



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

Request for Quotation

RFQ NUMBER
DPS0660

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BETTY FRANCISCO 304-558-0468

VENDOR

*709042444 304-776-4091
 ELECTRONIC COMMUNICATIONS WV I
 408 OLD GOFF MOUNTAIN ROAD
 CROSS LANES WV 25313

SHIP TO

DEPARTMENT OF PUBLIC SAFETY
 4124 KANAWHA TURNPIKE
 SOUTH CHARLESTON, WV
 25309 746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
05/22/2006				

BID OPENING DATE: 06/15/2006 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
REQUEST FOR QUOTATION						
THE PURCHASING DIVISION IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO FURNISH A LOW BAND 100 WATT SOLID STATE BASE STATION TO THE WEST VIRGINIA STATE POLICE, COUNTY AGENCIES, AND MUNICIPALITIES.						
ATTACHMENTS:						
1. SPECIFICATIONS						
2. BID FORM						
3. AFFIDAVIT						
QUESTIONS:						
WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH JUNE 7, 2006, 2:00 PM EASTERN. QUESTIONS MAY BE SENT VIA EMAIL (PREFERRED METHOD), USPS, FAX, COURIER, OR MAIL. IN ORDER TO ASSURE NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTIONS WILL BE ANSWERED ORALLY. ADDRESS INQUIRIES TO:						
JOHN ABBOTT, SENIOR BUYER DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25311 FAX: (304) 558-4115 EMAIL: JABBOTT@WVADMIN.GOV						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
-----------	-----------	------

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
-------	------	-----------------------------------

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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

Request for Quotation

RFQ NUMBER
DPS0660

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BETTY FRANCISCO
304-558-0468

VENDOR

*709042444 304-776-4091
 ELECTRONIC COMMUNICATIONS WV I
 408 OLD GOFF MOUNTAIN ROAD
 CROSS LANES WV 25313

SHIP TO

DEPARTMENT OF PUBLIC SAFETY
 4124 KANAWHA TURNPIKE
 SOUTH CHARLESTON, WV
 25309 746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
05/22/2006				

BID OPENING DATE: **06/15/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		725-27	\$15,531.00	
	LOW BAND 100 WATT SOLID STATE BASE STATION					
***** THIS IS THE END OF RFQ DPS0660 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Hank Dawson</i>	TELEPHONE 776-4091	DATE 6/15/06
TITLE ECT Sales Representative	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Low Band 100 Watt Solid State Base Station Specifications

Purpose

The West Virginia State Police is requesting competitive bids for a Low Band (42-50 MHz) Solid State Base Station as per the attached specifications. The contract shall be available for use by all other entities of state government, as well as counties and municipalities.

General Specifications

Station shall be mounted in an 84" aluminum rack. Service speakers for each receiver and a service microphone will be provided. Each speaker will be individually adjustable.

A 72" cabinet shall be available as an option, and listed on the bid form as a separate line item. The front and rear doors shall be removable, and both shall be capable of being locked with the same key.

Station shall be capable of a 100% transmit duty cycle (Continuous duty).

Station shall be capable of functioning from -30°C to +60°C. Station shall include full metering capability built into each cabinet. All metering shall take place at centralized metering sockets for the receiver and transmitters. Auxiliary receivers shall have the same capability, and metering shall be functional in these stations. If metering in the auxiliary receivers requires a "portable" test set, one shall be included. The metering test set shall not be a VTVM or equivalent, but rather a piece of test equipment capable of performing readings from a centralized metering jack by means of switch settings on the meter. Minimum metering shall include Forward & Reverse power measurement, Power supply voltage, and Receiver IF signal strength level.

Any and all programming and diagnostic software available shall be provided. Programming that is necessary shall take place from a Windows based computer. Any interfacing hardware necessary that is proprietary to the manufacturer shall be provided with each radio.

Installation and Service Manuals: A complete and comprehensive installation and instruction manual shall be supplied as part of the radio equipment, including all options. The manual shall provide complete service information, including theory of operation, schematics, layout drawings and parts list to permit quick and efficient maintenance or repair of the equipment by a technician.

Power Supply: Station shall be operated on 120 volts standard AC line voltage. The Power supply shall include lightning protection. Optional standby battery source power will be priced as an option, but not included in the standard station pricing.

Transmitter: Stations must be capable of delivering at least 100 watts RF to the output terminals of the transmitter when the output terminals are connected to an antenna or load with a nominal impedance of 50 ohms. Station shall be capable of operating on two frequencies to be specified at time of award. Transmitter shall operate at Full Specifications with a transmitter bandwidth not less than .25 MHz. Transmitter shall consist of all solid state components. Station shall have an output RF impedance of 50 ohms. Spurious and Harmonic Emission shall be -70 db or greater. Frequency stability shall be $\pm 0.0005\%$ or better. Modulation deviation shall be ± 5 kHz. Audio distortion shall be less than 3%. Transmitter exciter shall be capable of transmitting a full 50 watts, and of being connected to allow independent operation of the exciter in continuous duty mode at full power in the event of failure of the power amplifier module.

Receiver: Receivers shall have single frequency capability with rated EIA 12dB SINAD of .251 microvolts or less. 20dB Quieting shall be achieved at .354 microvolts or less. Receivers shall have a modulation acceptance of ± 7.5 kHz. Inter-modulation at 20kHz shall be -80 dB or better. Spurious and Image rejection shall be -90 db or better. Audio output shall be 5 watts with less than 3% distortion. Receivers shall have independent, programmable CTCSS decoders. It shall be possible to disable the CTCSS decoders by means of an external switch provided.

Station shall have the capability for four independent receivers. All receivers shall be self contained and function independently of each other with regard to power supply, audio and control circuitry. An antenna matching/preamplifier (multi-coupler) shall be employed to enable fully rated specification on each receiver with no degradation. Receivers shall have noise blanking. A carrier operated relay shall be provided with 2 form C outputs available at the system plug for each receiver. Audio shall be available at a screw type terminal strip near each receiver. Each receiver shall be provided with an independent speaker, which may be disabled while causing receiver output levels to remain unchanged. A common terminal strip area shall be provided to allow for CTCSS enable/disable and COR output to be accessed for all receivers.

Two receivers described above will be provided. As an option, two additional receivers may be added and listed on the bid form as a separate line item. All circuitry for all four receivers will already be in place in the station, and the receivers will plug in and be operational.

A Doug Hall Electronics Receiver Line Card (RCL) will be provided and installed in the station enabling all four receivers to be selected to vote. RLC input will be from the unsquelched receiver discriminator audio. Utilization of the squelched 600 ohm receiver audio output is not acceptable.

These receivers shall be configured to operate in a priority arrangement, with all audio sources being available at one connection point with an impedance not lower than 600 ohms. The prioritization shall cause receivers to mute when a "higher level" unit is operating. Priority may be illustrated as follows:

- Recvr. 1 Priority 1 (muted only by transmitter)
- |
- Recvr. 2 Priority 2 (muted when Recvr. 1 or transmitter active)
- |
- Recvr. 3 Priority 3 (muted when Recvr. 1 or 2 or transmitter active) (Optional)
- |
- Recvr. 4 Priority 4 (muted when Recvr. 1, 2 or 3 or transmitter active) (Optional)

Control Circuitry: Station shall contain interfacing hardware to allow station to be utilized with 600 ohm telephone line utilizing standard tone control, or connected to radio link type equipment, utilizing 600 ohm input and output circuits for audio connections. Station shall have circuitry to allow for transmit frequency to be changed from a remote location.

Audio circuitry shall be provided for all receivers to be combined into a single 600 ohm audio output, prioritized as indicated.

OPTIONS:

- 1) Option to increase power of transmitter to 250 watts RF output
- 2) Battery backup capability (batteries not included)
- 3) Each additional receiver (maximum two additional)
- 4) Mount radio in 72" cabinet

BID FORM - DPS0660 - LO-BAND SOLID STATE BASE STATION

ITEM DESCRIPTION	QTY.	UNIT PRICE
Low Band 100 Watt Solid State Base Station	1	\$ 15,531. ⁰⁰
84" Aluminim Rack	1	\$ See Attached Sheet
OPTIONS:		
250 Watt Transmitter - RF Output	1	\$ See Attached
Battery Backup (batteries not included)	1	\$ Breakout Sheet.
Additional Receivers (Maximum purchase qty. = 2)	1	\$
Mounted in 72" Cabinet	1	\$
Grand Total		\$

BIDDER / VENDOR INFORMATION:

Name: Hank DAVIS/Electronic Communications
 Address: 408 OLD Goff Mtn Road
Crosslanes Wv. 25313
 Phone#: 304-776-4091
 Email: Davis Tornado (A) Adl. Com

CONTRACT COORDINATOR INFORMATION:

Name: _____
 Address: _____

 Phone#: _____
 Email: _____

WVSP DSP0660 Bid
Base Tech II Low Band Base Stations
with Remote Termination, Voting Receivers and Lightning Protection

Model #	Description	Parts needed (1 ea. Unless noted)	wvsp price
71-0110BC-WVSP DSP0660	Low Band VHF Base Tech II Rack Mounted Base Station 50-100 W TX Power, 99 channel capable, Multi-Mode, Prog CTCSS		
	100W Radio Shelf TX and RX #1	71-0110C	\$ 3,530.00
	Antenna Relay with DC Power Cords & RF Cabling	71-7801	\$ 644.00
	84" Aluminum Relay Rack	71-8880	\$ 705.00
	Power Supply	71-7125A	\$ 495.00
	Tone Remote Termination	71-2020A	\$ 826.00
	Voting Kit Main RX	71-2045T	\$ 590.00
	Tone Line Surge Protection (X3)	71-7206 (x3) <i>763.00 ea</i>	\$ 2,289.00
	AC Lightning Protection	71-7207	\$ 368.00
	RF Line Surge Protection	71-7655A	\$ 149.00
	Grounding Kit	71-8845-2	\$ 99.00
	Support Rails for TX/RX Unit (Rack)	71-8879	\$ 156.00
	LB Aux RX # 2	71-0150C-AUX	\$ 1,412.00
	Support Rails for RX Unit (Rack)	71-8879	\$ 156.00
	Voting Kit AUX RX	71-2045T	\$ 590.00
	Receiver Multicoupler*	71-SDU500*	\$ 2,200.00
	RX Cabling (RX to Multicoupler)	70-033063 (X2) <i>149.50 ea</i>	\$ 339.00
	Power Supply, Aux RX	70-RM20M-BB	\$ 286.00
	DC Power Cord	71-0033	\$ 50.00
	Service Manual Package	71-0110BSM	\$ 64.00
	Programming Kit, Cable and CD-ROM	71-1480	\$ 230.00
	Assemble, Test and Tune	97-2907	\$ 353.00
	* = item not yet in MAS system		
	Note: Rack Version sent DISASSEMBLED	Total	\$ 15,531.00
OPTIONS	250W Package		
	250 Watt Power Amplifier with Power Supply	71-PA1-3FF-HMS	\$ 8,350.00
Aux Receiver	Aux Receiver (each) Rack Mount		\$ 2,715.00
	LB Aux RX (# 3 or # 4)	71-0150C-AUX	\$ 1,415.00
	Support Rails for RX Unit (Rack)	71-8879	\$ 156.00
	Voting Kit AUX RX	71-2045T	\$ 590.00
	RX Cabling (RX to Multicoupler)	70-033063	\$ 339.00
	Power Supply, Aux RX	70-RM20M-BB	\$ 286.00
	DC Power Cord	71-0033	\$ 50.00
	Assemble, Test and Tune	97-2905	\$ 53.00
	Aux Receiver (each) Cabinet Mount		\$ 2,595.00
	LB Aux RX (# 3 or # 4)	71-0150C-AUX	\$ 1,415.00
	RX Cabling (RX to Multicoupler)	70-033063	\$ 170.00
	Support Rails for RX Unit (cabinet)	71-8082	\$ 33.00
	Voting Kit AUX RX	71-2045T	\$ 590.00
	Power Supply, Aux RX	70-RM20M-BB	\$ 286.00
	DC Power Cord	71-0033	\$ 50.00
	Assemble, Test and Tune	97-2905	\$ 53.00
Cabinet Option	Cabinet, 67" With Doors, Net cost		\$ 656.00
	Cabinet, 67" With Doors	71-8845	
	Hardware Kit, Cabinet	71-8845-1	
	Rack Credit	71-8880	
	Support Rails, 3 sets for standard configuration,	71-8082 (x3)	
	Support Rails (Rack) Credit, 3 sets for standard configuration,	71-8879 (x 3)	
Exceptions to Bid	1. 67" cabinet optional (vice 72")		
	2. Metering: Volts and Current draw on Power supply, No other metering available		
	3. Programming software only, no diagnostic software is used.		
	4. Battery Back up is standard, no facility for charging batteries. (vice an option)		
	5. Transmitter PA is intragal with chassis. Exciter power is 80 mWatts (vice 50W)		
	6. Carrier operated Relay has 1 form C relay contact. (vice 2)		
	7. Do not have facilities for combining all 600 ohm audio pairs to single audio pair (5 pair into one pair, 1950 hz Voting tone would not be valid)		

A F F I D A V I T

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions.

"Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Electronic Conveyors

Authorized Signature: Hank Davis Date: 6/15/09