Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder : 438901

Solicitation Description : Locomotive Traction Control Unit

Proc Type : Agency Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2018-05-16 11:00:00	SR 0804 ESR05141800000005226	1

VENDOR

VS0000016029

ZTR Control Systems LLC

Solicitation Number: ARFQ 0804 RMA1800000002

Total Bid : $0.00 **Response Date:** 2018-05-14 **Response Time:** 16:25:14

Comments:

FOR INFORMATION CONTACT THE BUYER

Dusty J Smith

(304) 558-9398
dusty.j.smith@wv.gov

Signature on File **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	Traction Control System	0.00000	EA	$51,806.000000	$0.00

Comm Code	Manufacturer	Specification	Model #
73161603			

Extended Description : Traction Control System for SBVR 102 - (GP38) locomotive

Comments: Control system per spec: $39,000 One-time engineering charge: $3,800 Installation, training, and start-up: $9,006 Delivery: 10-12 weeks

ZTR Control Systems

8050 State Highway 101, Minneapolis, Minnesota 55379, 952-233-4385
955 Green Valley Road, London, Ontario N6N 1E4, 519-452-1233

May 14, 2018

West Virginia State Rail

Quote to Provide a ZTR NEXSYS III-i™ Control System for a SD40 Locomotive

Quote #SCC20160519

This quote provides pricing for the engineering and hardware from ZTR Control Systems, for a NEXSYS III-i control system, to be installed in an SD40 locomotives owned by West Virginia State Rail.

Optional items are quoted below such as on-site commissioning, schematics etc…System hardware is priced individually and additional systems can be purchased at that price if additional engineering services are not required.

The price is as follows:

	System Hardware Price Each
ZTR Control's NEXSYS III-i System for Application to SD40 locomotive as defined above.	$39,000.00
One Time Engineering Fee (due to application changes)	$3,800.00

OPTIONAL:

New Schematic after NEXSYS IIIi Installed	$4,500.00

ZTR
Control Systems

8050 State Highway 101, Minneapolis, Minnesota 55379, 952-233-4385
955 Green Valley Road, London, Ontario N6N 1E4, 519-452-1233

All pricing is in US Dollars, FOB London, Ontario, Canada. Any applicable taxes, duties or shipping charges are the responsibility of the customer. ZTR Control System's will hold these prices firm for all purchase orders placed within 90 days of the date of this letter.

System functionality quoted is similar to or exceeds that of the removed control system. System Specification supplied as a separate document with this quote. If quote is accepted and a Purchase Order is released to ZTR, a firm lead time will be provided. Current lead time is 10 to 12 weeks.

Note: Hardware and design Not provided by ZTR:
The customer will be provided a list of relays and contactors to purchase and re-install (removed during CLC installation) for reasons of safety redundancies.
Other than basic Major Motor electrical configuration, ZTR will not design nor provide hardware beyond a NEXSYS Communications Cable, the related control system hardware, software for the control system and diagnostic software for electrical circuits for the locomotive.

Please advise if you have any questions relative to any of this information.

Thank You,

Jacob Dahle

Jacob Dahle
Account Manager
612-289-0230

RFQ SBVR 102

The State Rail Authority of West Virginia (WVSRA) is requesting quotes for the procurement of a Locomotive Traction Control system with built in engine Start Stop function. System to be installed (by customer) and will be applied on GP38 type locomotive. The State Rail Authority will supply electrical prints to winning bidder to assist in providing instructions, new modified prints and any other items as necessary. (note) The supplied prints to be returned to WVSRA.

Vendor to supply the following items, functions, services, and instructions.

1.) Traction control CPU unit complete with start stop feature along with USB port for downloading diagnostic and alarm data and color interface display to provide real time system alarms and inputs / outputs status. System will include complete instructions necessary for customer installation of all items.

2.) CPU to control the following, wheel slip, wheel creep, loading of main generator, cooling fans, air compressor loading, sanding, transition, dynamic brake, self-loading feature, alarms, ground relay reset, engine speed, speedometer, Battery field driver (if applied), engine governor. System will work with Multi Unit Locomotives.

3.) CPU to control all necessary contactors, relays, circuits, lights, magnet valves, and systems as necessary for proper function.

4.) Traction Control System will include (but not limited to) the following items if applicable. Any relays, contactors, lights, valves, Axel Generators with adaptors, connectors, adaptors, diodes, capacitors, wiring and cabling, transducers, transformers, resistors, rheostats, probes, terminal boards, battery field driver, SCR panel, sensors, displays, meters, breakers, pipe fittings, hoses, USB ports, interface cables, software, switches, labeling, and manuals. All specialty items required are included and all standard shop/locomotive components and consumables are not included and a list of them will be supplied during the project.

5.) Auto start stop feature must have low water / low oil override feature along with governor oil booster pump. System will provide manual override to prevent auto stop from stopping engine for a maximum of 60 minutes. Auto stop start feature will provide downloadable reports as to fuel usage/savings. Auto start stop feature will control locomotive lights during shut down and provide audible alarm for abnormal operating conditions as well as status indicator lights. Start Stop system will not have high idle feature and will monitor engine water temperature, ambient air temperature, battery voltage, and reverser position.

6.) Vendor will provide 2 years support to begin after initial commissioning of system. Vendor support to include tech support as well as software modifications. Vendor to provide support technician's name and direct phone number. We don't do dedicated support personnel rather it is a group. We do have 24/7 tech support so that may be flexible. Also any software revisions required for proper operation (excluding functional updates requested by the customer) are included for the two years.

System must include operating, trouble shooting and maintenance guides and modified electrical prints.

Locomotive will transition to parallel @ 22MPH.

CPU will interface with laptop computer via USB connections and programing / software must be compatible with Windows 7 & 10

Emergency Sanding will have a maximum 5-minute time limit.

ZTR™

Domestic Locomotive Field Service
Tech Service Estimate

Customer:	West Virginia State Rail Authority	**Date:**	February 12, 2018
Site Name:	West Virginia	**Purchase Order # :**	TBD
Address:		**W/O / Reference # :**	TBD
Scope:	Commission a NEXSYS III-I control system on an SD40 locomotive	**Project Number:**	TBD
		ZTR Personnel:	Steve Cable
		Date of trip:	TBD

Technical Assistance or Training Services	Number of Hours/days	Rate	Unit	Total (USD)	Comments
Field Service / Start-up / Training					
Standard Per Day Basis*	5	$760.00	per day	$3,800.00	5 days on site commissioning
Weekend Per Day	2	$1,140.00	per day	$2,280.00	Travel Days
Per Hour Basis		$142.50	per hour	$0.00	Over 8 Hrs (Overtime Rate)
Accommodation	6	$120.00	per night	$720.00	
Airfare (USD)		$1,000.00	total	$1,000.00	
Meals/Misc	7	$70.00	per day	$490.00	
Car Rental Per Day basis		$100.00	per day	$0.00	
Per Week basis	1	$450.00	per week	$450.00	
ZTR Automobile mileage		$0.50	per mile	$0.00	
Miscellaneous Expenses			total	$0.00	additional installation material

Subtotal	$8,740.00	
10% Admin. Charge**	$266.00	
Total Estimated Cost***	**$9,006.00**	**USD**

Note:

Daily rate for labor includes all portions of a eight hour day, including travel.

****10% admin charge includes all expenses including hotel, meals,car rental, and mileage.***

***** This is the total estimated cost. Actual cost will be invoiced accordingly.***

***** Quotes Valid for 60 Days***

Approved Date

Document: FS-Invoicing Daily
Rev: H
Date: 6/27/2017