	Dynamic Specialty Vehicles	The Lion Electric Co
Completion Date (Time Period)	days	days
Defined Prices:	days	days
Defined Frieds.		
SECTION TOTAL:	0	0
Combined Prices:		
Separate Prices:		
Alternate Prices:		
Unit Prices:		
Cash Allowances or Other Stipulated Sums:		
Sub Trade List Description:		
Bus Unit Price:		
Type D (80+ Passenger or Maximum Capacity). All		
units and components must meet Federal and		
Provincial regulations and requirements and		
current D250.	451670	371650
Base Bus Specifications: Body:	101070	371000
Full power steering - minimum 18" diameter		
steering wheel Tilt steering column telescopic	Yes	Yes
1. Additional Information		
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	Yes	Yes
2. Additional Information		
Wheel housings to be molded type and fully		
covered All joints to be silicone sealed - including		
sidewalls and perimeter	Yes	Yes
3. Additional Information		
4. Mud flaps Installed on front and on rear wheels		
rubber fenderettes on all four (4) wheel wells	Yes	Yes
4. Additional Information		
5. Exterior paint to meet national school bus		
yellow standard black rub rails light colour		
interior	Yes	Yes
5. Additional Information		
6. Exterior Lettering 6" - (Purchaser name) both		
sides at belt line 4" - Bus # two front corners and		
opposite license plate rear	Yes	Yes
6. Additional Information		
7. Exterior Lettering con't 2" - Capacity GVW		
(Purchaser name) on side panel back of entrance		
door and side panel below driver	Yes	Yes
7. Additional Information		
8. Internal signs over windshield - No Smoking - No		
Standees	Yes	Yes
8. Additional Information		
9. Body fully undercoated for noise and enhanced		
rust protection	Yes	Yes
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	Dynamic Specialty Vehicles	The Lion Electric Co
	Asphalt emulsion undercoating included.	
	Options: Premium Undercoat Sulfonate	
	Enhanced DTM Modified Wax coating.	
	Replaces the standard asphalt emulsion.	
	Provides approx twice the performance in	
	highly corrosive environments where de-	
	icing chemicals are prevalent. \$350	
	Premium Fuel Tank Undercoat-Wax based	
	undercoat over std black powdercoat for	
	the fuel tank. Provides increased	Undercoating for noise and enhanced rust protection
O Blaces describe what is included and autismal	corrosion resistance. Salt spray hours	is a standard feature on all our vehicles and is part of
9. Please describe what is included and optional	increase from 240 to 2000 hrs with this	our enhanced customer experience to ensure a long-
levels of protection available including costs	coating. \$195	lasting anti-corrosion vehicle
10. Crossing arm deactivation switch 10. Additional Information	Yes	Yes
10. Additional infolliation		
11. Tinted windshield wipers dual electric with		
intermittent control Windshield washers with wet		
arm windshield washer tank 2 litres minimum	Yes	Yes
11. Additional Information	103	
12. Split sash side windows tinted	Yes	Yes
12. Additional Information		
12. / Idadicinal information		
13. All emergency exits to be vandal lock equipped	Yes	No
		All emergency doors to be vandal locked other
13. Additional Information		equipped with buzzers
14. Two (2) roof emergency escape hatches	Yes	Yes
14. Additional Information	included	Standard
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
AS A LINE OF THE STATE OF THE S	Air control included electric option	
15. Additional Information	available.	
16. Entrance steps covered white trimmed with	Vos	Vos
assist rails right and left side	Yes	Yes
16. Additional Information17. Body insulation including walls ceiling and roof		
bows - to be fibreglass or equivalent Dust		
intrusion package on underside of bus up to floor		
intrusion package on underside of bus up to floor joint	Yes	Vos
17. Additional Information	163	Yes
20. Power to accessory side of ignition	Yes	Yes
20. Additional Information	103	
21. Circuit breakers	Yes	Yes
21. Additional Information		
21.7 dartional information		
22. Instruments: Dash mounted hr meter Battery		
Monitor speedometer in kmh c/w odometer in km		
Range (2) air pressure gauges if air equipped	Yes	Yes
	1.00	1.00

	Dynamic Specialty Vehicles	The Lion Electric Co
	Please refer to attached EV Instrument	
	cluster.pdf for diagram and details.	
	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	
22. Please describe Instrumentation and dash	Message Display Center Control Panel	
cluster provided	Center Warning Bank	Please refer to narrative.
23. Instrument panel shall be illuminated and	Jenner Warming Barm	- rease refer to harranter
include text light indicators monitoring both the		
amber and red light warning activations; Icruise		
control activation cruise control	Yes	Yes
	Please refer to attached EV Instrument	
23. Additional Information	cluster.pdf for diagram and details.	No cruise control available for now
24. 12 volt power point in switch panel	Yes	Yes
24. Additional Information		
25. Back-up alarm	Yes	Yes
25. Additional Information	103	
26. Two (2) LED strobing stop arms - mounted		
front and rear driver's side with wind guards.	Yes	Yes
26. Additional Information	res	res
27. Driver alert system installed on battery door	No	Yes
27. Additional Information	INO I	Childcheckmate is standard
28. Front headlights HD all exterior lights to be		Ciliderieckinate is standard
LED cluster lights: front and rear - six (6) in total		
LED 8 light system non-sequential with master	Voc	Vaa
switch and visors	Yes	Yes
28. Additional Information		
29. Two (2) rows of interior lights front and rear	.,	
half on separate dimmer switches	Yes	Yes
29. Additional Information	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	l v
30. One (1) driver's light on separate switch	Yes	Yes
30. Additional Information		
31. Interior rear view mirror and sun shield.		
Minimum 6" to maximum 10" x 30" with no	V	V
obstruction of windshield	Yes	Yes
31. Additional Information		
22. Right and left side primary and convey		
32. Right and left side primary and convex mirrors;		
remote adjustable Exterior convex crossovers self-	V ₀	Vac
defrosting mounted on right and left sides	Yes	Yes
32. Additional Information		
33. 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		l
motors.	Yes	Yes
33. Additional Information		
34. Defroster approximately 90 000 BTU capable		
of clearing front windows	Yes	Yes
34. Additional Information		

	Dynamic Specialty Vehicles	The Lion Electric Co
35.School buses must be equipped with heating	Dynamic Specialty Verneies	The Lion Licetine Co
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		
1		
the interior cabin temperate on vehicle range		
especially when outside temperature conditions are very cold.	Voc	Vos
are very cold.	Yes	Yes
25 Additional Information	Please refer to attached Type D EV Bus	Diagram of an harmonic a
35. Additional Information	Spec Response.pdf	Please refer to narrative.
36. 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	Yes
	Please refer to attached Type D EV Bus	
36. Additional Information	Spec Response.pdf	Please refer to narrative.
37. One (1) heater unit for driver's control area		
(transit type) - 10 000 BTU min.	Yes	Yes
	Yes a dedicated 12 000 BTU driver®s	
37. Additional Information	heater on RE.	
38. First Aid kit fire extinguisher flare kit all		
mounted in overhead compartment.	Yes	Yes
38. Additional Information		
39. 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
39. Additional Information		
40. 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.	Yes	Yes
40. Additional Information	l es	163
41. Pre-wired power and ground thru noise	Vas	Vos
suppression circuit for 2-way radio 41. Additional Information	Yes	Yes
	Voc.	Vac
42. AM/FM/PA radio and CD player	Yes	Yes
42. Additional Information		
43. PA system with six (6) interior and one (1)	l.,	l.,
exterior speakers separately controlled	Yes	Yes
43. Additional Information		
44. Each unit shall be equipped with a Sound		
Generator that complies with FMVSS and CMVSS		
141	No	Yes
		Lion has added a sound generator outside the bus to
		ensure that students parents and technicians hear
		the bus when it is driving. In fact the bus is so quiet
		that it could easily be on without anyone knowing
		which could be dangerous in school bus yards or at
44. Additional Information	CMVSS 141 compliance is in progress	schools.
Base Bus Specifications: Chassis:		
Chassis and Body Year	Blue Bird 2021	2021-2022
	i.	

	Dynamic Specialty Vehicles	The Lion Electric Co
	bynamic specialty venicles	THE LIOH LIECUIC CO
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.	Yes	Yes
2. 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	Please refer to attached Type D EV Bus	
specifications.	Spec Response.pdf	Please refer to narrative.
3. Vehicles should have the ability to change the		
powertrain deferential 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?	Yes	Yes
ioi deimering tiner		It is possible to adjust the speed vs the torque on our
		vehicles to adapt to hilly vs highway school districts.
		We have been able to perform this adjustement across
		North America to optimize the performance on our
3. Additional Information	Fixed differential 25.29 drive axle ratio	vehicles.
3. Additional information	Fixed differential £5.29 drive axie rado	venicles.
4 Air Brokes Beer drums 161/1 v 01. Freet drums		
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.	V	No.
Auxiliary Equipment tank right hand remote drain	Yes	Yes
4. Additional Information		Standard
5. High capacity dry type air cleaner c/w air		
restriction gauge to be mounted on dash or air		
intake	Yes	Yes
5. Additional Information		Underhood gauge
6. Regenerative braking to charge batteries must		
meet all Canadian Motor Vehicle Safety Standards		
in regards to braking systems	Yes	Yes
6. Additional Information		

	Dynamic Specialty Vehicles	The Lion Electric Co
9. BATTERY - 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	Yes
9. Additional Information	Please refer to attached Type D EV Bus Spec Response.pdf	Please refer to narrative.
10. Battery Management System	Yes	Yes
10. Battery Management System	Please refer to attached Type D EV Bus	163
10. Must be described	Spec Response.pdf	Please refer to narrative.
11. Front axle - 14 000 lb taper leaf set back. Rear	Spec Response.pur	rease refer to narrative.
axle - 23 000 lb - performance chart must be		
supplied Rear axle ratio - Please specify options		
available Specify turning radius.	Yes	Yes
8		
	Rear axle23 000lb Ratio 5.29 Turn radius	
11. Additional Information	W-W:37ஹ11.5m C-C:33ஹ10.1m	55 degrees wheelcut
12. Air suspension rear c/w levelling valve(s).		
Heavy duty shock absorbers.	Yes	Yes
12. Additional Information		
13.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	Yes	Yes
13. Additional Information		
14. 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 Level II		
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	No	Yes
	Please refer to attached Type D EV Bus	
14. Additional Information	Spec Response.pdf	Please refer to narrative.

	Dynamic Specialty Vehicles	The Lion Electric Co
15. Tow hooks front and rear heavy duty bumper.	Yes	Yes
15. Additional Information		
16. Battery solenoid switch to be connected to		
ignition switch for isolation of all of the switch		
panel circuitry.	Yes	Yes
16. Additional Information		
17. Data collection for performance and analytical		
comparisons must be available on a regular basis		
for both ASTSBC and the purchaser. Training must		
be provided	Yes	Yes
17. Additional Information	Yes this available. Training is provided.	Please refer to narrative.
20. Engine and body diagnostics software or		
licensing. Diagnostic Training must be provided to		
each purchaser	Yes	Yes
20.41199		Lion does not have additional softwares to purchase to
20. Additional Information	Ves	diagnose the vehicle. Diagnostics is included
21. Service Manual for engine and chassis 21. Additional Information	Yes	Yes
21. Additional information		
19. Dottory location and weight inlease describe	Voc	Voc
18. Battery location and weight - please describe	Yes	Yes
	Batteries are located between the frame	Our batteries are located between the frame rail and
18. Additional Information	rails and weigh a total of 3400 pounds.	weigh approximately 612 pounds for 42 kWh.
Options Prices:	rails and weigh a total of 5400 pounds.	weigh approximately 012 pounds for 42 kwii.
1 - One (1) additional spare tire mounted.	Additional	Additional
1 - If Additional please indicate the Price	779	
2 - Air horn roof mounted.	Additional	Additional
2 - If Additional please indicate the Price	160	
3 - Current Gatekeeper digital video system		
supplied and installed with 2 cameras.	Additional	Additional
3 - If Additional please indicate the Price	1838	3000
4 - Current Seon digital video system supplied and		
installed with 2 cameras.	Additional	Additional
4 - If Additional please indicate Price	1989	3000
5 - Driver's storage compartment overhead left		
side.	Additional	Included
5 - If Additional please indicate Price	133	
6 - Installed Zonar current Fleet GPS Tracking and		
Vehicle Diagnostics System with EVIR hand held		
device and all accessories. Include pricing for each		
hand held device.	Additional	Additional
6 - If Additional please indicate Price	895	144.89
7 - Zonar current Fleet GPS Tracking and Vehicle		
Diagnostics System installed.	Additional	Additional
7 - If Additional please indicate Price	616	144.89
8 - Drivers Clipboard Storage accessible from		
drivers seat.	Additional	Included
8 - If Additional please indicate Price	16	
9 - Traction control through ABS.	Additional	Included
9 - If Additional please indicate Price	469	
10 - Driver controlled differential lock.	Additional	Included
10 - If Additional please indicate Price	928	
11 - Limited slip rear axle.	Not Available	Included
11 - If Additional please indicate Price		
12 - Automatic greasers minimum of 12 grease	A data: - u - d	In about a d
points.	Additional	Included
12 - If Additional please indicate Price	3450	
13 - Acoustic ceiling panels throughout.	Additional	Additional
13 - If Additional please indicate Price	651	1200

	Dynamic Specialty Vehicles	The Lion Electric Co
14 - Stop Arm Camera System	Additional	Additional
14 - Stop Arm Camera System 14 - If Additional please indicate Price	480	
·	480	330
15 - Interior mirror - 10" x 30" mirror adjustable	A ddiaional	A delikion of
no windshield obstruction.	Additional	Additional
15 - If Additional please indicate Price	21	50
16 - Recommended Level 2 charging system for		
your bus	Included	Additional
16 - If Additional please indicate Price		3000
17 - Emergency roof hatch vent with exhaust fan.	Additional	Included
17 - If Additional please indicate Price		
18 - Wheelchair lift specify OEM. Supply and		
install wheelchair lift with one chair position across		
from lift inclusive of tie down system.	Additional	Additional
18 - If Additional please indicate Price	8393	11995
19 - Track seating per wheelchair space.	Additional	Not Available
19 - If Additional please indicate Price	885	
20 - Tinted windows throughout.	Included	Included
20 - If Additional please indicate Price		
21 - Power and Range upgrade -Price for additional		
incremental ranges increased and decreased	Not Available	Not Available
21 - If Additional please indicate Price		
22 - Pedestrian Detection System	Additional	Additional
22 - If Additional please indicate Price	2450	
24 - Integrated child seats/per seat. Attach	2.130	3030
information details.	Additional	Additional
24 - If Additional please indicate Price	694	
•	Included	Included
25 - Telescopic steering.	included	Included
25 - If Additional please indicate Price		
26 - Hydraulic brake school bus with air seat and		N A 11.11
air suspension.	Included	Not Available
26 - If Additional please indicate Price		
27 - Hydraulic brake school bus (no air		
components).	Included	Not Available
27 - If Additional please indicate Price		
28 - Adjustable Foot Pedals	Additional	Not Available
28 - If Additional please indicate Price	1067	
29 - Underbody full thru luggage compartments	Additional	Not Available
29 - If Additional please indicate Price	5065	
30 - In-service training for chassis and body		
maintenance procedures at Purchaser's facility	Included	Included
30 - If Additional please indicate Price		
31 - Laptop & connectors with applicable		
programming & software or licensing including		
training for each style of bus supplied. ABS		
software	Additional	Included
31 - If Additional please indicate Price	2750	
33 - exterior entry door handle	Additional	Additional
33 - If Additional please indicate Price	35	
34 - Extended Stop Arm	Additional	Additional
34 - If Additional please indicate Price	6435	
35- Air operated disc brakes		
·	Additional	Included
35 - If Additional please indicate Price	2389	
36 - Vendor added option		Please refer to narrative.
36 - Please indicate Price		
37 - Vendor added option		
37 - Please indicate Price		
Additional information:		