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THE PROCUREMENT OF 30-FOOT, 40-FOOT AND 60-FOOT LOW FLOOR, DIESEL HYBRID COACHES

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Technical Characteristics - Items 3A through 3K as indicated below in Section 3 <u>for 35' and 40' buses</u>		
3-A	External and chassis dimensions and layouts	1) Supply the following exterior views: left side, right side, front, rear, and roof. 2) Supply a turning envelope diagram, including rear corner swing out. 3) Supply dimensional diagram of hoisting, jacking and towing points. 4) Supply a right side and top view layout of the chassis, showing the locations of major sub-systems. 5) Supply installation and detail design drawings for the front and rear suspensions, propulsion system, and driveline.



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3-B	Internal Dimensions and Layout	<p>1) Supply plan in left and right elevations of proposed seating, stanchion and handrail layout. The seat spacing, aisles, front platform, and tie-down areas should be dimensioned. Supply aisle width between front and rear wheelhouses, hip to knee distance for all forward-facing seating, correct stepwell dimensions, location of modesty panels and location of driver's wrap-around barrier and driver's seat. Note locations of any floor slopes and the amount of slope in percent grade. It is strongly preferred that the plan view and left and right elevations are shown on an 11 x 17 inch drawing.</p> <p>2) Supply a dimensioned plan view of wheelchair tie down locations and the turning diagram of the ADA mobility aid device moving from the raised ramp through the front platform area to the area between the front wheelhouses.</p> <p>3) Provide a drawing of ramp showing width at the platform, length between the raised barriers, height of the barriers, slope of the ramp (kneeled), and total deployed distance from the side of the bus.</p> <p>4) Provide a drawing clearly showing the wheelchair maneuvering room in as much detail as shown in Attachment 11, Vol. 2. See also Section 3.7.5.1, Maneuvering Room of the Technical Specifications – Vol. 2.</p>
3-C	Overall Vehicle Requirements	<p>1) Provide information on how the vehicle will be compliant with California Code of Regulations, Title 13, Section 1956.1 at the time of delivery to SFMTA.</p> <p>2) Discuss design features that address the issue of wheelchair access in general.</p> <p>3) What steps have been taken to keep the weight on the axles as low as possible?</p> <p>4) Provide information on the weight distribution between the front and rear axles.</p> <p>5) How are reflections in the windshield effectively eliminated for the driver? The explanation must include detailed information on interior reflections, night glare etc.</p> <p>6) Discuss measures taken to minimize interior and exterior noise; note specific measures used to quiet the engine, motor, and other propulsion sub-systems; if the bus will be noticeably quieter than specified, supply test results on a nearly identical bus and the testing procedures for evaluation by SFMTA.</p> <p>7) Provide data on the expected sound level in the passenger area when bus is operating including noise from ventilating fans.</p> <p>8) CARB certification – Proof or plan.</p> <p>9) Wheelchair Ramp.</p>



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3-D	Performance Curves	1) Supply coach performance curves and data, indicating time, distance, speed, acceleration, complete engine and motor usage (second by second) and energy storage system state of charge (during the entire set of performance runs) for a coach at the load referenced in Section 1.3 of the Technical Specification-Volume 2 for 0%, 5%, 10% and 16% grades. 2) Supply coach performance curves and data for the speed reduction operation of the regenerative braking system for the grades and load required in D.1 above. Include specific second by second data showing regenerative electrical power captured. 3) Discuss how the gear ratios (motor, rear axle, and any other gear ratio transfer device) have been selected for optimal performance in San Francisco and designed for maximum life.
3-E	Vehicle Structure	1) Describe the type of bus structure used. 2) What materials will be used to construct the bus including chassis or frame, side sheets, roof sheets and end caps. 3) Describe where riveting, arc welding and resistance welding will be used in the bus construction. 4) What is used for interior paneling and how is it retained? 5) Show how the design of the wheelwells meets specification requirements. Provide plan and side views of all wheelwells. 6) Describe the thermal and sound insulation used in the roof and sidewalls. 7) How does the design of the bus and its components preclude resonant vibrations? 8) Explain how the design of the bus meets the requirements for fatigue life? 9) If fiberglass wheel housing is proposed, explain how they are shielded from heat generated by the braking systems. 10) Explain how the requirements for corrosion resistance are met. 11) Describe preparations for painting, all filler and primers used and topcoat application. 12) Where is the radio compartment and, if it is not inside, why not? 13) Describe provisions and methods for towing and lifting the bus from either end. Describe hoisting and jacking points.



NEW FLYER

Proposal Section	Title	Bid Submission Requirements
3-F	Furnishings	<ol style="list-style-type: none"> 1) How are the door edges sealed to keep water and drafts out of the bus? 2) Describe the thickness and quality of all windows glass used. 3) Explain how window hardware is non-corroding. 4) Describe accessibility of the windshield wiper motor and washer equipment. 5) Describe the design of the interior lighting system, including compatibility of ballasts and lamps. 6) Which exterior lamps do you prefer to use and why? 7) Where is the rear route number sign located and how is maintenance accessibility accomplished? 8) Describe outside access panels, including opening assists, latches and corrosion proof features. 9) Describe all floor hatches, their latches and the treatment of the opening in the floor? 10) Describe the design effort to ensure maximum readability of the LED signs by intending passengers. Show how a 60 inch (152.4 cm) tall person can easily read the front and side signs while standing 36 inches (91.4 cm) away from the bus at various angles to the vertical centerline of the bus. 11) Describe the details of the passenger signal system. 12) To what extent are flush mounted exterior lights utilized, and where?
3-G	Driver's Station and Controls	<ol style="list-style-type: none"> 1) Detail the design that has gone into making the driver's station a safe, comfortable place to work with controls within easy reach. Detail where hybrid-electric system controls differ from conventional bus controls. 2) Provide fully dimensioned plan and elevation drawings of the driver's station, meeting SFMTA's requirements, that you plan to supply; include the barrier, seat, steering column, pedals, dashboard and side console, windows, visors, and shades. 3) Supply a drawing of the driver's window. 4) How will the exterior and interior mirrors proposed meet the specification requirements? 5) Describe locations for mounting radio equipment in the driver's station.



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3-H	Chassis	<ol style="list-style-type: none">1) How are all engine accessories driven?2) Describe accessibility of engine accessories and routinely serviced engine components.3) Describe the cooling system including accessibility for radiator, charge air and oil cooler cleaning.4) Describe all propulsion system removal procedures (engine, generator, motor, batteries, etc.).5) What type of air actuated disc brake system is supplied?6) Describe the operation of the parking and emergency brake and the hill holder7) Describe the propulsion system mounting and the methods and materials used to isolate vibrations from the propulsion system.8) Describe the hydraulic pumps and their transit experience.9) How will the heating and ventilation system meet the specification requirements?10) What are the components of the heating and ventilating system and how have they been designed for long operation and low maintenance? 11) Describe the driver's heater and demister. 12) Describe the design of the ramp and its integration into the bus structure 13) Describe the driver's heater and demister.



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Proposal Section	Title	Bid Submission Requirements
3-H		<p>14) Describe the design of the ramp and its integration into the bus structure NOTE: SFMTA has operational and liability concerns with ramp angles during the wheelchair loading & unloading process due to the high number of stop locations in the service area without curbs. The proposer needs to address the ramp angle and how it can be minimized to reduce the chances of wheelchair rollback / roll over.</p> <p>16) Describe the vehicle maximum load allowance.</p> <p>17) Supply component manufacturers' information on required lubrication, fuel and coolant products for the following:</p> <ul style="list-style-type: none">a. Engine - oil, fuel, coolantb. Motor - lubrication and coolantc. Generator – lubrication and coolant systemd. Batteries or capacitors – coolant systeme. Differential - oilf. Power steering - oilg. Lift/ramp - Lubricanth. Chassis - greasei. Front wheel bearings - lubrication



NEW FLYER

Proposal Section	Title	Bid Submission Requirements
3-I	Electrical	<p>1) Describe in detail the low voltage wiring system including wire type, terminations, terminal boards, multiple pin connectors, shielding for RFI/EMI, wire numbering methods, overload protection, and insulation color codes.</p> <p>2) Describe in detail the high voltage wiring system (with inclusions such as in item 1, above) with special emphasis on safety features. Specifically detail any operational or maintenance activity that could pose a higher than normal safety risk.</p> <p>3) Describe the operation of the propulsion and regenerative braking system.</p> <p>4) Describe in detail the energy storage system.</p> <p>5) Describe how the overall electrical system has been designed to be modular, reliable, easily maintainable, and safe to operate.</p> <p>6) Describe in detail the function of the multiplex wiring system.</p> <p>7) Explain how electrical and electronic noise has been minimized.</p> <p>8) Describe any components that will not meet the illustrated parts manual requirements in Section 9.2.3 of the Technical Specifications-Volume 2.</p>
3-I		<p>9) Explain how the bus electric, electrical, and control systems are diagnosed and explain any self-diagnostic capability.</p>



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3-J	Materials	<ol style="list-style-type: none"> 1) Describe any material, which could produce toxic smoke or gases during collision repair. 2) Describe your experience in supplying materials, which meet the requirements of Section 1.15 and 7.1 of the Technical Specifications-Volume 2. 3) Are you proposing any materials, which do not meet the requirements of Section 7.1.1, Hazardous Materials, of the Technical Specifications-Volume 2? If so explain why. 4) Are you proposing any materials, which do not meet the requirements of Section 7.1.2, Consumables, of the Technical Specifications-Volume 2? If so explain why. 5) How have electrical wire and cable insulation been selected to minimize fire and toxic smoke hazards?
3-K	K. Engine	<ol style="list-style-type: none"> 1) Provide a description of the engine offered in your proposal. 2) Provide technical data and other supporting documentation for engine performance with emphasis on hybrid system integration. 3) Provide technical data and other supporting documentation to demonstrate the performance of the engine in the following areas: emissions (CARB certification), audible noise, vibration, and reliability. 4) Explain any engine recalls or re-design performed by the engine manufacturer within the last five years. 5) Provide a summary of current or planned transit applications for the engine. If current transit use is limited, provide a summary of current usage outside the transit industry. 6) Describe any problems the engine has experienced and how they were handled. 7) Describe how the engine system will comply with anticipated laws regulating the amount of time an engine idles.



NEW FLYER

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<p>3</p> <p>Technical Characteristics - Items 3A through 3K as indicated below in Section 3 for <u>60' buses</u></p>		
<p>3-A</p>	<p>External and chassis dimensions and layouts</p>	<ol style="list-style-type: none"> 1) Supply the following exterior views: left side, right side, front, rear, and roof. 2) Supply a turning envelope diagram, including rear corner swing out. 3) Supply dimensional diagram of hoisting, jacking and towing points. 4) Supply a right side and top view layout of the chassis, showing the locations of major sub-systems. 5) Supply installation and detail design drawings for the front and rear suspensions, propulsion system, and driveline.
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4. CERTIFICATION, TEST RESULTS, DISCLOSURE, AND DEMONSTRATION		



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Proposal Section	Title	Bid Submission Requirements
4-A	A. CARB Certification	Supply detailed documentation on compliance with California Code of Regulations, Title 13, section 1956.1. This should include a detailed certification plan (1-party or 2-party certification), including recent testing and emissions data supporting the plan(s). CARB Executive Orders certifying the propulsion systems should also be provided to SFMTA on vehicle delivery (including prototype).
4-B	B. Strength Requirement	Supply certification that the proposed vehicle meets all of the requirements of the baseline advance design coach strength requirements in Section 2.1 of the Technical Specifications-Volume 2. The certification must state the dates of compliance testing. SFMTA will consider these requirements satisfied if the Components that have been modified or added since that date have been tested and found to comply with those requirements.
4-C	C. Altoona Test Results	Supply a copy of the test report if the bus being proposed is identical or basically similar to a bus that has been tested in the FTA test program (ref: 49 U.S.C. 5323(c); 49 CFR Part 665. Supply a list of all coaches manufactured by the Proposer that have been tested at Altoona or are presently undergoing testing.
4-D	D. Structural Defect and Correction Disclosure	Any Proposer whose bus has been involved in a structurally related fleet defect (failures requiring replacement, repairs, retrofitting or design revisions on 10% or more of any bus order) at any transit property in the United States or outside of the US in the last five years shall submit the following information: a description of the failure; the results of a detailed investigation of the failure; a detailed structural analysis; and repair or re-design information, including any necessary finite element analysis of the complete structure to eliminate any defect on any part of the structure. All failures involving basic body structure, axles, and suspension are considered structurally related failures for the purposes of this paragraph. Any investigations of such failures and any such structural analysis must have been completed by a reputable, independent transit industry consultant whose credentials are acceptable to SFMTA. The analysis shall not have been limited to the finite element modeling but shall have been confirmed by actual track testing with suitable time concentration to prove the capability of the modified structure to perform for 600,000 miles without further failure. Any engineering reports submitted to SFMTA shall be detailed and must include proof of accuracy of loads and other operating conditions.
E. Demonstration Bus		



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Proposal Section	Title	Bid Submission Requirements
4-E	E. Demonstration Bus	Please provide a recent production bus, if requested by City, for inspection by SFMTA in San Francisco for 10 working days. The bus would not be placed in revenue service. The bus should be the length and width and have the propulsion system, energy storage system, rear axle, and under body clearance configuration being proposed. It is strongly preferred that the engine, rear axle ratio and ramp be as specified. The demonstrator bus would be evaluated for maintenance accessibility, manufacturing and assembly quality control, drivability, wiring and any other relevant features that can be determined from a bus built for another transit property. SFMTA may also request a performance test of the bus, consisting of an 85-passenger equivalent load on grades up to 21%. Proposers should include a one-page handout comparing bus features on the bus proposed to SFMTA with the corresponding bus features on the demonstration bus. If the City requests the demonstration bus, the bus should be able to negotiate all San Francisco bus routes, with only the tires making contact with the ground.
5. REPAIR, SUPPORT AND WARRANTY INFORMATION		
5-A	A. Mean Repair Times	Identification of the mean repair times for all routine maintenance activities, including preventative maintenance (P.M.) inspections, brake relining, small component replacement, and all other frequently required maintenance tasks.
5-B	B. Field Service Support	Supply a detailed description of the Proposer's field service and support network including Hybrid system support to be provided under this Contract. Include names, phone numbers, locations and size of territory. The support described in Section 10.1.6 of the Technical Specifications-Volume 2 is a minimum; describe any additional service representative support to which the Proposer is willing to commit.
5-C	C. Parts Supply System	A description of the parts supply system for the bus, including locations of parts warehouses, percentage of parts routinely stocked in the U.S., and average time between receipt of parts order and shipment of order. Describe your parts ordering procedure, including any "coach down" or emergency procedures and the availability of parts storage locally during the warranty period. Are bar coded parts available now? If not, when?
5-D	D. Warranty Processing System	A description of the Proposer's warranty processing system including a sample claim form acceptable to the Proposer.
6. MANAGEMENT APPROACH		
This section of the proposal shall include the management approach and shall contain as a minimum the information indicated below.		
6-A	A. Organization	Provide a proposed organizational chart showing key individuals, including the project manager and their authority and responsibility.



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6-B	B. Schedules	<p>The baseline CPM schedule shall provide design, prototype, and production coach schedules showing the key milestones listed in the following sections:</p> <p>1) Section 7 (Payments), of Sample, Agreement, (Section V, Vol. 1)</p> <p>2) Section 67 (Deliveries), of Sample Agreement (Section V, Vol. 1)</p> <p>3) Section 13 (Delivery Schedule), of Technical Specifications)Vol. 2)</p> <p>The baseline CPM shall be formatted as a bar chart by week, beginning with Notice to Proceed and ending with delivery of the last bus. Include SFMTA review periods for submittals, prototype testing, and acceptance testing. The sheet shall be no larger than 11 inches □ 17 inches.</p>
6-C	C. Approach to Work	Provide a description of where and how the work will be carried out. Provide a description that will describe the manner in which the three types of coaches will be coordinated from design review through final coach delivery.
7. TECHNICAL PROPOSAL WORKSHEET, FOLLOW-UP SERVICE WORKSHEET, AND DELIVERY SCHEDULE WORKSHEET		
7	TECHNICAL PROPOSAL WORKSHEET	The Technical Proposal Worksheet, Follow-up Service Worksheet, and Delivery Schedule Worksheet included in Appendix B-Volume 1 RFP shall be completed in their entirety.
8. PAST EXPERIENCE		
This section of the proposal shall describe the relevant experience of the Proposer in the manufacture of 30-ft, 40-ft and 60-ft Low Floor Hybrid-Electric Diesel Coaches. Proposers provide the following information:		
8-A	PAST EXPERIENCE	A. the type of ownership, number of years the firm has been in business under the present business name (and any other prior names) and the number of years of experience in manufacturing Hybrid-Electric Diesel Coaches;
8-B	PAST EXPERIENCE	B. List all new transit coach contracts for the past five years, including customer, type of vehicle and scope of work, quantity, major vendors, brief description of the vehicle (dimensions, capacities, features, etc.), contractual delivery schedule, actual delivery schedule, contractual price and final price;



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8-C	PAST EXPERIENCE	C. Audited financial statements for the last three years, as well as Dunn & Bradstreet ratings and any other rating received by rating agencies ;
8-D	PAST EXPERIENCE	D. A listing of all of Proposer's projects during the last 10 years where the Proposer was terminated for unsatisfactory performance, the Proposer's work was the subject of claims or litigation, or the Proposer was required to pay liquidated damages. For each, include a brief statement describing the circumstances and provide the name of a customer contact with a telephone number;
9. REFERENCES		
The Proposer shall provide five customer references to demonstrate that similar work has been successfully performed in the past. Each referenced project shall have:		
9	REFERENCES	A. Customer's name, address, and telephone number of a current client employee who is familiar with the Proposer's work; B. If the customer is overseas, an employee who can speak English shall be provided as the reference.
10. QUALITY ASSURANCE		
The Proposer shall provide the following quality assurance documentation:		



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10	QUALITY ASSURANCE	<p>A. Recent quality assurance program plan and ISO 9000 certification status;</p> <p>B. List of internal quality assurance documents and excerpts of relevant sections;</p> <p>C. Quality assurance documents and excerpts relevant to evaluation of subcontractors and/or sub-suppliers;</p> <p>D. Forms used on the production line to record and track quality problems.</p> <p>In addition, provide answers to the following:</p> <p>E. The vehicles shall be designed to meet the service goal for a Mean Distance Between Failures (MDBF) of 10,000 miles. Explain how the 10,000 miles between failures can realistically be reached.</p> <p>F. Describe in-plant quality assurance organization and procedures.</p> <p>G. Describe how welders in the bus assembly plant are certified.</p> <p>H. Describe the testing program to ensure quality welds.</p> <p>I. Detail how any off-site welding is inspected and tested.</p> <p>J. Describe the coach water tightness test method and procedure.</p>
<p>11. TRAINING AND PUBLICATIONS</p> <p>For the contract deliverables listed below, the Proposer shall provide the following information:</p>		
11-A	TRAINING	Provide a brief description of your training program plan based upon the training section (Section 9.1 of the Technical Specifications-Vol. 2). Include a brief description of what will be provided for the Interactive Multimedia Training as described in Section 9.1.10 of the Technical Specifications-Vol. 2.
11-B	Maintenance and Operations Manuals	Provide a brief description of the manuals and the format used based upon Section 9.2 of the Technical Specifications-Volume 2. Include a brief description of what will be provided for the computerized maintenance management system as described in Section 9.2.9 of the Technical Specifications-Volume 2. Include excerpts from current manuals to give SFMTA an indication of your capabilities. Supply a proposed delivery schedule, keyed to bus deliveries, for all manuals. Describe how manuals and their updates will be conveyed to SFMTA through on-line capability.



NEW FLYER

Proposal Section	Title	Bid Submission Requirements
12. WHOLE LIFE CYCLE COSTS		
12	WHOLE LIFE CYCLE COSTS	Describe the Proposer's approach to providing SFMTA the best benefit in whole life cycle costs for the Diesel Hybrid Buses. Include Proposer's experience with whole life cycle costing in the explanation. Projected costs shall be included in a Whole Life Cycle Cost Worksheet provided by the proposer.
Technical Specification Exceptions		
13	Technical Specification Exceptions	Items 13A through 13E as indicated below in Section 13
Proposed Equals		
14	Proposed Equals	Items 14A through 14E as indicated below in Section 14