

St. Clair County Road Commission

SPECIFICATIONS

Diesel Fuels

Sealed bids will be received at the office of the Board of County Road Commissioners of the County of St. Clair, 21 Airport Drive, St. Clair, Michigan 48079, until 1:00 p.m., local prevailing time, WEDNESDAY, JANUARY 16, 2008 for furnishing 2008 requirements of the above material.

DEFINITE SPECIFICATIONS

All commodities and services to be furnished hereunder shall conform to the specifications as noted.

All suppliers are required to review the specific needs of each location which appear on the proposal prior to making initial shipments to ensure compliance with all state and federal laws. Suppliers will also be responsible for identification, containment, notification to authorize, cleanup, disposal and damages associated with any leak or discharge up to and including the Road Commission's hose connection point.

TAXES

The St. Clair County Road Commission is exempt from Federal Excise Tax and State or Local Sales Tax. Prices shall not include such taxes. Exemption Certificates for Federal Excise Tax will be furnished upon request.

Other taxes and/or fees not specifically addressed within the terms and conditions of this proposal, from which the Road Commission is not exempt, are incorporated into the unit price offered in the proposal.

ENVIRONMENTAL PROTECTION REGULATION FEE

Sales to the St. Clair County Road Commission are not exempt from the Environmental Protection Regulatory Fee imposed pursuant to Section 8, 1989 PA 518, as amended by 1989 PA 152, being MCLA 299.808. Effective August 1, 1989, the Road Commission will pay this 7/8 cent per-gallon fee for each gallon purchased in addition to the price per gallon determined pursuant to the price clause of the terms and conditions. This regulatory fee shall be set forth separately and clearly identified in the "billing document".

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MINIMUM ORDER

Truck transport deliveries will be in quantities of 5,000 gallons or more per shipment.

MUTUAL EXTENSION CLAUSE

This bid, by mutual agreement of both parties, may be extended for additional one-year periods, each year hereafter but not to exceed a maximum of two additional years. Requests for contract extensions must be in writing and received by the Road Commission no later than December 31st of each year.

RIGHT TO REJECT

The right to reject any or all bids and to waive defects is reserved by the Road Commission. All proposals are to be in sealed, individual envelopes and plainly marked as a bid, the material bid upon and the name of the bidder.

F.O.B. POINT

Prices are "F.O.B. Delivered" with transportation charges prepaid on all orders.

QUALITY ASSURANCE

The Road Commission reserves the right to periodically test products which have been received to verify compliance with specifications. Product specifications of fuel being supplied will be requested as needed. If laboratory analysis shows that the product does not meet specifications or fails to perform satisfactorily at any time, the supplier shall be responsible for:

1. All cost of testing and laboratory analysis.
2. Disposal and/or replacement of all products which fail to meet specifications.
3. All costs of repair and/or replacement of equipment deemed to have been damaged by substandard products as determined by the Road Commission.
- 4.

GENERAL REQUIREMENTS

Delivery to be within 24 hours of verbal receipt of order. Extensions may be authorized by Purchasing Department only. Copy of delivery slip signed by St. Clair County Road Commission authorized personnel and metered manifest must be left at drop site at time of delivery. Delivery driver and St. Clair County Road Commission personnel will determine storage tank fuel levels immediately prior to and following the unloading of product and record those readings on delivery ticket.

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PRICE

Bid pricing to be plus or minus the average rack price, Detroit area posting, effective the date of delivery. The Road Commission shall use an average between the market low and high posting from the oil price information servis (opis) rounded to the fourth position as the base price for each product. Prices quoted must be the same for all locations within the County.

RIGHT TO KNOW ACT (ACT 80 OF 1986)

The "Right to Know Act" is intended to provide protection and information to employees who encounter hazardous substances in the work place. To comply with this act, it is necessary that the bidder fulfill the following:

A supplier must comply with the requirements of Act 80 of 1986 with respect to the labeling of hazardous chemicals and the provision of Material Safety Data Sheets before such materials are introduced into the work places of the Road Commission. Otherwise such materials will not be allowed on the premises.

Material Safety Data Sheets related to hazardous chemicals must be presented to the Purchasing Agent prior to the introduction of such substances into facilities of the Road Commission. It is recommended that the format of OSHA Form 174, dated September 1985, be used as a standard for Material Safety Data Sheets.

This document must be included with shipment of chemical or hazardous material to the Road Commission. It is necessary to send this document only on the first shipment for each chemical formulation or hazardous material ordered by the Road Commission except when there has been a change in the formulation of the specified chemical or hazardous material, in which case, a revised Material Safety Data Sheet shall accompany the first shipment of the changed formulation. It is the responsibility of the shipping vendor to maintain this record. The Road Commission will not accept first shipment unless compliance with the above is maintained. It is recommended that OSHA Material Safety Data Sheet No. 174 be used.

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SPECIFICATIONS FOR FUEL OIL; DIESEL - LOW SULFUR

These specifications cover grades of diesel fuel suitable for various types of diesel engines under various operating conditions. (See Page 5 for Detailed Requirements.)

General Requirements:

Diesel fuel oils under this specification shall be of three grades as follows:

Ultra LoSulfur #2 w/5% bio

Sulfur: The effect of sulfur content on engine wear and deposits appear to vary considerably in importance and depends largely on operating conditions. In order to assure maximum availability of fuels, the permissible sulfur content should be specified as high as practicable, consistent with maintenance considerations.

Cooper Strip Corrosion: This test serves as a measure of possible difficulties with copper, brass or bronze parts of the fuel system.

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DETAILED REQUIREMENTS

	Grade
	Ultra Low Sulfur No. 2 Diesel
Ash, wt. % max.	0.01
Cetane Index, min.	40
Cetane Number, min	40
Cloud Point, F, max	
Summer (3/1-9/30)	+20
Winter (10/1 - 2/29)	+15
Color, ASTM, max.	2.5
Conductivity @ 20 Cu, min.	50
Copper Corrosion, 3 hrs @ 122F, max.	3
Distillation, F	
Temp @ 90%, recovered	540-640
Temp @ Endpoint, max	690
Flash Point, F, min.	125
Gravity, API min.	30
Lubricity, HFRR @ 60 C, micron, max.	520
Pour Point, °F., Max.	
Summer (3/1-9/30)	+10
Winter (10/1-2/29)	0
Stability, meet one of the Following:	
Thermal, % reflect, 90 minutes, min.	75
Oxidation, mg/100mL, m ax.	2.5
Sulfur, total, ppm, max.	15
Viscosity, cSt @ 40C, min.	1.9-3.4
Water & Sediment, vol. %, max.	0.05

METHODS OF TESTING

The requirements enumerated in the table on this page shall be determined in accordance with the current methods of test of the American Society for Testing and Materials as follows:

- (a) CETANE NUMBER MIN. - ASTM Designation: D 613
- (b) GRAVITY - ASTM Designation: D 287

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METHODS OF TESTING - CONTINUED

- (c) FLASH POINT - ASTM Designation: D 56, D 93
Pensky-Martin Closed Tester; except where other methods are prescribed by law. For Grade No. 1-D, the Tag Closed Tester (ASTM Designation: D 56) may be used as an alternate with the same limits. In cases of dispute method D 93 shall be used as the referee method.
- (d) POUR POINT AND CLOUD POINT - ASTM Designation: D 97
- (e) VISCOSITY, KINEMATIC 40° C-ASTM Designation: D 445
- (f) VISCOSITY, SAYBOLT UNIVERSAL - ASTM Designation: D 2161
- (g) DISTILLATION - Distillation Temperature, °C 90% VOL,
RECOVERED ASTM Designation D-86
- (h) CARBON RESIDUE (RAMSBOTTOM) - ON 10% DISTILLATION RESIDUE, % MASS,
MAX ASTM Designation D 524
- (i) SULFUR - % MASS, MAX, - ASTM Designation D 2622
- (j) WATER & SEDIMENT % VOL. MAX - ASTM Designation: D 2709
- (k) CORROSION - ASTM Designation: D 130

SIGNIFICANCE OF GRADES

No. 2 LoSulfur

W/Lubricity: Fuels of this grade are lower volatility. These fuels are suitable for use in high-speed engines in service involving relatively high loads and uniform speeds or in engines not requiring fuels having the higher volatility or other properties.

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SIGNIFICANCE OF TESTS PRESCRIBED

Cetane Number: Cetane number is a measure of the ignition quality of the fuel and influences combustion roughness. The cetane number requirements depend on engine design, size, nature of speed and load variations, and on starting and atmospheric conditions. Increase in cetane number over values actually required does not materially improve engine performance.

A.P.I. Gravity: This is a measure of the density of petroleum products. Low A.P.I. gravity values represent heavy or dense oils, while high A.P.O. gravity values represent light oils.

Flash Point: The flash point as specified is not directly related to engine performance. It is, however, of importance in connection with legal requirements and safety precautions involved in fuel handling and storage and is normally specified to meet insurance and fire regulations.

Pour Point: Pour point is of importance in connection with the lowest temperature which the fuel may reach and still be sufficiently fluid to be pumped or transferred. The pour point is generally interrelated with cetane number and volatility. Frequently low pour points may be obtained only at the expense of lowering the cetane rating or increasing the volatility. The pour point, therefore, should not be specified lower than necessary.

Viscosity: For some engines it is advantageous to specify a minimum viscosity because of power loss due to injection pump and injector leakage. Maximum viscosity, on the other hand, is limited by considerations involved in engine design and size and the characteristics of the injection system.

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SIGNIFICANCE OF TESTS PRESCRIBED - CONTINUED

Distillation: The fuel volatility requirements depend on engine design, size, nature of speed and load variations, and on starting and atmospheric conditions. For engines in service involving rapidly fluctuating loads and speeds, as in bus and truck operation, the more volatile fuels may provide best performance, particularly with respect to smoke and odor. However, best fuel economy is generally obtained from the heavier types of fuels because of their higher heat content.

Carbon Residue: Carbon Residue gives a measure of the carbon depositing tendencies of a fuel oil when heated in a bulb under prescribed conditions. While not directly correlating with engine deposits, this property is considered an approximation.

REQUIREMENTS

<u>Location</u>	<u>Type of Fuel</u>	<u>Type of Delivery</u>	<u>No. of Tanks</u>	<u>Above or Below</u>	<u>Tank Storage*</u>	<u>Annual Estimated Usage*</u>
Capac	Various	Transport	1	Below	12,000	35,000
Avoca	Various	Transport	1	Below	12,000	38,000
St. Clair	Various	Transport	2	Below	12,000	72,000
					8,000	
Marine City	Various	Transport	1	Below	12,000	32,000

*In Gallons

Approximate Order Schedule: Monthly

Special Equipment/Conditions Required for Delivery: Hours of Delivery will be 7:30 a.m. - 3:30 p.m.

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PROPOSAL

Diesel Fuels

GRADE

Ultra LoSulfur #2 w/5% bio

Capac	_____	_____	_____	_____
Avoca	_____	_____	_____	_____
St. Clair	_____	_____	_____	_____
Marine City	_____	_____	_____	_____

Diesel fuels per State of Michigan specifications.

Bid pricing to be plus or minus the average rack price as defined on Page 3 of the Specifications.

ALL PROPOSALS MUST BE SIGNED BY A PERSON AUTHORIZED TO BIND THE COMPANY TO ITS CONTENTS. SIGNATURE IS FOR ALL CONDITIONS ON PAGES 1-9. IF PROVIDED, ROAD COMMISSION PROPOSAL FORMS MUST BE USED. ANY ALTERATIONS TO THIS FORM WILL RENDER THE PROPOSAL VOID. IF ADDITIONAL OR CHANGED INFORMATION IS NEEDED, IT MUST BE DONE USING AN ATTACHED SHEET AND MARKED AS SUCH.

Name: _____
(Signature)

Name: _____
Typed or Printed

Company Name: _____

Address: _____

e-mail address: _____

Telephone Number: _____

Fax Number: _____

Date: _____