

**CONTRACT W56HZV-04-D-B105
DATED 28 SEP 04
SOLICITATION W56HZV-04-R-S105**

ATTACHMENT 002

CLINS 1051AA and 1052AA

**TECHNICAL INFORMATION QUESTIONNAIRE
(TIQ)**

Truck, Refrigerated Blood Bank

1. VEHICLE

(a) Chassis Manufacturer **General Motors or Chevrolet**. Chassis Model **C5500 or Chevrolet C5500**. Body Type **LifeLine Unibody**.

2. EQUIPMENT:

Is the vehicle equipped with:

- (a) Headlights? **Yes**
- (b) Turn Signals? **Yes**
- (c) Taillights? **Yes**
- (d) Brake Lights? **Yes**
- (e) Windshield Wipers? **Yes**
- (f) Mirrors? **Yes**
- (g) Fire extinguishers? **Yes**, Type and size of extinguisher **Located in cab and in rear cabin storage attic. Size - 6 kg.**
- (h) Tool box? **Yes, with tools in US measure (\$450 allowance)**
- (i) Tire changing tools and jack? **Yes**, Capacity of jack **Minimum 20,000 lbs..**

3. WEIGHTS (pounds (lbs.))

(a) Curb weight (chassis and body total) **15,500**

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(b) Payload	<u>4,000 min</u>
(c) GVW (total of (a) and (b)).	<u>19,500</u>
(e) Weight Distribution:	
Curb weight, front (chassis and body)	<u>5,250</u>
Curb weight, rear (chassis and body)	<u>10,250</u>
Curb, total (must equal (a) above)	<u>15,500</u>
Loaded, front	<u>6,650</u>
Loaded, rear	<u>12,850</u>
Loaded, total (must equal (c) above)	<u>19,500</u>

4. DIMENSIONS (inches (in.))

- (a) Wheelbase 206 inches. Frame length back of cab 216 inches.
- (b) Rear axle (or bogie) to rear of body 80 inches.
- (c) Rear axle (or bogie) to center of body 26 inches.
- (d) Overall: Length 27 feet (plus 3 feet for generator box) for total of 30 feet. Width 102 inches. Height 12 feet - 2 inches.

5. ENGINE

- (a) Manufacturer Duramax. Model V8 Turbo Diesel.
- (b) Fuel Diesel.
Can the vehicle be operated on high sulfur diesel? (yes or no) Yes, increase oil change interval depending on level of sulfur.
- (c) Number of cylinders _____. Position displacement _____ cubic inches.
- (d) Governed speed, maximum at full load 2,400 rpm.
- (e) Gross horsepower, maximum 300 BHP at 3,000 minimum rpm.
- (f) Net horsepower at engine governed speed _____ BHP at _____ rpm.
- (g) Maximum net torque 520 minimum lb. ft. at 1,800 rpm.

6. STEERING:

- (a) Is the vehicle left hand drive? Yes
- (b) Is the vehicle equipped with power steering? Yes

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7. COOLING SYSTEM

Heavy duty system (yes or no) **No. Increase interval for changing air filter.**

8. FUEL SYSTEM

(a) No. of fuel tanks **One**. Capacity of each fuel tank **40 minimum** gallons.

(b) Location **Undercarriage between frame rails or at side of front cab.**

9. CLUTCH (if manual transmission)

(a) Manufacturer **Not quoted - manual transition option is available**

(b) Nominal diameter _____ in. Area _____ square inches.

(c) Input torque capacity _____ lb. ft.

10. TRANSMISSION

(a) Manufacturer **Allison**. Model **1000 Series minimum**. Type **Automatic**.

(b) Number of speeds: Forward **5-speed**. Reverse **Single-speed**.

(c) Reductions **N/A**, _____, _____, _____, _____, _____, _____, _____, _____.

(d) Input torque capacity _____ lb. ft.

(e) Location of power take-off opening(s) (if equipped) **N/A**.

(f) Power take-off (if equipped): Manufacturer **N/A**. Model _____.

11. AUXILIARY TRANSMISSION OR TRANSFER CASE (when offered) - **Not applicable**

(a) Manufacturer _____.

Model _____.

(b) Number of speeds _____. Reductions _____, _____, _____.

(c) Input torque capacity _____.

(d) Power take-off (PTO) (when offered): **Not Quoted - PTO option is available**

(1) Manufacturer _____.

Model _____.

(2) Operated by: Engine _____, Transmission _____, Electric power _____.

(3) Capacity _____, RPM _____. (d) Clutch Type _____.

12. AXLES

(a) Front:

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Manufacturer Unknown. Model I-beam. Load Rating 7,000 minimum lbs.

(b) Rear:

(1) Manufacturer Unk. Model Single speed. Load Rating 13,500 minimum lbs.

(2) Single or double reduction? Single.

(3) Axle ratios 4.44 to 1.

(4) For two-speed axles: Type of shift N/A.

(5) Bogie spacing (when applicable) N/A in.

(c) Driveline. Starting from (1) indicate drive axles:

Driving Axle (yes or no)

Is drive axle permanent or selectable?

1. Yes, dual wheel

Permanent

2. _____

3. (if equipped) _____

13. SUSPENSION SYSTEM:

(a) Front:

Type Tapered-leaf.

Spring Rate: 7,000 minimum lbs.

Dampening factor: _____.

(b) Rear:

Type Multi-leaf.

Spring Rate: 13,000 minimum lbs.

Dampening factor _____.

14. WHEELS

Type 8-hole hub piloted steel. Rim size 19.5 x 6.75.

15. TIRES

(a) Size and load range: Front 255/70R19.5F Rear 255/70R19.5F Spare 255/70R19.5F

(b) Tread design: Front All Season Rear All Season Spare All Season

(c) Single or dual? Dual rear Tubes? (yes or no) No

(d) Total tire capacity: Front Axle 7,280 lbs. Rear Axle 13,660 lbs.

(e) Are tires radial construction? Yes

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16. BRAKES

(a) Service:

Type **Hydraulic**. Size: Front **Unknown** Rear **Unknown**.

ABS: (yes or no) **Yes**.

What is the stopping distance at GVW from 32 kph? **10 meters**.

(b) Parking brake: **Unknown**

Specify the maximum grade (% slope) the parking brake will hold the vehicle at GVW **20%**

17. PERFORMANCE:

(a) What is the maximum speed the vehicle can maintain at GVW climbing a 2% grade? **65 mph**.

(b) What is the minimum ambient temperature the vehicle can operate in? **-30°F/-34°C**.

(c) What is the maximum ambient temperature the vehicle can operate in? **130°F/54°C**.

18. ELECTRICAL

(a) Potential **12** volts. Positive or negative ground?

(b) Generator or alternator **Yes**.

Manufacturer **Delco Remy or equivalent** Model **AD244 or equivalent**

Capacity **150** amps at volts.

Capacity **Unknown** amps at engine idle speed

(c) Battery:

Manufacturer **Delphi or eq** Model **Heavy-Duty Freedom BS31-750 or equiv**

CCA capacity **Dual 750 minimum** amps

Reserve capacity **320** minutes **@27 degrees C**

Quantity **2**.

19. CAB (for driver's compartment)

(a) Type **Hystec-Style** Material **Steel**

(b) Seating capacity **3**

(c) Describe seats **Single driver, bucket seat / 2-passenger bench**

(d) Type of cab heater **GMC or Chevrolet model**

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Is the heating system capable of bringing the interior temperature of the cab to 20 degrees C from an ambient temperature of -23 degrees C? **Yes**

(e) Type of cab A/C **GMC or Chevrolet model**

Is the air conditioning system capable of bringing the interior temperature of the cab to 27 degrees C from an ambient temperature of 52 degrees C? **Yes**

(f) Does the cab equipped with temperature gauges and control for the three refrigerated compartments?. **Yes**

20. REFRIGERATOR BODY:

(a) Type **(1) Rear body air conditioner, (2) Blood Bank Refrigerator, and (3) Blood Plasma Freezer** Manufacturer **(1) LifeLine, (2) and (3) Jewett** Model **(2) BPR25 and (3) BPL325**

(b) Payload Capacity **See below.**

(c) What are the power sources for the refrigerator equipment? **Onan 10KW SuperQuiet Generator with redundant backup.**

(d) Is each compartment equipped with drainage provisions? **Yes.**

Compartment (1) size and equipment:

(e) Volume **27,500** liters (**cubic decimeters**).

(f) Specify accessibility of the compartment? **Entry into compartment from pull-out stairs on curbside of van.**

(g) Is refrigerated equipment capable of maintaining an interior temperature range from +20 degree C to +23 degree C when ambient temperature is -23 degree C to +52 degree C ? **Yes.**

(h) Is the compartment equipped with ceiling lights? **Yes.**

(i) Is the compartment equipped with a heater to control the lower/freezing temperature? **Yes.**

Compartment (2) size and equipment:

(j) Volume: **1,387** liters (**cubic decimeters**).

(k) Specify accessibility of the compartment? **Entry through Compartment (1), open refrigerator door.**

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- (l) Is refrigerated equipment capable of maintaining an interior temperature range from +2 degree C to +5 degree C when ambient temperature is -23 degree C to +52 degree C. **Yes**.
- (m) Is the compartment equipped with ceiling lights? **Yes**.

Compartment (3) size and equipment:

- (n) Volume: **1,387** liters.
- (o) Specify accessibility of the compartment? **Entry through Compartment (1), open freezer door.**
- (p) Is refrigerated equipment capable of maintaining an interior temperature range from -29 degree C to -32 degree C when ambient temperature is -23 degree C to +52 degree C. **Yes**.
- (q) Is the compartment equipped with ceiling lights? **Interior light and ambient light from Compartment (1).**

21. Color:

Specify vehicle color **White**.

22. SPECIAL EQUIPMENT:

Furnish brief description, rating, manufacturer, model, and size of any additional accessories not mentioned above:

23. Provide the following information regarding dealer support:

- a. Name and location: **General Motors Corporation – United Arab Emirates**

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- b. POC:
- c. Address: **Dubai, UAE**
- d. Phone: **011-9714-314-3333** **Fax 011-9714-314-4102**
- e. Email: **N/A**
- f. Website if any: **N/A**