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| OSPI Logo  **2018-19** |  |  | **PART I** |
|  | **Specification**  **TYPE D—84 PASSENGER, REAR ENGINE**  **Use this document to bid both non-lift and lift buses for 61 – 84 capacity.** | Vendor: Harlow's Bus Sales |
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| **ITEM** | **SPECIFICATIONS**  Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | |
| Seating Capacity | 84 passenger maximum design capacity seated for 78 passenger. | | Capacity w/o lift 78 | |
| Capacity w/lift 60+1 | |
| Alternator | 240 amp minimum. Lift-equipped or air-conditioned. Manufacturer recommended capacity. | | Mfr. Leece-Neville | |
| Amps output w/o lift or A.C. 240  Amps output w/lift or A.C. 325 | |
| Auxiliary Fans | 2 fans, 6” maximum, mounted to right and left windshield and service door. | | Mfr. Bergstrom | |
| Axle—Front | 13,200 lb. minimum total suspension GVWR. | | Mfr. Meritor | |
| Capacity 14,000 | |
| Axle—Rear | 23,000 lb. minimum total suspension GVWR. | | Mfr. Dana Spicer | |
| Capacity 23,000 | |
| Axle Oil Seals | Front and rear oil bath. | | Mfr. Stemco Voyager | |
| Axle Ratio | Must comply with power and gradeability formula. Refer to Washington State School Bus Specifications Manual. | | Ratio 5.29 | |
| Back-up Lights | All required backup lights to be LED (Light Emitting Diode). Refer to Washington State School Bus Specification’s Manual. | | Round:  Diameter 7 Inch  Other:  Square inches | |
| Battery(ies) | 1400 CCA 12 volt to be mounted in body battery compartment. | | Number of batteries 2 | |
| CCA 1900 | |
| Battery Compartment | Battery storage tray must be large enough to accommodate batteries as specified in chassis section. | | Swing out  Roll out | |
| Brakes | Air: Drum or Disc. If Drum, minimum 16.5” x 6” front, minimum 16.5” x 8” rear. Refer to Washington State School Bus Specifications Manual. | | Disc Front  Rear | |
| Drum Front  Rear | |
| Size Front 16.5x6 Rear 16.5x8 | |
| Door, Service | Power operated. | | Folding  Other  Roll out | |
| Split, Outward opening | |
| Driver’s Seat | Suspension type, 6-way adjustable, with lumbar adjustment. Cloth panel covers. | | Mfr. National | |

PART I (cont.)

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|  |  | | | | **Specification**  **TYPE D—84 PASSENGER, REAR ENGINE**  **Use this document to bid both non-lift and lift buses for 61 – 84 capacity.** | | | Vendor: Harlow's Bus Sales | |
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| **ITEM** | | | **SPECIFICATIONS**  Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | | | |
| Engine | | | Diesel—280 H.P. minimum, located in the rear. | | | Engine mfr. Cummins | | | |
| Model or liters L9 | | | |
| Net torque 860 @ 1300 R.P.M | | | |
| Net H.P. 300 @ 2000 R.P.M | | | |
| Engine Heater | | | Engine manufacturer’s recommended in-block heater. | | | Watts 1000 | | | Volts 120 |
| Mfr. Phillips | | | |
| Engine Temperature | | | To be controlled electronically, by fan clutch/drive, or shutters. | | | Mfr. Horton | | | Electronic |
| Fan clutch | | | Shutters |
| Fuel Tank | | | 100 gallon minimum. | | | Capacity 105 Gallons | | | |
| Heaters | | | | Minimum of 3 heaters; 1 front, 1 center, 1 rear. Shutoff valves at engine for all heaters. Two-speed motors. Must include recirculating pump. | | Front B.T.U. 90,000 | | | |
| Center B.T.U. 84,500 | | | |
| Rear B.T.U. 84,500 | | | |
| Total B.T.U. 259,000 | | | |
| Lights | | | | LED (Light Emitting Diode). Includes Clearance Lights, Stop Lights–7”, Tail Lights, Turn Signals, Eight-Light System, and Dome-Light System. | | Check if as specified  If not, explain | | | |
| P.A. System | | | | AM/FM/PA radio with 4 interior and 1 exterior speakers. | | Mfr. Panasonic | | | |
| Model No. CRCM120UA | | | |
| Seat Spacing | | | 78 passenger based upon manufacturer’s maximum seat spacing. | | | Inside measurement from rear of stepwell to appropriate point at rear of passenger seating area: 294 inches | | | |
| Mfg.’s C/C seat measurement: 28.62 inches | | | |
| Steering Wheel | | | Tilt and telescoping column. | | | Check if as specified | | | |
| Step Tread | | | Studded or pebbled top tread covering. | | | Mfr. Koroseal | | | |
| Tires | | | 6 first quality, radial ply. No low profile tires. | | | Mfr. Hankook | | | |
| Size 11R22.5 | | | |
| Load range H | | | |

PART I (cont.)

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|  |  | **Specification**  **TYPE D—84 PASSENGER, REAR ENGINE** | Vendor: Harlow's Bus Sales |  |
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**Use this document to bid both non-lift and lift buses for 61 – 84 capacity.**

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| **ITEM** | **SPECIFICATIONS**  Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | |
| Toolbox | Exterior, manufacturer standard. | | Size (cubic feet) 2.82 | |
| Transmission | Automatic—Allison, PTS 3000 or equal. | | Mfr. Allison | |
| Model no. 3000 | |
| Net input torque 950 | |
| Net input H.P. 300 | |
| Two-way Communications | 45-watt, VHF, mil. spec. | | Mfr. ICOM | |
| Model No. F-5011 | |
| Wheels | 6 to be compatible with tire size. | | Size 22.5 | |
| Rim width 8.25 | |
|  | **SPECIAL NEEDS REQUIREMENTS—CHASSIS AND BODY** | | |  |
| Wheelchair  Lift—Installed | Must meet state specification. Platform shall be a minimum of 32” x 52”. | | Mfr. Braun | |
| Model No. NL919FIB | |
| Wheelchair/  Occupant Tie-down System—Installed | Must meet state specification. | | Mfr. Q-Straint | |
| Model No. Q-8100-A1-SC | |

PART I (cont.)

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|  |  | **Specification**  **TYPE D—84 PASSENGER, REAR ENGINE**  **Use this document to bid both non-lift and lift buses for 61 – 84 capacity.** | Vendor: Harlow's Bus Sales |
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| **ITEM** | | **SPECIFICATIONS**  Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | |
|  | | **ADDITIONAL REQUIREMENTS—CHASSIS AND BODY** | | |  |
| Line Setting Ticket | | Legible copy of manufacturer’s Line Setting Ticket will be delivered with each vendor’s packet at the time of delivery of the bus. | | Check if as specified | |
| Owner’s/Operator’s Handbook | | One copy of the chassis manufacturer’s owner’s/operator’s handbook or manual will be furnished with each bus at time of delivery. | | Check if as specified | |
| Repair Manuals | | A complete set of chassis, engine, transmission, and body repair manuals, including wiring diagram for all components, will be made available at time of delivery, with instructions available on accessing repair materials. | | Check if as specified | |
| Service and Cleaning | | Cleaning and service by vendor prior to delivery will include:   * Chassis lubrication. * Check fluid levels: verify all are at recommended full levels. * Cooling system protected at -20°F. * Interior and exterior will be clean (including glass). * All systems (electric, air, hydraulic, mechanical and manual) be inspected to ensure proper operation at time of delivery. * All components and accessories will be installed and operational at time of delivery. | | Check if as specified | |
| Warranty | | A complete copy of all warranty agreements will be furnished at time of delivery. | | Check if as specified | |

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| OSPI Logo  **2018-19** | STUDENT TRANSPORTATION  Old Capitol Building  PO BOX 47200  Olympia, WA 98504-7200  (360) 725-6120 TTY (360) 664-3631  **VEHICLE DATA SHEET AND OFFICIAL PRICE QUOTATION**  **TYPE D—84 PASSENGER, REAR ENGINE** | | |
|  | |  | |
| VENDOR’S COMPANY NAME  Harlow's Bus Sales | | REPRESENTATIVE’S NAME  Josh Kinard | TELEPHONE NUMBER  253-939-7700 |
| ADDRESS  1240 W. Main St.  Auburn, WA 98071 | | Estimated delivery date to school district from time purchase order is received: 180 Days ARO  Firm where engine and chassis can be  serviced or repaired and parts obtained: Any International Dealer  Firm where body can be serviced or repaired and parts obtained: Harlow's Bus Sales | |
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| **BODY** | | | | |
| MAKE  IC Corporation | | Warranty: Years 5  Miles Unlimit  Seat color: Gray  Floor color: Black | Inside measurement from rear of stepwell to appropriate point at  rear of passenger seating area:  w/o lift 394 w/lift 394 | Equipped seating capacity:  w/o lift 78 w/lift 60+1  Overall vehicle length (inches):  w/o lift 479 w/lift 479 |
| MODEL  PB305 | YEAR  2020 |

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| **CHASSIS** | | | **ENGINE** | | |
| MAKE  IC Corporation | | Warranty: Years 5  Miles Unlimit | MANUFACTURER  Cummins | | Torque: 860 @ 1300 RPM  H.P.: 300 @ 2000 RPM |
| MODEL  PB305 | YEAR  2020 | Wheel base: 276 | MODEL  L9 300 | YEAR  2020 | C.I.D.: 8.9L  Fuel type: Diesel |
| **TRANSMISSION** | | | Warranty: Years 5  Miles Unlimit  Number of cylinders: 6  Inline X V-type | | Battery type/grp: 31 31  Number batteries: 2 2  Total CCA: 1900 1900 |
| MANUFACTURER  Allison | | Speeds forward: 6 |
| MODEL  3000 | | Warranty: Years 5  Miles Unlimit |

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| **QUOTED PRICE** | |
| Quoted price is based upon payment within 30 days after delivery to the school district (without sales tax).  Bid—w/o lift $ 121,159 Bid—w/lift $ 124,821 | |
| VENDOR REPRESENTATIVE’S SIGNATURE | DATE |

PART II

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|  |  | | **State Price Quote Specification**  **DISTRICT-SUPPORTED OPTIONS**  **C60**  **C77**  **D60  D84**  **Use this document to bid both non-lift and lift buses.** | | | Vendor: Harlow's Bus Sales | |
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|  | |  | |  | | | | |
| **ITEM** | | Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | | | |
| Activity Securement Seating | | 2-passenger position seats with lap-shoulder belts in all passenger positions. | | | Passenger Capacity 52 | | | |
| Cost $ 13,190 | | | |
| Air Conditioning | | To cool passenger compartment as required in the Washington State School Bus Specifications manual. | | | Mfr. TransAir 136k | | | |
| Cost $ 16,587 | | | |
| Alternate Fuel | | Must comply with power and gradeability formula. Refer to Washington State School Bus Specifications manual. Must comply with all of the requirements of FMVSS No. 305. | | | Mfr. N/A | | | |
| CNG | | CNG Cost $ | | | |
| Electric | | Electric Cost $ | | | |
| Alternator | | Available options. | | | Cost $ 882 Capacity 325 | | | |
| Cost $       Capacity | | | |
| Cost $       Capacity | | | |
| Anti-spray Device | | Rubber fender extenders. | | | Type C: Cost $ Included | | | |
| Type D: Cost $ 272 | | | |
| Back-up Alarm | | Must meet state specification. | | | Mfr. Ecco | | | |
| Cost $ 123 | | | |
| Brakes | | 4-wheel hydraulic disk brake. | | | Cost $ N/A | | Deduct $ N/A | |
| Brakes | | Air, Drum or Disc. Refer to Washington State School Bus Specifications manual. | | | Disc Cost $ 3,037 | | Disc Deduct $ N/A | |
| Drum Cost $ Air Std | | Drum Deduct $ N/A | |
| Color | | Exterior white roof. | | | Cost $ 776 | | | |
| Door Locks | | Vandal lock system on all exterior doors. | | | Cost $ 456 | | | |
| Driver’s Seat | | Suspension type, 6-way adjustable, with lumbar adjustment. Cloth panel covers. | | | ***Non-Air*** | | ***Air*** | |
| Mfr. Magnum | | Mfr. National | |
| Cost $ 250 | | Cost $ 350 | |
| Fire Suppression System | | Jomarr VT-6-E-NAF, or equal engine compartment fire suppression system of appropriate size to be installed according to manufacturer recommendation. | | | Mfr. N/A | | | |
| Cost $ | | | |
| Floor Color | | Nonstandard color. | | | Cost $ 419 | | | |

PART II (cont.)

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| Vendor: Harlow's Bus Sales  **State Price Quote Specification**  **DISTRICT-SUPPORTED OPTIONS**  **C60  C77  D60  D84**  **Use this document to bid both non-lift and lift buses.** | | | | |
|  |  |  | | | |
| **ITEM** | Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | | |
| Fuel Tank | Larger fuel capacity (CNG only). | | Size: N/A | Cost $ | |
| Fuel Tank | Larger fuel capacity (Diesel only). | | Size: N/A | Cost $ | |
| Fuel Tank | Larger fuel capacity (Propane only). | | Size: N/A | Cost $ | |
| Headlights | Halogen. | | Cost $ STD | | |
| Headlights | L.E.D. | | Cost $ N/A | | |
| Heater (Auxiliary water) | Auxiliary fuel-fired heating systems. Refer to Washington State School Bus Specifications Manual, page 27. | | Brand: Webasto Model: Scholastic | | |
| Cost $ 3,171 | | |
| Noise Reduction | Exceeding minimum specifications. | | Driver compartment Cost $ 526 | | |
| Engine compartment Cost $ Standard | | |
| Full acoustical headliner Cost $ Included | | |
| Retarder | Manufacturer’s standard. | | Driveline  Cost $ | | |
| Exhaust  Cost $ 184 | | |
| Transmission  Cost $ | | |
| Seat Belt Ready Seat | 3-passenger position seat with securement belts. | | Cost $ 597/seat | | |
| Seating System | Identical, non-lift bus with lap-shoulder seat belt system installed in all positions. | | 2 by 2 Cost $ 13,190 | | |
| Capacity 52 | | |
| 3 by 2 Cost $ N/A | | |
| Capacity N/A | | |
| 3 by 3 Cost $ 14,730 | | |
| Capacity 78 | | |

PART II (cont.)

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| Vendor: Harlow's Bus Sales  **State Price Quote Specification**  **DISTRICT-SUPPORTED OPTIONS**  **C60  C77  D60  D84**  **Use this document to bid both non-lift and lift buses.** | | | | | |
|  |  |  | | | | |
| **ITEM** | Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | | | | |
| Storage Compartments | Largest available for unit bid. | Left-side 28.5 cubic feet. | | | | |
| Cost $ 1,494 | | | | |
| Right-side 28.5 cubic feet. | | | | |
| Cost $ 1,494 | | | | |
| Push-thru 137 cubic feet. | | | | |
| Cost $ 4,596 | | | | |
| Strobe Light | Exterior roof mounted white strobe light. | Mfr. Ecco | | | | |
| Model No. 6550C | | | | |
| Cost $ 217 | | | | |
| Student Protection System—Installed | Electronic system to insure driver post-trip inspection of passenger compartment. | Mfr. Child Check Mate | | | | |
| Model No. EP1 | | | | |
| Cost $ 340 | | | | |
| Suspension | Air ride (Air brake system only). | ***Front*** | | ***Rear*** | | |
| Cost $ 788 | | Cost $ Std | | |
| Toolbox | Interior, manufacturer standard. | Cost $ 47 | | | Deduct $ 62 | |
| Traction Device | Automatic chains. | Mfr. On Spots | | | | |
| Cost $ 2,656 | | | | |
| Traction Device | Sanders. | Capacity 10 Gallon | | | | |
| Cost $ 3,225 | | | | |
| Transmission | Automatic—Allison, PTS 3000 or equal. | Mfr. Allison | | | | |
| Model No. 3000 | | | | |
| Cost $ Standard | | | | |
| Vehicle Securement System | Must meet state specification. | Mfr. SBS | Cost $ 900 | | | |

PART II (cont.)

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| Vendor: Harlow's Bus Sales  **State Price Quote Specification**  **DISTRICT-SUPPORTED OPTIONS**  **C60  C77  D60  D84**  **Use this document to bid both non-lift and lift buses.** | | | | |
|  |  | |  | | |
| **ITEM** | Vendor must meet or exceed these specifications.  Item bid shall be specified in column to right. | | **VENDOR SPECIFICALLY IDENTIFY ITEM BID**  Price of items bid will establish the district cost. | | |
| Video Camera Systems—Installed | Digital audio/video system for monitoring the passenger compartment with more than two cameras. | | Mfr. Seon | | |
| Model No. TH4 | | |
| Cost $ 2,532 How many cameras 3 | | |
| Video Camera Systems—Stop Sign Camera—Installed | Must meet state specification. | ***Stand Alone System*** | | ***Added to Interior System*** | |
| Mfr. Seon | | Mfr. Seon | |
| Model No. TH4 | | Model No. TH4 | |
| Cost $ 1,719 | | Cost $ 461 | |
| How many cameras 1 | | How many cameras 1 | |
| Warning Light Monitor | 16 light monitoring system. | ***Incandescent*** | | ***LED Lights*** | |
| Cost $ 191 | | Cost $ 225 | |
| Additional Wheelchair/Occupant Tie-down System—Installed | Must meet state specification. | | Mfr. Q-Straint | | |
| Model No. Q-8100-A1-SC | | |
| Cost per station $ 596 | | |
| Windows | Laminated passenger-compartment side or rear glass. | | Side Cost $ 816 | | |
| Rear Cost $ 103 | | |
| Both Cost $ 919 | | |
| Windows | Tinted. | | Cost $ 980 | | |
| Windows | Thermal pane, left of driver and service door. | | Cost $ 555 | | |