

CITY OF HUTCHINSON
SEALED BID FORM

Please quote your delivered prices to the City of Hutchinson on items or services listed below. Consult attached minimum and general specifications for requirements. **This is not an order.**

BID NO. 10-96 BID SUBMITTAL DEADLINE: 12:00 P.M. C.S.T. on February 23, 2010
PUBLIC BID OPENING TIME: 1:30 P.M. C.S.T. ON February 23, 2010

INSTRUCTIONS:

THIS FORM MUST BE PROPERLY FILLED OUT AND RETURNED BY MAIL OR IN PERSON TO : The City Of Hutchinson, City Clerk's Office in the Finance Department, 125 East Avenue B, P.O. Box 1567, Hutchinson, Kansas 67504-1567. RETURN PRIOR TO 12:00 P.M. CST on February 23, 2010. Bids are to be made on this SEALED BID FORM, sealed in an envelope clearly marked with the BID NUMBER stated at the upper left portion of this sheet (to avoid premature opening of the Bid), and returned to the City Clerk's Office (see above address). **Failure to mark your Bid may cause your Bid to not be considered during official opening.** Bids will be publicly opened and read at the above stated time in the Public Works Conference Room, 1500 South Plum, Hutchinson, Kansas. **Bid not submitted pursuant to the conditions set out in this request may be rejected. All Bids received after the stated opening date and time will be returned unopened to the vendor.** Vendors wishing to remain on the vendor list should return this bid with a bid or a written request to remain on the vendor list. Questions may be directed to: Marjorie K. Bryant, Purchasing Manager, City of Hutchinson (620)694-1970 OR (620)694-1900

The City of Hutchinson reserves the right to reject part or all of any bid and to waive formalities. All bids are subject to Purchasing Policies set by the City Council of Hutchinson. The City of Hutchinson reserves the right to divide purchases among venders to accomplish the best gross price and to make the final decision as to acceptability of quality and price.

ITEM NO	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
#1	1 Complete Unit	Service Monitor. <u>All Specifications, Options and accessories list are to be included in bid. Vendor Must return signed specification sheet with bid.</u> Units shall be delivered as per attached specifications on or before March 1, 2010.		
Additional cost for Three (3) Year Service Plan (R8-3Y)				
Additional cost for Five (5) Year Service Plan (R8-5Y)				
TOTAL REQUEST FOR BID IF ALL ITEMS ARE ORDERED FROM YOUR COMPANY AT ONE TIME INCLUDING ALL DISCOUNTS				
<u>VENDORS WISHING TO REMAIN ON THE VENDOR LIST MUST RETURN THIS BID WITH A BID OR A WRITTEN REQUEST TO REMAIN ON THE VENDOR LIST</u>				

IN SUBMITTING THE ABOVE, THE VENDOR EXPRESSLY AGREES THAT UPON PROPER ACCEPTANCE BY THE CITY OF HUTCHINSON, A CONTRACT SHALL THEREBY BE CREATED. THIS BID FORM MUST BE SIGNED!

SIGNATURE _____

TITLE _____

ORDERING ADDRESS/CONTACT:

REMITTANCE ADDRESS (IF DIFFERENT):

BIDDER COMPANY NAME _____

REMITTANCE NAME _____

STREET ADDRESS _____

REMITTANCE ADDRESS _____

CITY/STATE/ZIP _____

REMITTANCE CITY/STATE/ZIP _____

PHONE NUMBER _____

E-MAIL ADDRESS _____

FAX NUMBER _____

CERTIFICATE OF NON-DISCRIMINATION

The undersigned Contractor hereby agrees to observe all the provisions of Chapter 3 of the Code of the City of Hutchinson, Kansas, 1988, and any subsequent amendments thereto and provisions of K.S.A. 44-1030 and 1031, as amended, including subsection (a), paragraphs (1) through (5) inclusively of Section 1030, which reads as follows:

- (1) the Contractor shall observe the provisions of the Kansas Act Against Discrimination and shall not discriminate against any person in the performance of work under the present Contract because of race, religion, color, sex, disability, national origin or ancestry;
- (2) in all solicitations or advertisements for employees, the Contractor shall include the phrase, "Equal Opportunity Employer," or a similar phrase to be approved by the Commission;
- (3) if the Contractor fails to comply with the manner in which the Contractor reports to the Commission in accordance with the provisions of K.S.A. 44-1031, and amendments thereto, the Contractor shall be deemed to have breached the present Contract and it may be canceled, terminated or suspended, in whole or in part, by the contracting agency;
- (4) if the Contractor is found guilty of a violation of the Kansas Act Against Discrimination under a decision or order of the Commission which has become final, the Contractor shall be deemed to have breached the present Contract and it may be canceled, terminated or suspended, in whole or in part, by the contracting agency; and
- (5) the Contractor shall include the provisions of subsections (a) 1 through 4 in every subcontract or purchase order so that such provisions will be binding upon such subcontractor or vendor.

Signing of this certificate acknowledges inclusion of the same in the base Contract before signing thereof and acceptance of the terms of this certificate.

Date _____ Name of Contractor _____
By _____
Name and Title

CERTIFICATION OF PAID PERSONAL AND REAL ESTATE TAXES

In compliance with City of Hutchinson purchasing policies, the following certification on property owned within Reno County must be completed and returned with the quotations in accordance with the City's policy on delinquent property taxes.

- A. _____ "The owner(s) or corporation hereby certifies that all personal and real estate taxes within Reno County are paid."
- B. _____ "No property is owned by the owner(s) or corporation within Reno County."

DATE: _____ SIGNATURE: _____
COMPANY: _____ NAME OF SIGNEE: _____
TELEPHONE NUMBER: _____ TITLE OF SIGNEE: _____

PLEASE NOTE: This form is to be attached to the proposal when the quotation is submitted.

Bid 10-96 – Item #1
SERVICE MONITOR
General Dynamics R8000A Communication System Analyzer, 1GHz
PAGE 1 OF 5

Meets Specification: **Exception to Specification:**

OPERATING/DISPLAY MODES:

❖ AM/FM Monitor		
❖ AM/FM Generator		
❖ Audio Synthesizer		
❖ Spectrum Analyzer		
❖ Duplex Generator		
❖ Tracking Generator		
❖ Dual Scope		
❖ AM Modulation Meter		
❖ Cable Fault Locator		
❖ Frequency Counter		
❖ Frequency Error Meter		
❖ Digital Voltmeter		
❖ Power Meter		
❖ Oscilloscope		
❖ Signal Strength Meter		
❖ SINAD/Distortion Meter		
❖ FM Deviation Meter		
❖ APCO Project 25 Trunking		

GENERAL:

❖ Displayed Average Noise Level (DANL): -120dBm (50 Ohm input termination)		
❖ Dynamic Range: 80 dB		
❖ Input Relation Spurious: -60 dBc max		
❖ Residual Spurious (non-input related): -70 dBm		
❖ DC Power Requirements: 24VDC @ 5.0 A max, including AC adapter		
❖ Batter Power: Including External Battery		
❖ Battery Operation: 1 hour minimum		
❖ Weight: <14 lbs. (6.4 kg)		
❖ Diminensions: 9.4 High, 12.7" Wide, 7.5" Deep		
❖ Operating Temperature: 0° to 50° C		
❖ Storage Temperature: -30° to +80° C		
❖ Warranty: Standard: One Year		

GENERATOR (RECEIVER TEST):

❖ Port Protection Limit: 50W for 30 Seconds		
❖ Frequency Range: 250 kHz to 1 GHz		
❖ Extended Frequency Range: 250 kHz to 3 GHz		
❖ Frequency Resolution: 1 Hz		
❖ Output Level Generator Port Range: +5 dBm to -95 dBm		
❖ Output Level Generator Port Resolution: 0.1 dB		
❖ Output Level Generator Port Accuracy: ±2 dB		
❖ Output Level RF I/O Port Range: -30 dBm to -130 dBm		
❖ Output Level RF I/O Port Resolution: 0.1 dB		
❖ Output Level RF I/O Port Accuracy: ±1 dB to 1 GHz; ±2 dB to 1 GHz;		

SERVICE MONITOR

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Meets Specification:

Exception to Specification:

GENERATOR (RECEIVER TEST) – Con't:

❖ Spectral Purity Harmonic Spurious: -20 dBc max	_____	_____
❖ Spectral Purity Non-Harmonic Spurious: -35 dBc max	_____	_____
❖ Spectral Purity Residual FM: 27 Hz max, 300 Hz to 3 kHz	_____	_____
❖ Spectral Purity Residual AM: 1.0% max, 300 Hz to 3 kHz	_____	_____
❖ Spectral Purity SSB Phase Noise (20kHz Offset): -75 dBc/Hz	_____	_____
❖ FM Modulation Deviation Accuracy: 5% of setting	_____	_____
❖ FM Modulation Deviation Range: 0 to 75 kHz	_____	_____
❖ FM Modulation Deviation Resolution: 10 Hz	_____	_____
❖ FM Modulation Bandwidth: 5 Hz to 20 kHz	_____	_____
❖ AM Modulation Depth Range: 0 to 90%	_____	_____
❖ AM Modulation Resolution: 1% of setting	_____	_____
❖ AM Modulation Bandwidth: 100 Hz to 10 kHz	_____	_____
❖ AM Modulation Accuracy: 5% of setting	_____	_____
❖ Modulation Types: 1 kHz Tone, Private Line, Digital Private Line, Single Tone, DTMF, External Inputs from microphone and BNC	_____	_____

RECEIVER (TRANSMITTER TEST):

❖ Frequency Range: 250 kHz-3GHz	_____	_____
❖ Sensitivity – Narrowband FM: 2.0 uV for 10 dB EIA SINAD	_____	_____
❖ Sensitivity – Wideband FM: 10 uV for 10 dB EIA SINAD	_____	_____
❖ Sensitivity – AM: 10 uV for 10 dB EIA SINAD	_____	_____
❖ RF I/O Port VSWR: <1.20:1	_____	_____
❖ RF I/O Port Max Power: 50 W for 5 minutes. 150 W for 30 seconds (30 sec. on, 5 min off)	_____	_____
❖ RF I/O Port Absoluter Max Power: 150 W	_____	_____
❖ RF I/O Port Alarm: Internal Temp. Alarm	_____	_____
❖ Antenna Port Maximum Power: 0 dBm	_____	_____
❖ Antenna Port Alarm: + 10 dBm	_____	_____
❖ If Filters: 6.25 kHz, 12.5 kHz, 25 kHz, 50 kHz, 100 kHz, 200 kHz	_____	_____
❖ Frequency Error Measurement Resolution: 1 Hz	_____	_____
❖ FM Deviation Measurement Demodulation Range: Up to ±5 kHz in Narrowband; Up to ±75 kHz in Wideband	_____	_____
❖ FM Deviation Measurement Accuracy: ±5 plus peak residual FM	_____	_____
❖ FM Deviation Measurement Frequency Response: Selectable per the following: Low Pass Filters–300 Hz, 3 kHz, 20 kHz/ High Pass Filters–5 Hz, 300 Hz, 3 kHz	_____	_____
❖ FM Deviation Measurement Demodulation Output Level: 0.8 V peak per 1 kHz peak deviation in Narrowband and per 10 kHz deviation in Wideband	_____	_____
❖ FM Deviation Measurement Demodulation Output Impedance: 100 ohms nominal	_____	_____
❖ FM Deviation Alarm: Audible, set via keypad in 100 Hz increments	_____	_____
❖ AM Modulation Measurements Demodulation Range: 0 to 100 %	_____	_____
❖ AM Modulation Accuracy: ±5 for levels below 80%	_____	_____

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Meets Specification:

Exception to Specification:

RECEIVER (TRANSMITTER TEST) – Con't:

- ❖ AM Modulation Frequency Response:
Selectable per the following: Low Pass Filters–300 Hz,
3 kHz, 20 kHz/ High Pass Filters–5 Hz, 300 Hz, 3 kHz _____
- ❖ AM Modulation Demodulation Output Level: 0.8 V
peak per 10% AM Modulation _____
- ❖ AM Modulation Output Impedance; 100 ohms nominal _____
- ❖ Receive Signal Strength Level Meter Frequency
Range: 250 kHz – 3 GHz _____
- ❖ Receive Signal Strength Level Meter Accuracy: ± 2 dB _____
- ❖ Receive Signal Strength Level Meter Sensitivity: -120 dBm _____
- ❖ Broadband Power Meter (T/R Port) Frequency Range: 250 kHz-3GHz) _____
- ❖ Broadband Power Meter (T/R Port) Measurement
Range: 0.1 W to 150 W _____
- ❖ Broadband Power Meter (T/R Port) Input
Impedance: 50 Ohms w/max. VSWR of 1.5:1 _____
- ❖ Broadband Power Meter (T/R Port) Accuracy: $\pm 10\%$ _____
- ❖ Broadband Power Meter (T/R Port) Protection: Over temp. alarms _____
- ❖ Frequency Counter Range: 5Hz to 100 kHz _____
- ❖ Frequency Counter Period Counter Range: 5Hz to 20 kHz _____
- ❖ Frequency Counter Input Level: 0.1 V rms min _____
- ❖ SINAD Meter Accuracy: ± 1 dB @ 12 dB SINAD _____
- ❖ SINAD Meter Input Level: 0.1 V rms min _____
- ❖ Distortion Meter Range: 1% to 20% _____
- ❖ Distortion Meter Distortion Accuracy: The greater of
 $\pm 0.5T$ or distortion or $\pm 10\%$ of reading _____
- ❖ Including Optional Digital Demodulation Meters–MOTOTRBO™ _____

SPECTRUM ANALYZER:

- ❖ Sweep Frequency Range: 250 kHz – 3 GHz _____
- ❖ Sweep Frequency Resolution: 1 Hz _____
- ❖ Sweep Span Accuracy: 5% _____
- ❖ Sweep Update Rate: ~ 10 times per second (depending on span) _____
- ❖ Amplitude Level Accuracy: ± 2 dB _____
- ❖ Amplitude Scales (dB/div): 10 (1,2, & 5 w/ESA option) _____
- ❖ Amplitude Log Linearity Accuracy: < 0.1 dB _____
- ❖ Amplitude Reference Level Resolution: 1 dB _____
- ❖ Amplitude Reference Level Range: + 60 to -70 dB _____
- ❖ Amplitude Antenna Port Dynamic Range: 80 dB _____
- ❖ Amplitude T/R Port Dynamic Range: 80 dB _____

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Meets Specification: Exception to Specification:

SPECTRUM ANALYZER con't:

- ❖ Amplitude Typical Noise Floor Performance: -120 dBm _____
- ❖ Amplitude Residual Phase Noise: -75 dBc/Hz @ 20 kHz offset _____
- ❖ Spectrum Analyzer Resolution Bandwidth auto selected _____
- ❖ Harmonic Spurious Antenna Port no attenuation : -20dbc _____
- ❖ Non-Harmonic Spurious Antenna Port no attenuation: -60dbc max _____
- ❖ Residual Spurious Input Terminated -70 dBm _____
- ❖ Markers: Delta, Absolute Level, and Frequency _____
- ❖ Modes: Standard Average Freeze Man Hold, and Peak Hold _____

OSCILLOSCOPE:

- ❖ Vertical Input Impedance: 1 Meg Ohm/600 Ohm (Selectable) _____
- ❖ Vertical Input Range: ± 100 VDC, ± 70 Vrms AC _____
- ❖ Vertical Input Accuracy: 5% of full scale _____
- ❖ Vertical Input Bandwidth: 0 to 50 kHz _____
- ❖ Horizontal Sweep Range: 20 uSec to 1 Sec/div. (Selectable) _____
- ❖ Trigger Selection: Normal, Auto (Free Running), Single Sweep _____
- ❖ Special Functions Markers: Delta Voltage, Delta Frequency, Delta Period: _____

AUDIO MODULATION SYNTHESIZER:

- ❖ Modulation Types: 1 kHz tone, Private Line, Digital Private Line (w/ DPL Invert), Single Tone, DTMF, Two-Tone Paging, 5/6 Tone Paging, External inputs from both a supplied microphone and BNC input _____
- ❖ Modulation Output Amplitude Flatness: 5 Hz to 20 kHz ± 0.1 dB _____
- ❖ Modulation Output Level: Programmable to ± 8 V peak _____
- ❖ 1 kHz Tone Distortion: Not to exceed 1% THD _____
- ❖ External Mod In Input Impedance: 600 Ohms _____

TRACKING GENERATOR:

- ❖ Frequency Range: 250 kHz – 3 GHz _____

DIGITAL VOLTMETER (DVM):

- ❖ Input Impedance: 1 M Ohm _____
- ❖ Voltage Range: 1 V, 10 V, 70 V full scale _____
- ❖ Frequency Range: 50 Hz to 20 kHz _____
- ❖ DC Accuracy: 1% full scale ± 0.1 LSB _____
- ❖ AC Accuracy: 5% full scale ± 0.1 LSB _____

TIMEBASE:

- ❖ Output Frequency: 10 MHz _____
- ❖ Stability: Aging: ± 0.1 ppm/year _____
- ❖ Stability: Temp : ± 0.1 ppm _____
- ❖ Output Level: Minimum 0 dBm into 50 Ohms _____
- ❖ Warm Up: 3 Minutes within ± 0.1 ppm _____

SERVICE MONITOR
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Meets Specification:

Exception to Specification:

DISPLAY:

❖ Front Panel Display – Resolution: 800 x 600

❖ Front Panel Display – Size: 8.4” (21.3 cm) Full Color LCD

❖ External Display – VGA

REMOTE INTERFACE:

❖ Remote Front Panel (available over Ethernet)

ACCESSORIES INCLUDED IN BID:

❖ Antenna

❖ Oscilloscope Probe

❖ Microphone

❖ Users Manual CD

❖ Power Cord

❖ Tracking Generator (R8-TG)

❖ Enhanced Spec. An/Oscilloscope (R8-ESA)

❖ Cable Fault Locator (R8-CF)

❖ Soft Carrying Case (R8-SC)

❖ R8 P25 APCO Trunking

❖ R8 Remote Software

❖ R8-3G 3Ghz operation

OPTIONAL ADDITIONAL PRICING - WARRANTY:

❖ 3-year Service Plan

❖ 5-year Service Plan

THIS FORM MUST BE SIGNED AND RETURNED WITH BID!!!

BIDDER COMPANY NAME

PRINTED NAME OF COMPANY REPRESENTATIVE

SIGNATURE OF COMPANY REPRESENTATIVE

TITLE

DATE

REQUEST FOR BID - GENERAL CONDITIONS

The City of Hutchinson is seeking Bids for items specified in the enclosed which it wished to purchase. None of the attachments are intended to be restrictive but to act as a guide for those desiring to submit Bids. ALL BIDS SHALL BE GOOD FOR A PERIOD OF FORTY-FIVE DAYS FROM THE DATE QUOTES ARE OPENED.

PRICE PROTECTION. The price stated in the Bid shall be firm and not subject to increase during the term of any contractual agreement arising between the City of Hutchinson and the vendor as a result of the Bid. Vendors shall provide firm prices less any federal excise tax. The City of Hutchinson is exempt from payment of sales tax. For further information contact the City Clerk's Office (694-2614).

METHOD OF PAYMENT. Payment will be made within 30 days of date of delivery and satisfactory performance to the City of Hutchinson.

DELIVERY/DELIVERY DATES. Bids shall reflect inside delivery to the City of Hutchinson, Hutchinson/Reno County Emergency Communication Department, 210 West 1st, Hutchinson, Kansas on or before March 1, 2010. Delivery of all items shall be made on a week day between the hours of 8:00 a.m. and 5:00 p.m. All items are subject to review prior to purchase and will need to be made available by the vendor for review. Items received by the City of Hutchinson shall meet specifications and/or deemed to be acceptable by the City. Items not meeting specifications are deemed to be unacceptable by the City shall be returned to the vendor. The City of Hutchinson shall not be liable for any items during transit.

NON-DISCRIMINATION. During the performance of this contract, the contractor/vendor will not discriminate against any employee or applicant for employment because of race, sex, religion, color, age, national origin, ancestry or physical handicap, unless based upon a bonafide occupational qualification. The contractor/vendor will take affirmative action to insure applicants are employed, and that employees are treated during employment without regard to their race, sex, religion, color, age, national origin, ancestry or physical handicap.

PROPERTY TAX STATEMENT. The attached statement on property owned within the City of Hutchinson must be complete and returned with the Bid in accordance with the City's policy on delinquent property taxes. "The City reserves the right to reject all bids from bidders who are delinquent in personal or real estate property taxes to Reno County, Kansas."

AWARDING OF BID. Whenever the City of Hutchinson lets Bids for goods or services, and the low Bid is submitted by a vendor domiciled outside of Reno County, a vendor domiciled inside Reno county may be deemed the preferred vendor and awarded the Bid if:

1. The quality, suitability, and usability of the goods or services are equal and fully comply with the minimum Bid specifications, and the vendor has the capability to adequately service the product.
2. The amount of the Bid of the vendor domiciled within Reno County is not more than 5% greater than the amount of the low Bid if the low Bid is under \$10,000, or not more than 3% greater than the amount of the low Bid if the low Bid is greater than \$10,000.
3. The Bid does not pertain to new construction or involve State or Federal Funding.
4. The vendor domiciled within Reno County is willing to match the Bid price offered by the low vendor domiciled outside of Reno County within 24 hours of official notification.

THE CITY OF HUTCHINSON RESERVES THE RIGHT TO REJECT PART OR ALL OF ANY BID AND TO WAIVE FORMALITIES. ALL BIDS ARE SUBJECT TO PURCHASING POLICIES SET BY THE CITY COUNCIL OF HUTCHINSON. THE CITY OF HUTCHINSON RESERVES THE RIGHT TO DIVIDE PURCHASES AMONG VENDERS TO ACCOMPLISH THE BEST GROSS PRICE AND TO MAKE THE FINAL DECISION AS TO ACCEPTABILITY OF QUALITY AND PRICE. ALL VENDORS DOING BUSINESS WITH THE CITY OF HUTCHINSON SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL LAWS.