



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
DPS0830

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**JOHN ABBOTT
 304-558-2544**

VENDOR

**RFQ COPY
 TYPE NAME/ADDRESS HERE**

SHIP TO

**WEST VIRGINIA STATE POLICE

 4124 KANAWHA TURNPIKE
 SOUTH CHARLESTON, WV
 25309 304-746-2141**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/28/2008				

BID OPENING DATE: **03/19/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		730-36		
<p>COMMUNICATION SERVICE MONITORS</p> <p>OPEN-END CONTRACT TO PROVIDE COMMUNICATION SERVICE MONITORS, AND RELATED ACCESSORIES, FOR THE WEST VIRGINIA STATE POLICE, PER THE SPECIFICATIONS.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

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



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DATE PRINTED 02/28/2008	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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<p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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<p>SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p>						

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<p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM</p>						

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<p>OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p>						

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<p>BIDDER: -----</p> <p>DATE: -----</p> <p>SIGNED: -----</p> <p>TITLE: -----</p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p>						

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				RFQ. NO.:	DPS0830-----	
				BID OPENING DATE:	03/19/2008-----	
				BID OPENING TIME:	1:30 PM-----	
<p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----</p>						
<p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>-----</p>						
<p>***** THIS IS THE END OF RFQ DPS0830 ***** TOTAL: _____</p>						

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**SPECIFICATIONS FOR
COMMUNICATION SERVICE MONITORS**

The West Virginia State Police desires to establish and open end contract for the purchase of Communications Service Monitors and related accessories. This contract shall be available for use by the West Virginia State Police, Agencies of the State of West Virginia and all County Agencies and Municipalities as this will assist in the maintenance of Digital P-25 State wide interoperable radios.

The purpose of these specifications is to establish minimum requirements for communications service monitors used in the testing and maintenance of radio systems. The specifications must meet or Exceed specifications for an Aeroflex 3920 or equivalent. Any exceptions must be explained fully and vendors must complete the Bid Quotation form provided with this RFQ.

		COMPLY?	
1	<u>FEATURES</u>	Yes	No
1.1	The communications service monitor shall be a single unit with a frequency range from 1 MHz to 1.0 GHz (Upgradeable to 2.7 GHz), combining the functions of receiver/monitor, signal generator, function generator, oscilloscope, SINAD/Distortion meter, power meter and spectrum analyzer utilizing a digitally tuned synthesizer for frequency selection.	_____	_____
1.2	The monitor shall display frequency error, modulation, (modulation fidelity and symbol deviation for C4FM), power, and distortion. The RF level shall be displayed in dBm, microvolts or Watts. The monitor shall support RS-232, GPIB and Ethernet interfaces.	_____	_____
1.3	The Monitor shall support RS-232, GPBI and Ethernet Interfaces	_____	_____
1.4	The monitor shall have an AC/DC digital voltmeter	_____	_____
1.5	The monitor shall have capability of being controlled by external mouse and keyboard.	_____	_____
1.6	The monitor shall provide USB interface to transfer files and screen images	_____	_____
1.6.1	The monitor shall support USB Mouse and Keyboard control.	_____	_____
1.6.2	The unit shall operate from 100 to 120 VAC at 60 Hz. The monitor shall also operate from AC/DC Converter.	_____	_____

- 1.7 The monitor shall include a digitally compensated crystal oscillator (DCXO) time base. Temperature stability shall be ± 0.01 ppm stability; ± 0.1 ppm/year aging ± 0.2 ppm or better from 0-50 degrees C. _____
- 1.8 The monitor shall include a speaker with level control for aural monitoring of audio modulation signals. A variable squelch control shall also be included. Aural monitoring shall be available in the spectrum analyzer mode without switching the analyzer off. _____
- 1.9 Construction of the monitor shall include removable modules for easy servicing. _____
- 1.10 The monitor shall be protected against accidental application of power into the transmit/ receive port. The protection shall be accomplished without the need to change mechanical fuses. The antenna port shall be protected up to 10 watts. The protection shall also include audio and visual alarms when upper limits are exceeded. _____
- 1.11 The monitor shall have a 50-ohm internal load, capable of 50 watts continuous and 125 watts on a duty cycle at the T/R input. The duty cycle above 50 watts shall be at least 100 W CW (90 sec - 3 min cycle), 125 W CW (30 sec - 3 min cycle). The input protection shall be at least 10 watts at AUX and 10 W CW in the antenna input. _____
- 1.12 The monitor shall have the capability of storing up to 10,000 setups with labels to identify function _____
- 1.13 The monitor shall have the capability to remotely control the instrument by transferring operation screens to a PC via an Ethernet interface. _____
- 1.14 Hard Drive > 20 GB for future upgrades and storage. _____
- 1.15 The monitor shall be programmable by the end user from an external computer or laptop computer. The goal of this programmability is the generation of automatic test programs. The monitor shall be capable of storing user generated test programs and test results for archival storage. _____
- 1.16 The monitor shall have the capability to encode the following; DTMF,DCS, CTCSS. The DTMF encoder shall be capable of encoding up to 16 digits with an adjustable mark and space time of 25 to 999 msec. _____

2 **CHARACTERISTICS AND CAPABILITIES**

- 2.1 The GPIB interface shall have full remote control to activate functions and return measured results. The connector shall be a standard IEEE-488. _____
- 2.2 The Ethernet port shall allow the ability to remotely control and monitor the instrument from an external computer. _____
- 2.3 The meters in the monitor shall all have the same basic features; peak hold, upper limit, lower limit, average, and alarm. When average is enabled, the user shall have the capability to define the number of samples used for the average reading. _____
- 2.4 The monitor display shall be a TFT VGA. Size shall be 640 columns by 480 rows. Height is 3.9 inches by Width 5.15 inches. _____

3 **RECEIVER/MONITOR**

- 3.1 The monitor shall tune and receive signals over the frequency range from 1 MHz to 1 GHz with 2.7 GHz operation optional. It shall demodulate, monitor, and measure AM, FM, and C4FM signals. _____
- 3.2 The frequency shall be measured and displayed on a digital meter. Frequency error shall be measured and displayed as an offset from the digitally tuned-in frequency. _____
- 3.3 Sensitivity at the antenna input shall be typically 2 microvolts for 12 dB SINAD ratio at the receiver audio output. An internal Pre-Amp shall be available to increase the sensitivity to less than 0.5 microvolts for 12 dB SINAD. _____
- 3.4 FM deviation measurement accuracy shall be 3%, +residual, ±LSD (1 to 20 kHz deviation, 1 to 10 kHz rate) 5%, +residual, ±LSD (>20 kHz deviation, 1 to 20 kHz rate) _____
- 3.5 AM modulation measurement accuracy shall be ±2% (of full scale) + residual AM + resolution (1 kHz rate, RF Level <-40 dBm T/R, <0 dBm Gen Port) _____
- 3.6 The modulation meter shall have the following filters selectable at its input:
 - 3.6.1 Low Pass: 300Hz, 5 kHz Bessel, 15 kHz, 20kHz. _____
 - 3.6.2 High Pass: 300Hz _____
 - 3.6.3 BandPass: 300Hz to 3.4kHz , 300 Hz to 5 kHz, 300 Hz to 20 kHz, 300 Hz to 15 kHz. _____

- 3.7 The unit shall have 6.25 kHz, 12.5 kHz, 25 kHz, 30 kHz, 100kHz and 300 kHz IF Bandwidths, selectable. _____
- 3.8 The unit shall display off the air (Antenna Port) receive levels between -95 dBm and -30 dBm in both dBm and microvolts. _____
- 3.9 The unit shall have a power meter with ranges from 2 mW to 200 watts full-scale in a 1-2-5 sequence. The accuracy of the power meter shall be +/-10% +/-0.1 mW +/-1 count. The user shall be capable of compensating power meter readings by entering a cable loss. _____
- 3.10 The user shall be able to monitor the received signal on either an oscilloscope or a spectrum analyzer, while monitoring power, frequency, modulation and sub audible tones on digital meters. _____

4 RF GENERATOR

- 4.1 Frequency range of the RF signal generator shall be 1 MHz to 1.0 GHz with optional capability to 2.7 GHz. _____
- 4.2 The signal generator shall be capable of both internal and external frequency and amplitude modulation. The signal generator shall be capable of C4FM modulation with common test patterns. Front panel controls will connect the internal audio oscillator to the modulation circuitry. _____
- 4.3 The output level range shall be from (+10 to -110 dBm GENERATE PORT) (-30 to -137 dBm T/R PORT) in 0.1 dB steps. Output level can be selected to be in either dBm or microvolts. The output level accuracy shall be +/-1.5 dB or better. _____
- 4.4 Harmonic output from the signal generator shall be less than -25 dBc max > 50MHz. Non-harmonics shall be less than -40 dBc max < 1.5GHz and less than -30 dBc max > 1.5 GHz. _____
- 4.5 The unit shall have the capability of doing automatic SINAD measurements on receivers under test. _____

5 MODULATION

- 5.1 The Frequency Modulation range shall be 10 Hz to 40 kHz. Accuracy 3% + residual \pm LSD (1 to 20 kHz deviation, 1 to 10Hz rate) Accuracy 5% + residual \pm LSD (> 20kHz Deviation, 1 to 20kHz rate) _____

5.2 The Amplitude Modulation range shall be 30% to 90% with a supplemental characteristic rate from 100Hz to 3 KHz. _____
Accuracy $\pm 5\%$ (of full scale) + residual AM + resolution (1 kHz rate, RF Level < -40 dBm T/R, < 0 dBm Gen Port) _____

5.3 The Digital Modulation Formats shall be C4FM at 9.6 kb/sec. _____
 The FSK Error shall be $< 1\%$ typical, $< 2\%$ max. Project 25
 Compliant Signals will include: 1011 Hz tone, 5% BER
 calibration tone, Speech (repeated test phrases), Silence, Voice
 from audio inputs, Interference, Busy, Idle, and 511. _____

6 SELECTIVE RF COUNTER, RF FREQUENCY ERROR METER AND FREQUENCY MODULATION METER

6.1 The selective RF counter shall have a range of from 1 MHz to
 1.0 GHz with optional operation to 2.7 GHz. _____

6.2 The RF frequency error meter shall have a meter range from 0
 Hz to 100 kHz and a meter resolution of 1 Hz (10 sec gate time)
 and 10 Hz (1 sec gate time). _____

6.3 The FM Deviation meter shall have:

6.3.1 **Ranges** including 5 kHz, 10 kHz, 20 kHz, 50 kHz, 100
 kHz, Auto. _____

6.3.2 **Resolution** of 10Hz _____

6.3.3 **Demod Output Sensitivity** shall be 1Vpp = 5kHz typical. _____

6.3.4 **Accuracy** shall be $\pm 5\%$, ± 2 LSD +residual FM (12.5 kHz
 bandwidth, @1kHz rate, deviation > 1 kHz and < 5 kHz)
 $\pm 5\%$, ± 2 LSD +residual FM (25 kHz bandwidth, 1 kHz
 rate, deviation > 1 kHz and < 10 kHz) $\pm 7\%$, ± 2 LSD
 +residual FM (200 kHz bandwidth, 50 to 20 kHz rate,
 deviation > 5 kHz and < 40 kHz) _____

7 SPECTRUM ANALYZER

7.1 The monitor shall be able to serve as a spectrum analyzer over
 the frequency range from 1MHz to 1.0 GHz with optional
 operation to 2.7 GHz. _____

7.2 The display shall be calibrated logarithmically. The scales shall
 be selectable between 10, 5 and 2 dB per division. _____

7.3 The spectrum analyzer shall have span widths from 0 span
 1kHz to 1 GHz in a 1/2/5 sequence. _____

- 7.4 The spectrum analyzer shall have the capability of viewing signals down to -120 dBm. _____
- 7.5 The spectrum analyzer shall have 2 markers. Frequency and Power level at each marker shall be displayed. _____
- 7.6 The spectrum analyzer shall have store, recall, and compare, for comparison of a stored trace to a live trace. The spectrum analyzer shall also have a peak hold mode. _____

8 AUDIO OSCILLATORS

- 8.1 The test set shall have two Base-Band inputs and three Audio Frequency Generators. _____
- 8.2 The Base Band (Audio In/ MIC In) shall have a frequency range of 50Hz to 20kHz (balanced or unbalanced) _____
- 8.3 Audio generators shall be capable of generating DTMF, DCS, and CTCSS. _____
- 8.4 The Base Band (Audio In) shall have an input level range of 200mVpp to 20Vpp. The Base Band (MIC IN) shall have in input level range of 10mVpp to 1Vpp. _____

9 DUPLEX

- 9.1 The monitor shall be capable of generating test signals and receiving simultaneously. _____
- 9.2 The user shall be able to input positive and negative frequency offsets up to 1.0 GHz in 1Hz steps. _____
- 9.3 During duplex operation, the user shall be able to access meters, spectrum analyzer or oscilloscope. _____

10 OSCILLOSCOPE

- 10.1 The oscilloscope shall provide dual channel external inputs. _____
- 10.2 A front panel BNC connector shall be provided for external input of Channel 1, 2 Mic input, Audio I/O. _____
- 10.3 Input voltages up to 100 volts shall be allowable without the need for attenuated probes. _____
- 10.4 The vertical input accuracy shall be $\pm 10\%$ of full scale (DC to 50 kHz, source impedance $< 100 \Omega$). _____

10.5 The scope shall be capable of internally monitoring the following; AM, FM, detector output, demodulator output connector, audio frequency counter, modulation meter, and RF power detector.

11 **SINAD METER, DISTORTION METER, AF FREQUENCY COUNTER AND VOLT-METER**

11.1 The SINAD meter shall have an accuracy of ±1 dB ±1 LSD @ 1 kHz rate and 12 dB SINAD, with 0.1 dB resolution.

11.2 The signal frequency for the SINAD and distortion meter shall be 1 kHz.

11.3 The distortion meter shall have an accuracy of ±1.5% ±1 LSD @ 1 kHz rate @ 5% distortion

11.4 The AF frequency counter shall have a range from 200 Hz to 20kHz with a resolution (1 sec gate time) of 0.1 Hz (1 sec gate time, 10 Hz to 500 Hz) 1Hz (1 sec gate time, >500 Hz to 20 kHz) 0.1 Hz, (10 sec gate time).

11.5 The voltmeter shall be capable of measuring voltages from 400 mV to 100VDC and 400 mV to 100 Vrms.

11.6 The voltmeter shall have ranges from 400 mV to 100 V in a 1-2-5 sequence. The resolution shall be 0.1 mV (0.4 V scale), 1.0 mV (1, 2, 4 V scales), 10 mV (10, 20, 40 V scales), 100 mV (100 V scale)

11.7 The voltmeter accuracy shall be 6% of full scale (50 Hz to 20 kHz) ±1 LSB.

12 **OTHER**

12.1 **REQUIRED OFFERING OF ACCESSORIES AND OPTIONS**

12.1.1 The monitor shall offer the following accessories and the vendor shall include prices for each accessory as a separate item in the return bid:

12.1.2 Microphone

12.1.3 Maintenance Manual/No Software

12.1.4 Transit Case W/Wheels

12.1.5 Case, Soft Padded Carrying

12.1.6 10/20 db Pads, TNC

12.1.7	Scope Probe Kit	_____	_____
12.1.8	UHF Antenna (Supplied as standard	_____	_____
12.1.9	Front/Rear Cover	_____	_____
12.1.10	AC/DC Converter	_____	_____
12.1.11	RF Connector Kit	_____	_____
12.1.12	RF Cable	_____	_____
12.1.13	TNC to BNC Adapter	_____	_____
12.1.14	Accessory Pouch	_____	_____

12.2 OPTIONS

12.2.1	SmartNet™/SmartZone™ VHF/UHF and 800 MHz	_____	_____
12.2.2	P25 Trunking	_____	_____
12.2.3	P25 CAI	_____	_____
12.2.4	AES Encryption	_____	_____
12.2.5	LSM Advanced / P25 - 2 Advanced	_____	_____
12.2.6	KVL Keyloader Option	_____	_____
12.2.7	Auto-Test Programming Environment	_____	_____
12.2.8	Audio Analyzer	_____	_____
12.2.9	Harmonic and Spurious Analysis	_____	_____

13 WARRANTY

13.1	The monitor shall have a two year warranty against defective parts and workmanship.	_____	_____
13.2	Warranty Extension one year (total warranty three years)	_____	_____
13.3	Warranty Extension three years (total warranty five years)	_____	_____

**PRICE LIST
COMMUNICATION SERVICE MONITOR
&
OPTIONS**

Service Monitor Make - _____ Model - _____ **Price**

REQUIRED OFFERING OF ACCESSORIES AND OPTIONS

- 1) Microphone _____
- 2) Maintenance Manual/No Software _____
- 3) Transit Case W/Wheels _____
- 4) Case, Soft Padded Carrying _____
- 5) 10/20 db Pads, TNC _____
- 6) Scope Probe Kit _____
- 7) UHF Antenna (Supplied as standard _____
- 8) Front/Rear Cover _____
- 9) AC/DC Converter _____
- 10) RF Connector Kit _____
- 11) RF Cable _____
- 12) TNC to BNC Adapter _____
- 13) Accessory Pouch _____

OPTIONS

- 14) SmartNet™/SmartZone™ VHF/UHF and 800 MHz _____
- 15) P25 Trunking _____
- 16) P25 CAI _____
- 17) AES Encryption _____
- 18) LSM Advanced / P25 - 2 Advanced _____
- 19) KVL Keyloader Option _____
- 20) Auto-Test Programming Environment _____

21) Audio Analyzer

22) Harmonic and Spurious Analysis

WARRANTY

23) Warranty Extension one year (total warranty three years)

24) Warranty Extension three years (total warranty five years)

TOTAL

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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 owed 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 exceed 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: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

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: _____

Authorized Signature: _____ Date: _____