West Virginia
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
General Fax: 304-558-6026
Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Solicitation Response(SR) **Dept:** 0803 **ID:** ESR01272600000004291 **Ver.:** 1 **Function:** New **Phase:** Final **Modified by** batch , 01/28/2026

Header 8

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1857023
Procurement Type: Central Master Agreement
Vendor ID: 000000223741
Legal Name: NCH CORPORATION
Alias/DBA:
Total Bid: $0.00
Response Date: 01/27/2026
Response Time: 17:34
Responded By User ID: Chemsearch
First Name: Toni
Last Name: Boyd
Email: CL.Bids@nch.com
Phone: 800-527-9919

SO Doc Code: CRFQ
SO Dept: 0803
SO Doc ID: DOT2600000047
Published Date: 1/7/26
Close Date: 1/28/26
Close Time: 13:30
Status: Closed
Solicitation Description: Solar Direct Dosing Units w/Additives
Total of Header Attachments: 8
Total of All Attachments: 8

Department of Administration **Purchasing Division** **2019 Washington Street East** **Post Office Box 50130** **Charleston, WV 25305-0130**	**State of West Virginia** **Solicitation Response**

Proc Folder:	1857023
Solicitation Description:	Solar Direct Dosing Units w/Additives
Proc Type:	Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2026-01-28 13:30	SR 0803 ESR01272600000004291	1

VENDOR
000000223741 NCH CORPORATION

Solicitation Number: CRFQ 0803 DOT2600000047

Total Bid: 0 **Response Date:** 2026-01-27 **Response Time:** 17:34:29

Comments:

FOR INFORMATION CONTACT THE BUYER
John W Estep
304-558-2566
john.w.estep@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Solar Direct Inject Dosing Unit	0.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
15000000			

Commodity Line Comments: Solar Direct Inject Pump provided free of charge when using Certified Labs Fuel Treatment Products/Services.

Extended Description:

Solar Direct Inject Dosing Unit

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Diesel Mate All Season Additive 55 Gallons	0.00000	DRUM	3867.600000	0.00

Comm Code	Manufacturer	Specification	Model #
15000000			

Commodity Line Comments: #10171694 DIESEL MATE ALL SEASONS 55 GL
additional packaging available:
2 x 2.5 gl case #10171706 $423.90
6 x 1 gl case #10171688 $520.68
20 gal keg #10171712 $1,560.00

Extended Description:

Diesel Mate All Season Additives 55 Gallon

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Tank Tonic Additive	0.00000	CASE	675.780000	0.00

Comm Code	Manufacturer	Specification	Model #
15000000			

Commodity Line Comments: #12031498 TANK TONIC 12 x 32oz

Extended Description:

Tank Tonic Additive Case of 12

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Fuel Testing/Analysis Services per Test	0.00000	EA	99.780000	0.00

Comm Code	Manufacturer	Specification	Model #
60101727			

Commodity Line Comments: #10072940 DIESEL FUEL TEST KIT (2)
#10185449 DIESEL FUEL TESTING

Extended Description:

Fuel Testing/Analysis Services per Test

VENDOR: NCH CORPORATION DBA CERTIFIED LABORATORIES Solar Direct Inject Dosing Unit

Item No.	Description:	Model & Part Number Being Bid	Estimated Unit Quantity	Unit Price	Item Total Cost
1	**Solar Direct Inject® Dosing Unit**	#12095244 SOLAR DIRECT INJECT PUMP (V2.5)	145	$0.00	$0.00
2	**Diesel Mate All Season Additive 55 Gallon Drum**	#10171694 DIESEL MATE ALL SEASONS 55 GL	100	$ 3,867.60	$386,760.00
3	**Tank Tonic Additive Case of 12**	#12031498 TANK TONIC 12 x 32oz	30	$ 675.78	$20,273.40
4	**Fuel Testing/Analysis Services Per Test**	#10072940 DIESEL FUEL TEST KIT; #10185449 DIESEL FUEL TESTING	300	$ 99.78	$29,934.00
Total Bid Cost					**$436,967.40**

SPECIFICATIONS

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Highways (WVDOH) to establish an open-end contract for Solar Direct Inject Dosing Unit or Equal and Additives to enhance the quality performance and stability of the WVDOH diesel fuel supply; due to the lack of strict national regulations and the enforcement of fuel quality standards. Vendor must bid both the products, equipment and services for the bid to be considered.

2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.

   2.1 **"Contract Item"** or **"Contract Items"** means the list of items identified in Section 3.1 below and on the Pricing Pages.

   2.2 **"Pricing Pages"** means the schedule of prices, estimated order quantity, and totals contained in wvOASIS or attached hereto as Exhibit A, and used to evaluate the Solicitation responses.

   2.3 **"Solicitation"** means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

3. **GENERAL REQUIREMENTS:**

   3.1 **Contract Items and Mandatory Requirements:** Vendor shall provide Agency with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.

   3.1.1 **PRODUCTS: The following products shall be available in order to improve and maintain fuel quality. Chemicals shall be added at the appropriate dosage levels in order to eliminate problems faced by inferior grade fuel and contamination.**

   3.1.1.1 Certified Laboratories Diesel Mate All Season Diesel Fuel Additive or Equal.

   A. Product shall boost cetane ratings by a minimum of 5 points.

B. Product shall be a demulsifier, by pulling the water out of the diesel fuel to the bottom of the tank where it can be pumped off.

C. Product shall clean injectors and pumps by preventing formation of gum, varnish and laquer

D. Product shall prevent gelling and improve cold flow by -40F minimum (without use of alcohol).

E. Product shall reduce oxidation by preventing fuel breakdown during storage, it reduces the formation of laquer, gum and sludge.

F. Product shall prevent rust and corrosion by plating metal surfaces in tanks.

G. Product must contain a lubricity additive.

H. Product must be 100% effective treating any percentage of biodiesel the state receives up to B5.

3.1.1.2 Certified Laboratories Tank Tonic Additive, or equal.

A. Product shall kill 100% of bacteria and fungus in the diesel fuel in 8 hours minimum.

B. Product shall meet EPA Regulation 464-659-66114.

C. Product must contain a diesel fuel stabilizer with oxidation inhibitor and metal deactivators .

3.1.2 SERVICES:

3.1.2.1 Vendor shall provide solar powered automatic diesel product dosing unit, or equal to autonomously and automatically dosing all AST diesel fuel storage tanks with the appropriate product level.

A. Shall have a NEMA approved enclosure.

B. Shall be battery powered and low voltage.

C. Warranty dosing equipment for the life of the agreement against any defects that will prohibit the dosing unit from working properly up to and including total unit replacement.

D. Shall be available for assistance for all WVDOH Locations (144) See Exhibit B and Exhibit C at no additional cost.

E. Automated dosing systems must have been in use in market for a minimum of 3 years. Documentation must be submitted with your bid

3.1.2.2 Vendor must have a fuel quality management technician located within the state of WV.

3.1.2.3 Vendor shall conduct quarterly site visits to WVDOH locations for briefing and assessment. January – March 1st quarter/April – June 2nd quarter/ July-September 3rd quarter and October – December 4th quarter.

3.1.2.4 Must conduct on-site training seminars, at no charge on fuel quality assurance methodology geared towards technicians, mechanics, equipment operators, as well as supervisors and management.

3.1.2.5 Shall train on how to pull diesel fuel samples and ship in OSHA approved packaging for testing and analysis at contractor's lab, as requested, no charge.

3.1.2.6 Testing shall include:

A. Percentage water

B. Biological growth

C. Base cetane rating and improved cetane rating.

D. Cloud point (°C & F)

E. Pour point (°C&F)

F. Cold Filter Plug Point (CFPP)

G. Biodiesel content (%)

H. Additive Dilution Rate.

3.1.2.7 Shall work with each WVDOH fuel location at no charge to correctly sterilize tanks as necessary based on test results and properly administer diesel fuel treatment using the solar powered dosing equipment.

3.1.2.8 Shall consult individually with each WVDOH location at no additional cost, experiencing fuel problems, identify problems and develop a plan to correct and prevent problems in the future.

4. CONTRACT AWARD:

4.1 Contract Award: The Contract is intended to provide Agencies with a purchase price on all Contract Items. The Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.

4.2 Pricing Pages: Vendor should complete the Pricing Pages (Exhibit A). Vendor shall take estimated quantity and multiply by unit price to get grand total. Vendor should complete the Pricing Pages in their entirety as failure to do so may result in Vendor's bids being disqualified.

The Pricing Pages contain a list of the Contract Items and estimated purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

Vendor should electronically enter the information into the Pricing Pages through wvOASIS, if available, or as an electronic document. In most cases, the Vendor can request an electronic copy of the Pricing Pages for bid purposes by sending an email request to the following address: john.w.estep@wv.gov

5. ORDERING AND PAYMENT:

5.1 **Ordering:** Vendor shall accept orders through wvOASIS, regular mail, facsimile, e-mail, or any other written form of communication. Vendor may, but is not required to, accept on-line orders through a secure internet ordering portal/website. If Vendor has the ability to accept on-line orders, it should include in its response a brief description of how Agencies may utilize the on-line ordering system. Vendor shall ensure that its on-line ordering system is properly secured prior to processing Agency orders on-line.

5.2 **Payment:** Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.

6. DELIVERY AND RETURN:

6.1 **Delivery Time:** Vendor shall deliver standard orders within 5 working days after orders are received. Vendor shall deliver emergency orders within 24 hours after orders are received. Vendor shall ship all orders in accordance with the above schedule and shall not hold orders until a minimum delivery quantity is met.

6.2 **Late Delivery:** The Agency placing the order under this Contract must be notified in writing if orders will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the delayed order, and/or obtaining the items ordered from a third party.

Any Agency seeking to obtain items from a third party under this provision must first obtain approval of the Purchasing Division.

6.3 **Delivery Payment/Risk of Loss:** Standard order delivery shall be F.O.B. destination to the Agency's location. Vendor shall include the cost of standard order delivery charges in its bid pricing/discount and is not permitted to charge the Agency separately for such delivery. The Agency will pay delivery charges on all emergency orders provided that Vendor invoices those delivery costs as a separate charge with the original freight bill attached to the invoice.

6.4 **Return of Unacceptable Items:** If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable, or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the Agency

with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.

6.5 Return Due to Agency Error: Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

7. VENDOR DEFAULT:

7.1 The following shall be considered a vendor default under this Contract.

7.1.1 Failure to provide Contract Items in accordance with the requirements contained herein.

7.1.2 Failure to comply with other specifications and requirements contained herein.

7.1.3 Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

7.1.4 Failure to remedy deficient performance upon request.

7.2 The following remedies shall be available to Agency upon default.

7.2.1 Immediate cancellation of the Contract.

7.2.2 Immediate cancellation of one or more release orders issued under this Contract.

7.2.3 Any other remedies available in law or equity.

8. MISCELLANEOUS:

8.1 No Substitutions: Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.

8.2 Vendor Supply: Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.

8.3 Reports: Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

8.4 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: Toni L. Boyd
Telephone Number: 972-438-0563
Fax Number: 972-438-0634
Email Address: CL.Bids@nch.com; CL.Bids@solenis.com

Diesel-Mate™ All Seasons

Diesel Fuel Improver

Year-round diesel fuel conditioner designed to improve the performance of on-road, off-road, marine diesel fuel and biodiesel.

Provides Superior Equipment Protection for

- Fleet & Service Vehicles
- Excavation & Demolition
- Utility Construction
- Concrete & Asphalt Paving
- Federal, State & Local Agencies
- Emergency Vehicles
- Universities & Hotels
- Power Generators
- Marine

Contains No Sulfur & No Alcohol

Improves engine performance, lengthens equipment life, and reduces emissions.

Typical Treat Rate = 1 gal:1000 gal

- Boosts Base Cetane Up To 15% — improves ignition, cuts starting time, and reduces detonation wear by raising Cetane levels 15% on the average.
- Reduces Emissions — helps operators comply with clean air laws by promoting cleaner fuel burn to reduce smoking, soot and vapor exhaust. Reduces emissions by an average of 20%.
- Reduces Friction and Wear — contains AA-93™, a polymeric anti-wear additive that protects injectors and pumps from both mechanical and chemical wear caused by Ultra-Low Sulfur Diesel fuel.
- Separates Out Water — demulsifiers separate water from fuel so it can be removed from storage tanks.
- Cleans Injectors & Pumps — powerful new detergent cleans fuel pumps, injectors, and fuel lines and disperses contaminates to prevent the formation of gum, varnish, lacquer, and carbon coke. Meets all the latest injector cleanliness tests; Cummins L-10, Peugot XUD9, & Peugot DW-10. Helps prevent waxy soap carboxylate salt deposits from plugging tight tolerance common rail injectors in new engines.
- Prevents Gelling — lowers fuel pour-point by up to 48°F (26°C)
- Reduces Oxidation During Storage — oxidation inhibitors extend the storage stability of ULSD and biodiesel.
- Prevents Rust & Corrosion — contains rust and corrosion inhibitors that protect storage tanks, on-board fuel tanks, fuel lines and engine components.
- Contains Metal Deactivators — deactivates trace amounts of heavy metals, particularly copper. This prevents them from acting as catalysts that promote varnish and gum.
- Improves Mileage —detergents that keep fuel systems clean and functioning properly and cetane improvers that provide more complete combustion help Diesel-Mate improve ULSD & biodiesel fuel efficiency by an average of 5%.

 © 2023 NCH Corporation *Consult the label for directions and precautions before using this product.

Diesel-Mate™ All Seasons contains an additive package that sets it apart from other diesel fuel conditioners

Additives	User Benefits
Cetane Booster	Raises cetane number an average of 15% to help increase mileage, improve combustion and make starting easier.
Demulsifier	Prevents emulsification and separates water and condensation to the bottom of storage tanks where it can be drained or pumped away. Eliminates water contaminants to improve combustion and reduce clogging in injectors and water filters
Anti-Wear Agents	Contains a molecular compound that forms a highly resistant lubrication film that bonds to metal surfaces and protects against mechanical and corrosive wear.
Detergents and Dispersants	Prevent sludge, varnish and gum formation that can clog filters, fuel lines and injector tips. By keeping injectors free of deposits, they let fuel atomize uniformly to reduce loss of power, decrease stack smoking and help prevent excessive detonation wear. Meets and exceeds Cummins L-10 Injector Deposit Test requirements.
Pour Point Depressant	Improves fuel flow, starting ability and operating efficiency at low temperatures by helping to prevent gelling.
Oxidation Inhibitors	Help prevent fuel breakdown during storage and reduce the formation of varnish, lacquer, gum and sludge.
Rust and Corrosion Inhibitors	Plate metal surfaces in storage tanks, on-board tanks, fuel lines and injectors to prevent corrosive damage. Reduce repair expenses and rust flakes that can clog injector tips and filters.
Metal Deactivator	Deactivates trace amounts of heavy metals, particularly copper. This prevents them from acting as catalysts that promote oxidation and form incombustible engine gums.

Contains No Sulfur & No Alcohol

The Complete Fuel Quality Assurance™ Product Line

Tank Tonic™	**Complete Fuel Biocide & Fungicide For Gasoline, Diesel and Heating Oil**
BioDiesel-Mate™ All Seasons	**Complete Year-Round Fuel Improver for Biodiesel up to B20, Improves Storage Stability, Boosts Cetane, Reduces Emissions & Wear, increases Mileage/Hours, and Lowers Fuel Gel Point. Works in all types of diesel fuel.**
Diesel-Mate™ All Seasons	**Complete Diesel Fuel Improver for All Seasons, Boosts Cetane, Reduces Emissions & Wear, Reduces Fuel Oxidation, Increases Mileage/Hours, and Lowers Fuel Gel Point. up to 31°F.**
Diesel-Mate™ 2000 All Seasons	**Year-round Diesel Fuel Improver for Fuel Distributors, Boosts Cetane, Reduces Emissions & Wear, Reduces Fuel Oxidation, Increases Mileage/Hours, and Lowers Fuel Gel Point.**
Arctic Diesel-Mate™	**Year-round diesel fuel conditioner designed to improve the performance of on-road, off-road, marine diesel fuel and Biodiesel. Can be stored and used down to -60ºF/-51ºC.**
DZL Clean ™	**Single Application Diesel Fuel System Cleaner. Cleans Injector Tips and Prevents Clogging, Rusting and Corrosion of Fuel Systems.**
Fire-Up! ™	**Diesel Fuel Cold Flow Improver - Lowers Pour Point up to 40°F, Prevents Fuel Gelling and Icing.**
Thaw-Out ™	**Emergency Diesel Fuel De-Icing Agent, Re-Liquefies Frozen Diesel Fuel**
Mile-Hi ™	**Gasoline Performance Improver, Cleans Fuel System, Pistons and Cylinders, Reduces Emissions and Increases Mileage.**
Full Blast Plus ™	**Heating Oil Performance Improver, Cleans Furnace System , Promotes Complete Burn, Keeps Fuel Fresh.**

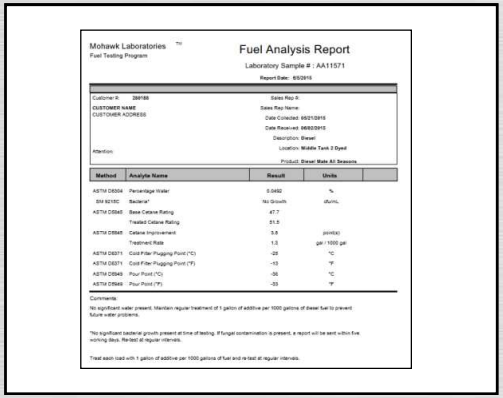
IDEAL FOR USE IN:
Fuel Distributors and Jobbers Storages, Over-the-road and off-road diesel engines and storage, marine diesel engines and storage, diesel power generators, long-term fuel storage.

DO NOT USE FOR:
Gasoline engines and storage, for heating fuel

Laboratory Fuel Analysis

CERTIFIED

QUALITY ISO 9001 ASSURANCE



Mohawk Laboratories ™
Fuel Testing Program

Fuel Analysis Report

Laboratory Sample # : AA11571

Report Date: 6/5/2015

Customer #: 289188
CUSTOMER NAME
CUSTOMER ADDRESS

Sales Rep #:
Sales Rep Name:
Date Collected: 05/21/2015
Date Received: 06/03/2015
Description: Diesel
Location: Middle Tank 2 Dyed
Product: Diesel Mate All Seasons

Attention:

Method	Analyte Name	Result	Units
ASTM D6304	Percentage Water	0.0492	%
SM 9215C	Bacteria*	No Growth	cfu/mL
ASTM D6045	Base Cetane Rating	47.7	
	Treated Cetane Rating	51.5	
ASTM D6045	Cetane Improvement	3.8	point(s)
	Treatment Rate	1.3	gal / 1000 gal
ASTM D6371	Cold Filter Plugging Point (°C)	-28	°C
ASTM D6371	Cold Filter Plugging Point (°F)	-13	°F
ASTM D6949	Pour Point (°C)	-36	°C
ASTM D6949	Pour Point (°F)	-33	°F

Comments:

No significant water present. Maintain regular treatment of 1 gallon of additive per 1000 gallons of diesel fuel to prevent future water problems.

*No significant bacterial growth present at time of testing. If fungal contamination is present, a report will be sent within five working days. Re-test at regular intervals.

Treat each load with 1 gallon of additive per 1000 gallons of fuel and re-test at regular intervals.

Fast, reliable test results that are easy to understand assures optimal equipment performance.

Complete Fuel Analysis With Treat Rate Recommendations

- **Analyze Bacteria Concentration — determines the concentration of over 14 different types of bacteria known to infect fuel storage.**
- **Analyze Fungi Concentration — analyzes the concentration of over 7 types of fungi known to infect fuel storage.**
- **Analyze Water Concentration — determines the percentage of water contamination present in the fuel.**
- **Analyze Base Cetane Level — analyzes the Cetane level which is determined by ASTM D 613-86.**
- **Treat Rate Determination — reports the amount of Diesel-Mate™ in the sample, then provides recommendations on treat rate with respect to these results .**
- **Fast and Reliable Results**

Helps save money by allowing managers to easily monitor the condition of their diesel fuel and storage tanks.

Irving, Texas • Indianapolis, Indiana • Kendall Park, New Jersey • Sunnyvale, California • Brampton, Ontario • Edmonton, Alberta
www.certifiedlabs.com © 2017 NCH Corporation
*Consult the label for directions and precautions before using this product.

INTERPRETING DATA:

CETANE RATING	CLASSIFICATION
53-60	Excellent
50-53	Good
47-49	Fair
46 & Below	Poor

CETANE RATING:
A minimum Cetane Number* established by ASTM and by engine manufacturers is 50. A good Cetane rating for diesel fuel would have a Cetane Rating of 50 or higher. Low Cetane diesel fuel can cause delayed ignition, poor fuel economy, smoking and hard starting (mainly in cool weather).

BIOLOGICAL CONTAMINATION

Normal =1 Thousand CFU/ml*
Light=10 Thousand CFU/ ml*
Medium=100 Thousand CFU/ ml*
Heavy= 1 Million CFU/ ml*
Very Heavy= 10 Million CFU/ml*

CFU/ml= Colony Forming Units per Millimeter

Normal Bacteria : count is not a particular problem. Treat every third load of diesel fuel to keep growth in check.
Light-Medium Bacteria: systems should be monitored for cetane and water. A shock dosage for each load should keep growth in check.
Heavy Bacteria: systems need a shock treatment. May have to change filters more often. Check diesel storage for water and pump out if any is found.

CORRELATION OF HMB AND DIP SLIDE

HMB READING			DIP SLIDE EQUIVALENT
0.0	-	0.1	1 Thousand CFU/ml *
0.2	-	0.6	10 Thousand CFU/ml *
0.7	-	3.7	100 Thousand CFU/ml *
3.8	-	12.0	1 Million CFU/ml*
12.1	-	19.9	10 Million CFU/ml*

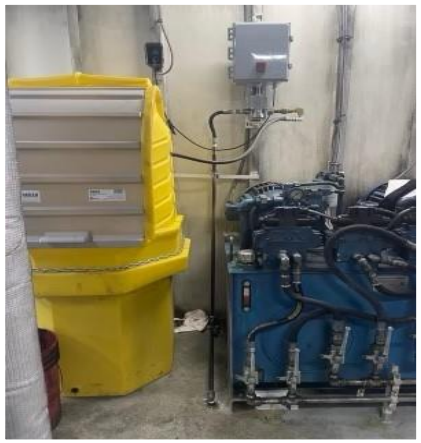
*CFU/ml= Colony Forming Units per Millimeter.

WATER: Diesel fuel containing suspended water should be treated with a demulsifier to separate this water from the fuel. Water contamination can cause clogged fuel filters, scored injectors, fuel line freezeups, and can create a favorable environment for bacter and fungal growth. Values of 1% or greater could cause severe operating problems. The affected tank should have the free water pumped from the bottom of the tank.

***The Cetane Number of a diesel is determined by ASTM D 613-86 Ignition Quality of Diesel Fuel by the Cetane Method (an engine test).**

Global Solar Direct-Inject™ System

Solar Powered Diesel Fuel Improver Injector



Precise and Automated Injection for Diesel Fuel Storage Tanks.

Provides Superior Equipment Protection for

- Industrial Manufacturing
- Transportation & Fleet
- Steel Mills & Foundries
- Agriculture
- Paper Mills, Printing & Packaging
- Federal, State & Local Agencies
- Construction
- Mining
- Excavation
- Demolition
- Concrete & Asphalt Paving

Direct-Injects proprietary system offers reliable, solar powered diesel fuel improver injection.

Operates Autonomously – Activated automatically at the time of fuel delivery

Onboard Telemetry – Reports SDI System status, delivery confirmation, fluid monitoring and more via email 24/7/365

Thorough Mixing- Fuel treatment is automatically added during fuel delivery to insure thorough mixing.

Accurate Dilution - The Direct-Inject reduces waste by delivering a precise amount of fuel improver.

Solar Powered- Requires no electrical or compressed air connections to operate. Allows for remote installation.

Multiple Options for Installation- Allows for the most efficient and non-intrusive installation for each customer site.

Durable & Reliable - Able to operate under high flow and high pressure conditions.

 © 2022 NCH Corporation
*Consult the label for directions and precautions before using this product.

Global Solar Direct-Inject System™

Telemetry Reporting Examples

Normal Additive Delivery

From: SDI Pump <noreply@nch.com>
Sent: Friday, January 14, 2022 2:14 PM
To: Joe Farrier <JFARRIER@nch.com>
Subject: SDI Pump Dose at Miller Truck Lines

Dear

Your SDI Pump with serial number KK229997 located at Miller Truck Lines, performed a dose in AUTO mode at 20:13 GMT on 14 Jan 2022.

Information from the dose:

- Dose mode: AUTO
- Dose size configured (g): 0008
- Actual amount dosed (g): 0008
- Status: NORMAL
- Tank level after the dose (g): 337
- Lifetime litres dosed (g): 381
- Temperature (°C): 21

Dose Explanation:

- Dose mode: 4 possibilities exist (Auto: automatic; Custom: in automatic mode; Manual; Variable).
- Dose size configured: Dose volume at which the SDI System was set before start.
- Actual amount dosed: Dose volume pumped after completion.
- Status: 5 possibilities exist (Normal: dose pumped normally; Cancel: dose was cancelled; E-stop: the emergency e-stop button was activated; Slow-flow: additive flow is too slow. Typically not enough additive in tank or flow can be blocked; Time-out: controller switch itself off automatically after 60 minutes. If a dose is still active the dose will be cancelled with "Time-out").
- Tank level after dose (l): Additive level after dose completion. Make sure you pay extra attention to this number! Schedule service top up ahead of time to prevent additive from running out.
- Lifetime liters dosed (l): This number shows total liter dosed since the SDI System installation. Similar as a car odometer.
- Flow speed only for Variable (l/min): This number shows setting of fuel flow speed in Variable mode only.
- Temperature (°C): Temperature inside the Solar Direct Inject Pump.
- Note: Time is shown in Greenwich World Time (GMT). For continental Europe starting last Sunday of March until last Sunday of October add 2 hours. For the remaining period add 1 hour.

Service Report

From: KKube <noreply@nch.com>
Date: January 13, 2022 at 10:29:27 AM CST
To: Joe Farrier <JFARRIER@nch.com>
Subject: K Kube Service at Miller Truck Lines

Dear

Your K Kube with serial number KK229997 located at Miller Truck Lines, was serviced at 16:28 GMT on 13 Jan 2022.

Information from the service:

- Tank level after service (l): 353
- Tank level before service (l): 0003
- Additive added (l): 350
- Lifetime litres dosed (l): 365
- Temperature (°C): 23

Service Explanation:

- Tank level after service: New additive level in K Kube tank after service completion.
- Tank level before service: Original additive level in K Kube tank before service.
- Additive added: Amount of additive added into K Kube tank during service.
- Lifetime litres dosed (l): This number shows total liters dosed since the K Kube installation. Similar as a car odometer.
- Temperature (°C): Temperature inside the K Kube.
- Note: Time is shown in Greenwich World Time (GMT). For continental Europe starting last Sunday of March until last Sunday of October add 2 hours. For the remaining period add 1 hour.

Tank Tonic™

Fuel Biocide & Preservative

Eliminates Bacteria and Fungus from Fuel Systems and Storage Tanks.

Fuel biocide, fungicide and preservative designed for on-road, off-road, stationary, and marine equipment.

Provides Superior Equipment Protection for

- Fleet & Service Vehicles
- Excavation & Demolition
- Utility Construction
- Concrete & Asphalt Paving
- Federal, State & Local Agencies
- Emergency Vehicles
- Universities, Hospitals, Hotels
- Power Generators
- Marine

Contains No Sulfur

Broad Spectrum Activity — Eliminates bacteria and fungus.

Improves Combustion Efficiency — Helps keep injector tips clean in order to provide a proper spray pattern.

Reduces Acidic Corrosion — Mitigates organisms that form corrosive acids in fuels.

Extends Change-out Life of Filters — Eliminates the bacterial and fungal slime and bio-mass that clog fuel filters.

Eliminates Bacteria and Fungi in the Fuel & Water Phase — Treats the entire storage tank, unlike many biocides which only treat one phase or the other.

Decreases Fuel Breakdown — Prevents the biological breakdown and acid formation in stored fuel.

Compatible With Other Additives — Will not affect the performance of other fuel additives

EPA Registration # 464-659-66114

Typical Treat Rate = 1qt : 1000 gal

Consult the label for directions and precautions before using this product.

 © 2021 NCH Corporation
Consult the label for directions and precautions before using this product.

Tank Tonic™ contains highly effective anti-microbial agents that sets it apart from other diesel fuel biocides

Agent	Benefit
4-(2-Nitrobutyl) morpholine	Agents are highly soluble in fuels and are slowly released into water phase to control microbial and fungal growth in both fuel and water phases of storage. These active agents remain in the fuel long term to provide protection even after the water has been removed.
4,4'-(2-Ethyl-2-nitrotrimethylene) dimorpholine	

The Complete Fuel Quality Assurance™ Product Line

Tank Tonic™	Complete Fuel Biocide & Fungicide For Gasoline, Diesel and Heating Oil
BioDiesel-Mate™ All Seasons	Complete Year-Round Fuel Improver for Biodiesel up to B20, Improves Storage Stability, Boosts Cetane, Reduces Emissions & Wear, increases Mileage/Hours, and Lowers Fuel Gel Point. Works in all types of diesel fuel.
Diesel-Mate™ All Seasons	Complete Diesel Fuel Improver for All Seasons, Boosts Cetane, Reduces Emissions & Wear, Reduces Fuel Oxidation, Increases Mileage/Hours, and Lowers Fuel Gel Point. up to 31°F (-1°C)
Diesel-Mate™ 2000 All Seasons	Year-round Diesel Fuel Improver for Fuel Distributors, Boosts Cetane, Reduces Emissions & Wear, Reduces Fuel Oxidation, Increases Mileage/Hours, and Lowers Fuel Gel Point.
Arctic Diesel-Mate™	Year-round diesel fuel conditioner designed to improve the performance of on-road, off-road, marine diesel fuel and Biodiesel. Can be stored and used down to -60ºF (-51ºC).
DZL Clean ™	Single Application Diesel Fuel System Cleaner. Cleans Injector Tips and Prevents Clogging, Rusting and Corrosion of Fuel Systems.
Fire-Up! ™	Diesel Fuel Cold Flow Improver - Lowers Pour Point up to 40°F (22°C) Prevents Fuel Gelling and Icing.
Thaw-Out ™	Emergency Diesel Fuel De-Icing Agent, Re-Liquefies Frozen Diesel Fuel
Mile-Hi ™	Gasoline Performance Improver, Cleans Fuel System, Pistons and Cylinders, Reduces Emissions and Increases Mileage.
Full Blast Plus ™	Heating Oil Performance Improver, Cleans Furnace System , Promotes Complete Burn, Keeps Fuel Fresh.

Contains No Sulfur

IDEAL FOR USE IN:
Over-the-road and off-road diesel fuel, on-board tanks and bulk storage, marine diesel fuel, diesel power generators, gasoline, jet fuel, kerosene, bunker oils, boiler oils, fuel oil, and long-term fuel storage.

DO NOT USE FOR:
Gear oils, transmission oils, hydraulic oils, compressor oils, turbine oils, motor oils or cutting fluids.

	Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130	**State of West Virginia** **Centralized Request for Quote** **Equipment**

Proc Folder: 1857023 **Doc Description:** Solar Direct Dosing Units w/Additives **Proc Type:** Central Master Agreement			**Reason for Modification:** ADDENDUM NO_1 Attach Pre-Bid Sign-in Sheets
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2026-01-07	2026-01-28 13:30	CRFQ 0803 DOT2600000047	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name :

Address :

Street :

City :

State : **Country :** **Zip :**

Principal Contact :

Vendor Contact Phone: ***Extension:***

FOR INFORMATION CONTACT THE BUYER
John W Estep
304-558-2566
john.w.estep@wv.gov

Vendor Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION
ADDENDUM NO_1 Addendum No_1 issued to publish and distribute the attached information to the Vendor Community REQUEST FOR QUOTATION: The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Highways (WVDOH) to establish an *open-end contract for Solar Direct Inject Dosing Unit or Equal and Additives to enhance the quality performance and stability of the* WVDOH diesel fuel supply. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO		SHIP TO	
DIVISION OF HIGHWAYS		DIVISION OF HIGHWAYS	
EQUIPMENT DIVISION RT 33		EQUIPMENT DIVISION	
83 BRUSHY ROAD CROSSING, PO BOX 610		83 BRUSHY FORK RD CROSSING	
BUCKHANNON	WV	BUCKHANNON	WV
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Solar Direct Inject Dosing Unit	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
15000000			

Extended Description:
Solar Direct Inject Dosing Unit

INVOICE TO		SHIP TO	
DIVISION OF HIGHWAYS		DIVISION OF HIGHWAYS	
EQUIPMENT DIVISION RT 33		EQUIPMENT DIVISION	
83 BRUSHY ROAD CROSSING, PO BOX 610		83 BRUSHY FORK RD CROSSING	
BUCKHANNON	WV	BUCKHANNON	WV
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	*Diesel Mate All Season Additive 55 Gallons*	*0.00000*	*DRUM*		

Comm Code	Manufacturer	Specification	Model #
15000000			

Extended Description:
Diesel Mate All Season Additives 55 Gallon

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Tank Tonic Additive	0.00000	CASE		

Comm Code	Manufacturer	Specification	Model #
15000000			

Extended Description:
Tank Tonic Additive Case of 12

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 *83 BRUSHY ROAD* CROSSING, PO BOX 610 BUCKHANNON WV US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION *83 BRUSHY FORK RD* CROSSING BUCKHANNON WV US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Fuel Testing/Analysis Services per Test	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
60101727			

Extended Description:
Fuel Testing/Analysis Services per Test

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Pre-Bid Meeting 10:00am - WVDOH Equipment Div-Buckhannon	2026-01-07
2	Tech Questions due by 10:00am	2026-01-15

SOLICITATION NUMBER: CRFQ DOT2600000047
Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CRFQ DOT26000000047 ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

[ ] Modify bid opening date and time

[ ] Modify specifications of product or service being sought

[ ] Attachment of vendor questions and responses

[X] Attachment of pre-bid sign-in sheet

[ ] Correction of error

[ ] Other

Additional Documentation:

Attach Pre-Bid Sign-in Sheets

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.

2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

Pre-Bid Sign-In Sheet

Solicitation Number: CRFQ 0803 DOT2600000047
Date of Pre-Bid Meeting: January 7, 2026
Location of Prebid Meeting: Buckhannon, WV Equipment Div.

Please Note:
Vendors must sign-in on this sheet to verify attendance at the Pre-Bid meeting.
Failure to legibly sign in may be grounds for declaring a vendor ineligible to bid.
For further verification, please also provide a business card if possible.

Firm Represented:*	Rep Name (Printed):	Firm Address:	Telephone #:	Fax #:	Email:
Certified Labs	Greg Frame	2727 Chemsearch Blvd Irving TX. 75015	972-438-0591		greg.frame@certifiedlabs.com

***One Vendor Per Representative** - No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.*

Pre-Bid Sign-In Sheet

Solicitation Number: CRFQ 0803 DOT2600000047
Date of Pre-Bid Meeting: January 7, 2026
Location of Prebid Meeting: Buckhannon, WV Equipment Div.

Please Note:
Vendors must sign-in on this sheet to verify attendance at the Pre-Bid meeting.
Failure to legibly sign in may be grounds for declaring a vendor ineligible to bid.
For further verification, please also provide a business card if possible.

Firm Represented:*	Rep Name (Printed):	Firm Address:	Telephone #:	Fax #:	Email:
WVDOH	Pam Hall	83 Brushy Fork Crossing Buckhannon WV 26201	304-471-0139		Pamela.j.hall@wv.gov
WVDOH	Justin Godwin	83 Brushy Fork Crossing Buckhannon WV 26201	304-997-5945		justin.l.godwin@wv.gov
WVDOH	Brent Studivant	83 Brushy Fork Crossing Buckhannon WV 26201	304 471-0138		Brent.Studivant@wv.gov

***One Vendor Per Representative** - No one individual is permitted to represent more than one vendor at the pre-bid meeting. Any individual that does attempt to represent two or more vendors will be required to select one vendor to which the individual's attendance will be attributed. The vendors not selected will be deemed to have not attended the pre-bid meeting unless another individual attended on their behalf.*

Greg Frame
Sales Representative
Over 12 Years of Service

CERTIFIED

INNER CIRCLE

cell: 304-481-7267
greg.frame@certifiedlabs.com

certifiedlabs.com • 972-438-0591

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DOT2600000047

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge the addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

[X]	*Addendum No. 1*	[ ]	*Addendum No. 6*
[ ]	Addendum No. 2	[ ]	Addendum No. 7
[ ]	Addendum No. 3	[ ]	Addendum No. 8
[ ]	Addendum No. 4	[ ]	Addendum No. 9
[ ]	Addendum No. 5	[ ]	Addendum No. 10

I understand that failure to confirm the receipt of the addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

NCH CORPORATION DBA
CERTIFIED LABORATORIES

Company

Authorized Signature

JANUARY 27, 2026

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

	Department of Administration **Purchasing Division** **2019 Washington Street East** **Post Office Box 50130** **Charleston, WV 25305-0130**	**State of West Virginia** **Centralized Request for Quote** **Equipment**

Proc Folder:	1857023		**Reason for Modification:**
Doc Description:	Solar Direct Dosing Units w/Additives		ADDENDUM NO_1 Attach Pre-Bid Sign-in Sheets
Proc Type:	Central Master Agreement		
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2026-01-07	2026-01-28 13:30	CRFQ 0803 DOT2600000047	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name : **NCH CORPORATION DBA CERTIFIED LABORATORIES**

Address : **CL.BIDS@NCH.COM**

Street : **2727 CHEMSEARCH BLVD**

City : **IRVING**

State : **TEXAS** **Country :** **USA** **Zip :** **75062**

Principal Contact : **TONI L. BOYD**

Vendor Contact Phone: **800-527-9919** **Extension:** **0563**

FOR INFORMATION CONTACT THE BUYER
John W Estep
304-558-2566
john.w.estep@wv.gov

Vendor Signature X **FEIN#** **75-0457200** **DATE** **01/27/2026**

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION
ADDENDUM NO_1 Addendum No_1 issued to publish and distribute the attached information to the Vendor Community REQUEST FOR QUOTATION: The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Highways (WVDOH) to establish an open-end contract for Solar Direct Inject Dosing Unit or Equal and Additives to enhance the quality performance and stability of the WVDOH diesel fuel supply. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

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83 BRUSHY ROAD CROSSING, PO BOX 610		83 BRUSHY FORK RD CROSSING	
BUCKHANNON	WV	BUCKHANNON	WV
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Solar Direct Inject Dosing Unit	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
15000000			

Extended Description:
Solar Direct Inject Dosing Unit

INVOICE TO		SHIP TO	
DIVISION OF HIGHWAYS		DIVISION OF HIGHWAYS	
EQUIPMENT DIVISION RT 33		EQUIPMENT DIVISION	
83 BRUSHY ROAD CROSSING, PO BOX 610		83 BRUSHY FORK RD CROSSING	
BUCKHANNON	WV	BUCKHANNON	WV
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Diesel Mate All Season Additive 55 Gallons	0.00000	DRUM		

Comm Code	Manufacturer	Specification	Model #
15000000			

Extended Description:
Diesel Mate All Season Additives 55 Gallon

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS	DIVISION OF HIGHWAYS
EQUIPMENT DIVISION RT 33	EQUIPMENT DIVISION
83 BRUSHY ROAD CROSSING, PO BOX 610	83 BRUSHY FORK RD CROSSING
BUCKHANNON WV	BUCKHANNON WV
US	US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Tank Tonic Additive	0.00000	CASE		

Comm Code	Manufacturer	Specification	Model #
15000000			

Extended Description:
Tank Tonic Additive Case of 12

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS	DIVISION OF HIGHWAYS
EQUIPMENT DIVISION RT 33	EQUIPMENT DIVISION
83 BRUSHY ROAD CROSSING, PO BOX 610	83 BRUSHY FORK RD CROSSING
BUCKHANNON WV	BUCKHANNON WV
US	US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Fuel Testing/Analysis Services per Test	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
60101727			

Extended Description:
Fuel Testing/Analysis Services per Test

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Pre-Bid Meeting 10:00am - WVDOH Equipment Div-Buckhannon	2026-01-07
2	Tech Questions due by 10:00am	2026-01-15

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions