrosive circumstances.	Yes	Sulfonate Enhanced DTM Modified Wax coating is applied to the underbody of the vehicle. This premium coating replaces the standard asphalt emulsion undercoating and provides approximately twice the performance in highly corrosive environments where de-icing chemicals are prevalent. Coating is black in color and applied to a dry film thickness of 5-8 mils.
10 Crossing arm deactivation switch	Yes		Yes	
11 Tinted windshield wipers dual electric with intermittent control Windshield washers with wet arm windshield washer tank 2 litres minimum	Yes		Yes	
12 Split sash side windows tinted	Yes		Yes	
13 All emergency exits to be vandal lock equipped	Yes		Yes	
14 Two (2) roof emergency escape hatches	Yes		Yes	
15 Entrance door to be air or electric operated with an emergency release valve mounted outside. Both doors heavy duty split type windows in upper and lower sections to open outward	Yes		Yes	
16 Entrance steps covered white trimmed with assist rails right and left side	Yes		Yes	
17 Body insulation including walls ceiling and roof bows - to be fibreglass or equivalent Dust intrusion package on underside of bus up to floor joint	Yes		Yes	
18 Power to accessory side of ignition	Yes		Yes	
19 Circuit breakers	Yes		Yes	
20 Instruments: Dash mounted hr meter Battery Monitor speedometer in kmh c/w odometer in km Range (2) air pressure gauges if air equipped. Please describe Instrumentation and dash cluster provided	Yes		Yes	Speedometer Efficiency Gauge Message Display Center State of Charge (SOC) Motor Temperature Battery Temperature Front Air Gauge Rear Air Gauge Left Warning Area Right Warning Area Control Panel Center Warning Bank
21 Instrument panel shall be illuminated and include text light indicators monitoring both the amber and red light warning activations; lcruise control activation cruise control	Yes	no cruise control	Yes	Cruise control not available on Electric Bus.
22 12 volt power point in switch panel	Yes		Yes	
23 Back-up alarm	Yes		Yes	
24 Two (2) LED strobing stop arms - mounted front and rear driver's side with wind guards.	Yes		Yes	
25 Driver alert system installed on battery door	No		Yes	
26 Front headlights HD all exterior lights to be LED cluster lights: front and rear - six (6) in total LED 8 light system non-sequential with master switch and visors	Yes		Yes	
27 Two (2) rows of interior lights front and rear half on separate dimmer switches	No		Yes	
28 One (1) driver's light on separate switch	Yes		Yes	
29 Interior rear view mirror and sun shield. Minimum 6" to maximum 10" x 30" with no obstruction of windshield	Yes		Yes	
30 Right and left side primary and convex mirrors; remote adjustable Exterior convex crossovers self-defrosting mounted on right and left sides	Yes		Yes	
31 Two (2) heavy duty auxiliary windshield defroster fans switched separately one for each windshield. To cover full width of windshield and drivers left side window. Heavy duty defroster motors.	Yes	Option	Yes	
32 Defroster approximately 90 000 BTU capable of clearing front windows	Yes	BYD school buses have both heated windshield + Defroster to clear the front window	Yes	
33 School buses must be equipped with heating units and be able to sustain 15.5 degrees C (plus or minus 2 degrees) inside the vehicle when the outside temperature is 0 degrees C ambient. Heaters should not decrease vehicle range by more than one percent. Please describe achievable in vehicle temperature when outside temperature is -30C and provide the expected impact of heating the interior cabin temperate on vehicle range especially when outside temperature conditions are very cold.	Yes	Yes standard heaters can meet the desired temp but not without some impact on range in extreme weather conditions. If so desired, a diesel powered heater working in conjunction with our electric heat pump will provide the heating and cooling without impacting operating range more than what is allowed in the cabin area. Our larger 288 kwh battery will likely negate the need for a diesel powered heater and provide the most robust and reliable heating and cooling solution for students in todays electric school bus market.	No	Type D Electric Bus does not include webasto or valeo diesel fired heater. Ideal for lower mainland.
34 Vendors should describe their proposed heating systems including fuel source and flexibility to accommodate different fuel types as requested by local school district. " The use of electric heaters to pre-heat the vehicle cabin is not preferred; however using electric heat to keep the batteries warm is acceptable. Vendors should also describe their proposed system for pre-heating vehicle cabins.	Yes	BYD School bus has an electric PTC (Positive temperature coefficient) heater and an HVAC system to preheat the bus.	No	Type D Electric Bus is equipped with electric heaters and passenger area can heated while charging during pre-check.
35 One (1) heater unit for driver's control area (transit type) - 10 000 BTU min.	Yes		Yes	
36 First Aid kit fire extinguisher flare kit all mounted in overhead compartment.	Yes	Fire extinguisher and flare kit on floor.	Yes	

37 Driver's seat to be deluxe high back air seat fully adjustable - 6-way with lumbar support and fold down arm rests. Air foam rubber filled with heavy duty covering cloth fabric.	Yes		Yes
38 Passenger seats to be seat belt ready 3x3 seating on both sides. Seats to be wall mounted on one side All seat coverings to be HD fire resistant gray vinyl.	No	Blue Vinyl	Yes
39 Pre-wired power and ground thru noise suppression circuit for 2-way radio	Yes	Option	Yes
40 AM/FM/PA radio and CD player	Yes		Yes
41 PA system with six (6) interior and one (1) exterior speakers separately controlled	Yes		Yes
42 Each unit shall be equipped with a Sound Generator that complies with FMVSS and CMVSS 141	Yes		Yes

TRA 24-01 - Supply and Delivery of School Buses - Specification - Base Bus Specifications: Chassis - Type D Electric

Line Item	BYD Canada Company Ltd		Dynamic Specialty Vehicles	
	Submission 1		Submission 1	
Chassis Specifications	Yes/No	Additional Information	Yes/No	Additional Information
1 Chassis and Body Year	Yes	BYD Dreamer Type D 2025	Yes	Blue Bird 2026
2 Propulsion system - vehicle performance include: A sustained speed of 70 kph on a 2.5% grade; and 20 kph on a 20% grade. An ability to accelerate to 20 kilometers per hour (kph) in four seconds; to 40 kph in 10 seconds; 50 kph in 20 seconds and 70 kph in 35 seconds. Expectations are that the school bus shall be cable of a minimum of 200 kilometer range on a single battery charge on route measured with 50% city miles and 50% highway miles. Vehicles should be capable of operating at minus 30 degrees Celsius (-30C) to 35C with limited loss of range (no more than 10% reduction of documented range) in these variable conditions. This range rating must be tested with all normal accessories running in the conditions described including terrain encountered in BC. Describe vehicle performance while fully loaded in terms of maximum operating speed grade-ability and acceleration. Please provide documentation of for verifying submitted vehicle performance claims to meet above performance specifications.	Yes	Some Loss of range at -30C degree 5% while a diesel heater is running. Max speed at 100km/h and gradability up to 19.9 degrees at full load.	Yes	Driving habits duty cycle vehicle weight and accessory load conditions can affect this number. The bus has not been tested with all normal accessories running in the conditions described including terrain encountered in BC. Operating temperatures are recommended to be within -30 – 68 degrees Celsius. The battery thermal management system typically uses less than 10% of usable power to maintain operating conditions. This does not account for cabin heat loads. When maximum cabin heat is activated the system will consume approximately 6% - 20% of usable power. In cold climates it is recommended to have the bus plugged in to a Level 3 DC Fast Charge system to maintain battery temperatures prior to starting routes. In cold climates it is also recommended to store the bus in a climate-controlled building prior to starting routes.
3 Vehicles should have the ability to change the powertrain differential ratio to maximize range performance in mountain routes city routes highway routes or a combination of mountain city and highway routes. Please describe your process for achieving this?	No		Yes	Blue Bird has chosen to use the 5.29 single rear axle ratio as a great compromise for the typical school bus stop and go route whether that is in mountain routes city routes highway routes or any combination of the regional operations. Since Blue Bird School Buses do not use a transmission or a two-speed rear axle we not only keep the overall weight of the school bus lower we do not encounter the additional losses of efficiency that the vehicle would have with the added weight of a transmission. If a transmission and two speed rear axle were to be used it would contribute to a greater loss of efficiency.
4 Air Brakes - Rear drum: 16½" x 8"; Front drum: 16½" x 6" with dust shields. Auto slack adjusters long stroke S cam type brakes. ABS included. Auxiliary Equipment tank right hand remote drain	No	BYD Type D school buses use disc brakes front and rear and do not have remote drainage	Yes	
5 High capacity dry type air cleaner c/w air restriction gauge to be mounted on dash or air intake	Yes		Yes	This vehicle uses an electric motor for its propulsion system and therefore an air cleaner is not required.
6 Regenerative braking to charge batteries must meet all Canadian Motor Vehicle Safety Standards in regards to braking systems	Yes		Yes	Bluebirds regenerative braking system to charge batteries meets all Canadian Motor Vehicle Safety Standards in regards to braking system
7 BATTERY - *200 kwh minimum* - Vendors should describe their proposed energy storage/battery system including the number of battery packs and battery chemistry. " Battery efficiency (kilometers per kWh) " Time (in minutes) to charge batteries from 20% to 100% state of charge on a level 2 charger. " Time (in minutes) to charge batteries from 20% to 80% state of charge on a level 2 charger. " Battery capacity (amps per hour per cell) " Battery storage capacity (kWh) " Total usable battery energy storage capacity (kWh) " Total battery pack C-rate. " Total battery pack E-rate " Battery Cycle Life in number of charge-discharge cycles at a specific depth of discharge (DOD) " Battery thermal management type (describe battery maintenance and operational requirements when vehicle is in use and not in use	Yes	8-pack configuration has 288kW capacity. Battery chemistry is LFP. By using a DC fast charger full charge time at 110kW is 2.5-3 hrs; and an AC full charge time at 19.2kW is 14.5-15 hrs. 288 KWH BATTERY / 280 KM RANGE / 12 YEARS WARRANTY	No	Number of packs: 7 batteries in two packs for a total of 14 batteries Chemistry: Li-NMC-G batteries which is Lithium-Nickel Manganese Cobalt-Graphite Battery efficiency: Will dependent on several factors including driving habits terrain and use of a/c and heaters. Time to charge Level 2 (20%-100%): 400-430 minutes Time to charge Level 2 (20%-80%): 300-330 minutes Battery capacity: 126 Ah Battery storage: 196 kWh Total usable battery storage: 157 kWh C-rate: The charge rate is 1C and the discharge rate is 2C E-rate: This is proprietary and will not be disclosed Battery life cycle: 3000 cycles at 70% depth of charge Battery thermal management type: Blue Birds battery thermal management type is a system of heaters chillers a radiator and fluid pumps design to maintain the optimal operating temperature of the batteries and the main propulsion motor by regulating the temperature of the fluid flowing through them. Temperature sensors monitor the coolant for the batteries and the motor and the VCU uses that information to either activate the heaters to heat the coolant or to activate the chiller to cool the components. Maintenance required for the propulsion batteries is to torque the hardware every 12 months or 20000 miles. Maintenance for the thermal management system is to check the coolant level every 32000 km and change it every five years.

<p>8 Battery Management System. Must be described</p>	<p>Yes</p> <p>Maintain battery at optimal operating temperature with pre-condition option. This will allow users to schedule the pre-condition time to bring the batteries up to optimal temperature before usage. (Uses power battery energy to heat up)</p>	<p>Yes</p> <p>Blue Bird's Battery Management System (BMS) facilitates smart charging by monitoring battery State of Charge (SOC) and other parameters associated with State of Health (SOH) and communicates to the system controller (SCM). The SCM will then determine how much charge should be provided to the battery based on the current state of the battery and control the on-board chargers appropriately. The SCM also communicates the desired charge rate through the CCS1 connector to the off-board charger to ensure proper charge rates are delivered. The BMS monitors SOC and SOH and reports it to SCM. This data is recorded every 10 milliseconds.</p>
<p>9 Front axle - 14 000 lb taper leaf set back. Rear axle - 23 000 lb - performance chart must be supplied Rear axle ratio - Please specify options available Specify turning radius.</p>	<p>No</p> <p>Air front suspension</p>	<p>No</p> <p>Front axle 12000 lb Rear axle is 23500lb 5.29 single rear axle ratio Turning radius curb to curb 35'3"; wall to wall 36'6"</p>
<p>10 Air suspension rear c/w levelling valve(s). Heavy duty shock absorbers.</p>	<p>Yes</p>	<p>Yes</p>
<p>11 Tires - Two (2) -11R22.5 Michelin XZE 2 on front preferred Four (4) -11R 22.5Michelin XDN2 on rear preferred disc wheels 10 stud hub pilot. Please specify your OEM equivalent if different</p>	<p>No</p> <p>Michelin 305/70R22.5 Tires</p>	<p>Yes</p> <p>KUMHO equivalent supplied. Michelin XZE & XDN2 available as an option.</p>
<p>12 On-Board Charging Systems Vendors should describe their preferred charging/discharging systems including EVSE noting that the expectation is that vehicles will be fitted with on board AC (19.2 kW) bidirectional charging/discharging systems that conform to the most recent SAE J1772 standards and/or other relevant standards for V2B bi-directional power flow. The vehicles should also be fitted with DC charge/discharge coupler capable of a sustained maximum of 90kW of power transfer at a maximum of 200 AMPs. The coupler should conform to all current SAE standards. All charging system components shall have CSA certification or provide acceptable documentation. Charging systems shall be capable of operating from -30C to 40C with no more than 10% degradation in performance</p>	<p>Yes</p> <p>The bus is compatible with any CCS1 (For DC) or J1772 standards (for AC) chargers; The maximum charging power for DC is 120 kW at 200 AMPs and for AC is 19.2 kW.</p>	<p>Yes</p> <p>Blue Bird offers a standard CCS1 connector that allows for either Level 2 AC charging or Level 3 DC Fast Charging. For maximum 19.2kW charge rate each Level 2 EVSE must be supplied with single phase 240v 80 amp ac current with a 100 amp fuse. Our bus will fully charge with AC charging from 0-100% in about 8 hours. There are several Level 2 EVSE's available on the market today that meet these charging requirements including the Nuvve PowerPort. For maximum 60kW charge rate each Level 3 DCF station must be supplied with three phase 480VAC 80 amp. A bus will fully charge with DC Fast Charging from 0-100% in about 3 hours. There are several Level 3 EVSE's available on the market today that meet these charging requirements including the Nuvve RES-HD60-V2G. Blue Bird has decided to include bidirectional charging functionality with DC charging at this time due to V2G interconnection requirements of most utilities across North America. AC charging will be unidirectional only. The Nuvve RES-HD60-V2G is the required charging solution for V2G capability to be enabled with our electric bus. Specifications for Nuvve Level 2 and Level 3 chargers attached.</p>
<p>13 Tow hooks front and rear heavy duty bumper.</p>	<p>Yes</p>	<p>Yes</p>
<p>14 Battery solenoid switch to be connected to ignition switch for isolation of all of the switch panel circuitry.</p>	<p>Yes</p>	<p>Yes</p>
<p>15 Data collection for performance and analytical comparisons must be available on a regular basis for both ASTSBC and the purchaser. Training must be provided. *Sample report with minimum requirements can be found in the Documents section.</p>	<p>Yes</p> <p>Telematics (HSM, An American partner platform) box is equipped as a standard configuration, which facilitates customers to monitor the bus for preventive maintenance and location tracking (Cloud web real-time service is an option for quote); Training will be provided.</p>	<p>Yes</p>
<p>16 Engine and body diagnostics software or licensing. Diagnostic Training must be provided to each purchaser</p>	<p>Yes</p>	<p>Yes</p>
<p>17 Supply Driver Training and Orientation to ASTSBC Trainers to supply training for drivers upon bus delivery.</p>	<p>Yes</p>	<p>Yes</p>
<p>18 Service Manual for engine and chassis</p>	<p>Yes</p>	<p>Yes</p>
<p>19 Battery location and weight - please describe</p>	<p>Yes</p> <p>4 packs on each side of the bus. The total battery pack weight is 1600 kg</p>	<p>Yes</p> <p>The high voltage batteries are located under the chassis frame rails between the front and rear axle.</p>