

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 PURCHASING OPERATIONS  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

September 9, 2008

**CHANGE NOTICE NO. 13**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-3215 <b>Steve Motz, Buyer</b>
Contract Compliance Inspector: Steve Motz <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>October 1, 2008</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective immediately the pricing page is hereby updated replaced with the following "State of Michigan Product Based Discount Schedule". All other terms, conditions, specifications, and pricing remain the same.

Please note: Additional products are indicated by red font.

**AUTHORITY/REASON:**

Per Agency request and Vendor agreement.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$11,242,158.00**

## STATE OF MICHIGAN PRODUCT BASED DISCOUNT

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
1.0	MOBILE RADIOS	PM 400 Series	019,185,554,412,706	15%
		PM 1500 Series	483,185,604,623,204	15%
		Astro XTL5000	500	20%
		Astro XTL2500	514	20%
		Astro XTL1500	775	23%
		Base Interface	351	15%
		CDM Series	103, 554,577,109	30%
		HPD1000	153	15%
		All Other Radius	All APC Codes	20%
		Vehicular Repeater System	287	15%
		<b>Mototrbo XPR Series</b>	<b>563,038</b>	<b>5%</b>
1.1	MOBILE ACCESSORY	Antennas	644,555,455	15%
2.0	FIXED STATIONS	Simulcast Controller	335	15%
		MTR 2000	512	29%
		Quantar	448,225	20%
		Quantar	509	24%
		XTL5000 Console	276	20%
		Radius All	All APC Codes	20%
		All Other Non Listed Stations	All APC Codes	10%
		CDR Series	794,793,291,362,457	10%
		GTR Series	112	10%
				<b>Mototrbo XPR Series</b>
2.1	MICROWAVE	Microwave	131	5%
2.2	FIXED STATION ACCESSORIES	All Items	207,274,201,351,740	10%
		All Dropship Not Listed	All APC Codes	10%
2.3	FIXED STATION CONTROLS	CentraCom Gold	404, 202, 228, 322	21%
		Control Modules	228, 244	21%
		Console	202	21%
		Flashport	729	0%
		Command Plus	740, 129	16%
		Command Star	124	16%
		MC Series Desk Top Control	124	16%
		Console Furniture	202,229,708	10%
		CRT Console	708	5%
		Plant 911	131	10%
		Nice Recording	229	5%
		MC3000 Digital	124	16%
		MIP5000 VOiP Radio Console	740,322,124	5%
	MCC5500	322	10%	
	MCC7500	443	15%	
2.5	ANTENNA SYSTEMS	All Items	207, 708, 291, 229	10%

## STATE OF MICHIGAN PRODUCT BASED DISCOUNT

SECTI ON	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
2.7	RECEIVERS	Minitor IV	183, 839	10%
		Quantar Receiver	743, 509	15%
		Astro Tac Receiver	743, 360, 225, 677	15%
		MTR2000 Receiver	512	15%
3.0	PORTABLE RADIOS			
		XTS5000	721	20%
		XTS 2500	205	20%
		XTS1500	687	20%
		XTVA	256	15%
		HT 750	672	30%
		HT 1250	749	30%
		EX400/500	004	25%
		MTX	511,921	25%
		CP 100	009	15%
		CP150	018	15%
		CP200	018	15%
		CP125	246	15%
		PR400	442	15%
		PR860	005	15%
		PR1500	626	15%
		Personal Location	222,372	10%
		MT1500	687	20%
		All Other Radius	All APC Codes	20%
		4.0	PAGERS	All Pagers
4.1	PAGING ENCODERS	Zetron 640, 2100, 2200	226	15%
5.0	SECURE SOLUTIONS	Comparator	424	20%
		Voice Modem	643	16%
		Key Mgmt Controller	137	15%
		Console Interface	424	20%
		KVL3000	201, 462, 414, 454	16%
		AstroTac	525	20%
		Astro DIU	524	20%
6.2	TRUNKED RADIO	Smartnet systems	277	15%
		Smartzone systems	280.281	15%
		ASTRO systems	524,525	20%
		SIMS II, SIP, Systems Watch	647	15%
		FNX2000	495	15%
	Astro 25 Software	877	0%	

## STATE OF MICHIGAN PRODUCT BASED DISCOUNT

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
7.0	<b>FLASHPORT</b>	FLASHport software	430	0%
11.0	<b>DATA SYSTEMS</b>	Mobile Workstation 800 Series	736	20%
		ML900 Mobile Workstation Series	343	20%
		HC700 Hand Held Computer	451, 629	25%
		Mobile Digital Video Recorder	171	5%
		Workstation 300 & 350	450	10%
		VRM 850	508	12%
		RNC3000	381 403	12%
		Quantar Data Station	509 680	12%
		Data Infrastructure	403	5%
		Fixed Network Equipment	683,291,207,708,	10%
		Mobile Computing Accessoies	170 & 291	10%
		Mobil Video	171	10%
12.0	<b>BROADBAND SOLUTIONS</b>	Mesh, Motomesh	683, 291	10%
		Meshtrac	683,	10%
		Hotzone Duo Wirless Access Point	683	15%
		Wireless Networking Solutions	All APC Codes	10%
		Intelligent Traffic Surveillance Solutions	040	10%
		Multi-Net Mobility	39,708,509	15%
		Fire Ground Communications System	15,772,721,332	10%
13.0	<b>BIOMETRICS</b>	Air Mobile	All APC Codes	10
		Automatic License Plate Recognition	041	10
		Intelligent Video Surveillance & Control	41,683,343	10
14.0	<b>FIXED &amp; MOBILE DATA</b>	Moscad, MCP	214	10%
		Intrac	275, 403, 683, 469	15%
		ACE3600	085	10%
15.0	<b>INTEGRATED SOLUTIONS</b>	Mobile Applications	879	5%
		CAD Solutions	333, 611	0%
		TX Application	232	0%
		Public Service Applications	842	0%
		Records Management Solutions	879	0%
16.0	<b>SERVICE PRODUCTS</b>	Infras Board Level Rep	290	10%
		Information Services	768	10%
		Radio Support Center Services	964A	10%
		Field Response Services	984	10%
		Upgrade Assurance Plan	877	5%
		Software Subscription	877	5%
17.0	<b>PROFESSIONAL SERVICES</b>	Professional Services	128, 208	5%
		Training		5%
17.0	<b>SECURITY SERVICES</b>	ASTRO Network Security Monitoring	519	5%
		Pre-Tested Software Subscription	519	5%

## STATE OF MICHIGAN PRODUCT BASED DISCOUNT

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %	
17.0	SITE MANAGEMENT	Antenna Site Audit	390	5%	
		Antenna Site Management	390	5%	
		Radio Site Security	768	5%	
		Inventory Management Service	219	5%	
	INSTALLATION	Instal/Removal - FSO	461	5%	
		Install/Removal - MSS	209	5%	
	TECHNICAL SERVICES	Dispatch Service	768	10%	
		Network Monitoring Service	561	10%	
		OnSite Infrastructure Response Service	769	5%	
		Network Preventive Maintenance	769	5%	
		Technical Support Service	772	10%	
	REPAIR SERVICES - SUBSCRIBER				
		Local Radio Support Service	206	5%	
		Radio Repair Bank	386	0%	
		Radio Repair Service	964	5%	
	REPAIR SERVICES - INFRASTRUCTURE				
		Infrastructure Repair	929	10%	
	Infrastructure Repair w/Adv. Rep.	929	10%		
SOFTWARE SUBSCRIPTION SERVICE					
	Software Subscription Agreement	823/260	5%		
	Infrastructure Software Installation	984	5%		
	Software Upgrade Design Service	768	0%		
	Radio Software Installation Service	295	5%		
18.0	PARTS & ACCESSORIES	All Parts and Accessories	All APC Codes	15%	

### NOTES:

1. DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G24 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."
2. ANY "DROP SHIP" ITEM NOT OTHERWISE IDENTIFIED BY A PRODUCT CODE (APC) IS DISCOUNTED AT 10%
3. ALL ACCESSORIES ORDERED THROUGH MOTOROLA PARTS AND AFTER MARKET ACCESSORIES DIVISION IS 15% DISCOUNT
4. VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

STATE OF MICHIGAN  
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May 9, 2008

**CHANGE NOTICE NO. 12**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE <b>(2) 36-1115800 (000)</b>
	BUYER/CA (517) 241-3215 <b>Steve Motz, Buyer</b>
Contract Compliance Inspector: Steve Motz <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>October 1, 2008</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective immediately this contract is hereby **EXTENDED** to October 1<sup>st</sup>, 2008.  
 See attached "State of Michigan Product Based Discount Schedule" for revised discount levels.

**Overview of Extension**

<input checked="" type="checkbox"/>	Extension	(5/2/08 – 10/1/08)
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All other terms, conditions, specifications, and pricing remain the same.

**AUTHORITY/REASON:**

Per Agency request and Vendor agreement.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$11,242,158.00**

**STATE OF MICHIGAN PRODUCT BASED DISCOUNT**

<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
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		PM 1500 Series	483,185,604,623,204	15%
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		CDM Series	103, 554,577,109	30%
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		All Other Radius	All APC Codes	20%
		Vehicular Repeater System	287	15%
<b>1.1</b>	<b>MOBILE ACCESSORY</b>	Antennas	644,555,455	15%
<b>2.0</b>	<b>FIXED STATIONS</b>	Simulcast Controller	335	15%
		MTR 2000	512	29%
		Quantar	448,225	20%
		Quantar	509	24%
		XTL5000 Console	276	20%
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		Automatic License Plate Recognition	041	10
		Intelligent Video Surveillance & Control	41,683,343	10
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		ACE3600	085	10%
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16.0	SERVICE PRODUCTS	Infras Board Level Rep	290	10%
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		Network Monitoring Service	561	10%	
		OnSite Infrastructure Response Service	769	5%	
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		Technical Support Service	772	10%	
	REPAIR SERVICES - SUBSCRIBER				
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		Infrastructure Repair	929	10%	
	Infrastructure Repair w/Adv. Rep.	929	10%		
SOFTWARE SUBSCRIPTION SERVICE					
	Software Subscription Agreement	823/260	5%		
	Infrastructure Software Installation	984	5%		
	Software Upgrade Design Service	768	0%		
	Radio Software Installation Service	295	5%		
18.0	PARTS & ACCESSORIES	All Parts and Accessories	All APC Codes	15%	

### NOTES:

1. DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G24 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."
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4. VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 PURCHASING OPERATIONS  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

February 20, 2008

**CHANGE NOTICE NO. 11**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-3215 <b>Steve Motz, Buyer</b>
Contract Compliance Inspector: Steve Motz <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>May 1, 2008</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective immediately this contract is hereby **INCREASED** by \$2,600,000.00 to provide additional funds needed for the Michigan Department of Transportation Vehicle Integration Initiative. All other terms, conditions, specifications, and pricing remain the same.

**Overview of Contract Increase**

<b>Previous Contract Value:</b>	<b>\$8,642,158.00</b>
<b>CN 11 Increase:</b>	<b>\$2,600,000.00</b>

**AUTHORITY/REASON:**

Per Agency request and Vendor agreement .  
 Approved by the Administrative Board on 2/19/2008.

**TOTAL REVISED ESTIMATED CONTRACT VALUE: \$11,242,158.00**

## **Overview of Changes**

### **Radio device equipment for existing MITS installations**

**(State Estimate \$500,000)**

The Contractor will provide new wireless broadband equipment and professional services for MDOT's Intelligent Transportation System for deployments at various locations in Southeast Michigan. This will allow for monitoring of road conditions through the use of point to point wireless devices.

### **Mackinaw and Cut River Bridge Intelligent Transportation System (ITS) project**

**(State Estimate \$600,000)**

The Contractor will provide equipment required for a test project that MDOT is doing to provide communications for bridge monitoring of the Mackinaw and Cut River Bridge. The project will provide information back to MDOT via sensors, imaging, data collection etc to give information regarding loads, stresses, tensions etc in the bridges. The Cut River Bridge is considered structurally deficient and that this equipment will monitor the condition of the bridge during the re-decking process this summer. The project will also allow for video coverage of the bridges for MDOT use.

### **St. Clair County ITS project**

**(State Estimate \$1,050,000)**

The Contractor will provide wireless broadband components and professional engineering which will be used for monitoring ferry crossings in St. Clair County. This new point to point equipment will allow MDOT to utilize cameras to monitor ferry crossings.

### **Concrete equipment enclosures for two MITS Radio Towers in the Detroit Metro Region**

**(See Price Quote Below)**

The Contractor will provide a communications shelter to house the communications devices that operate the equipment on the associated tower which communicates to the devices on the roadways and ultimately back to the MDOT operations center in Detroit. The devices cannot be outside due to weather constraints etc. The devices are environmentally sensitive meaning they require constant temperatures and humidity and conditioned power and such. Providing the housing allows for protection of these sensitive pieces of equipment and ensures that the mission critical data that is sent over the network for MDOT, MSP and MPSCS is secure and reliable.



January 24, 2008

Michigan Department of Transportation  
 Attn.: Michele Mueller  
 Metro Region Office  
 18101 W. Nine Mile  
 Southfield, MI 48075

Dear Michele,

Motorola is pleased to provide you with a quotation for new building enclosures. Below is pricing and a brief description of the buildings.

ITEM	MODEL	APC	QTY	DESCRIPTION	SELL	EXTENDED
1	TT1002	329	2	MSB, 12' X 32' CONCRETE BLDG, INCLS UPS & GENERATOR, FULLY COMPLETE(100kW)	\$175,666.50	\$351,333.00
Option 2	TT02003AA	329	2	ADD: INDOOR GENERATOR (PROVIDES INDEPENDENT 12X15 GENERATOR BLDG)	\$36,693.00	\$73,386.00
Option 3	TT1002MIUPG	329	2	STATE OF MICHIGAN UPGRADE	\$5,553.00	\$11,106.00
2	DQFRTOFFLDMDOTSFLD			Crane Off Loading - Southfield and Novi	\$11,069.00	\$22,138.00
3				Freight Charges	\$5,624.25	\$11,248.50
				Total	\$234,605.75	\$469,211.50

The TT1002 (12x32) with indoor generator option provides a 12x32 equipment building with a separate 12x15 generator building. As a result, if the buildings are butted next to each other, the overall footprint would approximate 12x47'.

No services have been quoted or provided. As such, MDOT will be responsible to off-loading shelters and must coordinate delivery date with manufacturer and Motorola. Additionally, MDOT will be responsible for all site preparation, civil and electrical work required to facilitate proper support and functionality of the supplies shelters.

Our buyer spoke with both Miller and Generac this morning. Generac has stated they can build the (2) generators in (6) weeks from date of order (order from Miller) under expedite. As a result, Miller has stated they can manufacture both buildings in (8) weeks from receipt of approved drawings.

Manufacturing will begin once MDOT signs off on the drawings. As a result, you will need to expedite and we will do the same. Please provide as much advance notice of order as possible so I can notify suppliers, allowing them to schedule production lines accordingly.

Prices are predicated upon State of Michigan Contract Pricing, Contract # 071B3001101. Prices shall remain firm until Feb 28<sup>th</sup>, 2008. Prices do not include freight. Estimated freight is approximately \$14,000.00.

If you need additional information feel free to contact me at your convenience.

Respectfully,

MOTOROLA, INC.

Rick Uslan  
 Senior Account Manager

Receiver Number: \_\_\_\_\_

Purchase Order Number: \_\_\_\_\_

OR Dir. You. ID # \_\_\_\_\_

Approval: \_\_\_\_\_

35,825.00

Date Invoice Received: 2-4-08

Partial/Final Payment

591N8202015

Michele Mueller

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 PURCHASING OPERATIONS  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

January 22, 2008

**CHANGE NOTICE NO. 10**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-3215 <b>Steve Motz, Buyer</b>
Contract Compliance Inspector: Steve Motz <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>May 1, 2008</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective immediately this contract is hereby **INCREASED** by \$445,000.00 to provide additional funds needed in order for agencies to use this contract through the remaining contract period. All other terms, conditions, specifications, and pricing remain the same.

**Overview of Contract Increase**

Previous Contract Value:	<b>\$ 8,197,158.00</b>
CN 10 Increase:	<b>\$ 445,000.00</b>

**AUTHORITY/REASON:**

Per DMB Purchasing Operations, and Agency request.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$8,642,158.00**

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 PURCHASING OPERATIONS  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

November 27, 2007

**CHANGE NOTICE NO. 9**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-3215 <b>Steve Motz, Buyer</b>
Contract Compliance Inspector: Steve Motz <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>May 1, 2008</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective immediately this contract is hereby **EXTENDED** to May 1, 2008. All other terms, conditions, specifications, and pricing remain the same.

**Overview of Extension**

<input checked="" type="checkbox"/>	Extension	(12/1/07 – 5/1/08)
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In addition the Buyer for this Contract has been changed to Steve Motz.

**AUTHORITY/REASON:**

Per DMB Purchasing Operations.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$8,197,158.00**

STATE OF MICHIGAN  
DEPARTMENT OF MANAGEMENT AND BUDGET  
PURCHASING OPERATIONS  
P.O. BOX 30026, LANSING, MI 48909  
OR  
530 W. ALLEGAN, LANSING, MI 48933

April 11, 2007

**CHANGE NOTICE NO. 7**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  <b>r.uslan@motorola.com</b>	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-2005 <b>Lisa Morrison, Buyer</b>
Contract Compliance Inspector: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>December 1, 2007</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective April 4, 2007, a revised APC code listing of products has been added to this contract. (See attachment) Please note that the additions are new products that are either a replacement or addition to the current product line.

**AUTHORITY/REASON:**

Per vendor contact (Rick Uslan) dated 3/20/07 and DMB/Purchasing Operations approval.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$8,050,604.00**

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC %
1.0	MOBILE RADIOS	PM 400 Series	019,185,554,412,706	15%
		PM 1500 Series	483,185,604,623,204	15%
		Astro XTL5000	500	20%
		Astro XTL2500	514	20%
		Astro XTL1500	775	23%
		Base Interface	351	15%
		CDM Series	103,554,577,109	30%
		HPD1000	153	15%
		All Other Radius	All APC Codes	20%
		Vehicular Repeater System	287	15%
1.1	MOBILE ACCESSORY	Antennas	644,555,455	15%
2.0	FIXED STATIONS	Simulcast Controller	335	15%
		MTR 2000	512	29%
		Quantar	448,225	20%
		Quantar	509	24%
		XTL5000 Console	276	20%
		Radius All	All APC Codes	20%
		All Other Non Listed Stations	All APC Codes	10%
		CDR Series	794,793,291,362,457	10%
		GTR Series	112	10%
2.1	MICROWAVE	Microwave	131	5%
2.2	FIXED STATION ACCESSORIES	All Items	207,274,201,351,740	10%
		All Dropship Not Listed	All APC Codes	10%
2.3	FIXED STATION CONTROLS	CentraCom Gold	404,202,228,322	21%
		Control Modules	228,244	21%
		Console	202	21%
		Flashport	729	0%
		Command Plus	740,129	16%
		Command Star	124	16%
		MC Series Desk Top Control	124	16%
		Console Furniture	202,229,708	10%
		CRT Console	708	5%
		Plant 911	131	10%
		Nice Recording	229	5%
		MC3000 Digital	124	16%
		MIP5000 VOIP Radio Console	740,322,124	5%
		MCC5500	322	10%
		2.5	ANTENNA SYSTEMS	All Items
2.7	RECEIVERS	Minitor IV	183,839	10%
		Quantar Receiver	743,509	15%
		Astro Tac Receiver	743,360,225,677	15%
		MTR2000 Receiver	512	15%

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %		
3.0	PORTABLE RADIOS	XTS5000	721	20%		
		XTS 2500	205	20%		
		XTS1500	687	20%		
		XTVA	256	15%		
		HT 750	672	30%		
		HT 1250	749	30%		
		EX400/500	004	25%		
		MTX	511,921	25%		
		CP 100	009	15%		
		CP150	018	15%		
		CP200	018	15%		
		CP125	246	15%		
		PR400	442	15%		
		PR860	005	15%		
		PR1500	626	15%		
		Personal Location	222,372	10%		
		MT1500	687	20%		
		All Other Radius	All APC Codes	20%		
		4.0	PAGERS	All Pagers	All APC Codes	15%
		4.1	PAGING ENCODERS	Zetron 640, 2100, 2200	226	15%
5.0	SECURE SOLUTIONS	Comparator	424	20%		
		Voice Modem	643	16%		
		Key Mgmt Controller	137	15%		
		Console Interface	424	20%		
		KVL3000	201, 462, 414, 454	16%		
		Astro Tac	525	20%		
		Astro DIU	524	20%		
6.2	TRUNKED RADIO	Smartnet systems	277	15%		
		Smartzone systems	280,281	15%		
		ASTRO systems	524,525	20%		
		SIMS II, SIP, Systems Watch	647	15%		
		FNX2000	495	15%		
		Astro 25 Software	877	0%		
7.0	FLASHPORT	FLASHport software	430	0%		
11.0	DATA SYSTEMS	Mobile Workstation 800	736	18%		
		ML900 Mobile Workstation	343, 170	20%		
		HC700 Hand Held Computer	451, 629	25%		
		Mobile Digital Video Recorder	171	5%		
		Workstation 300 & 350	450	10%		
		VRM 850	508	12%		
		RNC3000	381 403	12%		
		Quantar Data Station	509 680	12%		
		Data Infrastructure	403	5%		
		Fixed Network Equipment	683,291,207,708,	10%		
		Mobile Computing Accesssoies	170 & 291	10%		
		Mobil Video	171	10%		
		12.0	BROADBAND SOLUTIONS	Mesh, Motomesh	683, 291	10%
				Meshtrac	683,	10%
				Hotzone Duo Wirless Access Point	683	15%
Wireless Networking Solutions	All APC Codes			10%		
Intelligent Traffic Surveillance Solutions	040			10%		
Multi-Net Mobility	39,708,509			15%		
Fire Ground Communications System	15,772,721,332			10%		

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
13.0	BIOMETRICS	Air Mobile	All APC Codes	10
		Automatic License Plate Recognition	041	10
		Intelligent Video Surveillance & Control	41,683,343	10
14.0	FIXED & MOBILE DATA	Moscad, MCP	214	10%
		Intrac	275, 403, 683, 469	15%
		ACE3600	085	10%
15.0	INTEGRATED SOLUTIONS	Mobile Applications	879	5%
		CAD Solutions	333, 611	0%
		TX Application	232	0%
		Public Service Applications	842	0%
		Records Management Solutions	879	0%
16.0	SERVICE PRODUCTS	Infras Board Level Rep	290	10%
		Information Services	768	10%
		Radio Support Center Services	964A	10%
		Field Response Services	984	10%
		Upgrade Assurance Plane	877	5%
		Software Subscription	877	5%
17.0	PROFESSIONAL SERVICES	Professional Services	128, 208	5%
		Training		5%
18.0	PARTS & ACCESSORIES	All Parts and Accessories	All APC Codes	15%

NOTES:

- 1) DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G24 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."
- 2) ANY "DROP SHIP" ITEM NOT OTHERWISE IDENTIFIED BY A PRODUCT CODE (APC) IS DISCOUNTED AT 10%
- 3) ALL ACCESSORIES ORDERED THROUGH MOTOROLA PARTS AND AFTER MARKET ACCESSORIES DIVISION IS 15% DISCOUNT
- 4) VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 PURCHASING OPERATIONS  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

November 21, 2006

**CHANGE NOTICE NO. 6**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 241-2005 <b>Lisa Morrison, Buyer</b>
Contract Compliance Inspector: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>December 1, 2007</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective immediately this Contract is hereby **EXTENDED** for one year. The new Contract ending date is **December 1, 2007**. All other terms, conditions, specifications and pricing remain unchanged. Please note the Buyer has been changed to **Lisa Morrison**.

**AUTHORITY/REASON:**

Per vendor letter (Rick Uslan) dated 10/30/06.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$8,050,604.00**

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

November 29, 2005

**CHANGE NOTICE NO. 5**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Compliance Inspector: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>December 1, 2006</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.

**NATURE OF CHANGE (S):**

Effective immediately this Contract is hereby EXTENDED for one year. The new Contract ending date is December 1, 2006. All other terms, conditions, specifications and pricing remain unchanged.

**AUTHORITY/REASON:**

Per vendor letter (Rick Uslan) dated 11/28/05.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$8,050,604.00**

Part Number	Chem Type	Chg. Rate	Volts	Avg. Mah	Height Inches	Warranty Type	FM (Factory Mutual) Ratings			Other Info	List Price	15%	Michigan Contract Price
							Rtg.	Class	Div				
HT1000/MT2000/MTS2000/JT1000 MTX8000 & 9000													
HNN9028AR	NiCd	RPD	7.5	1500	6	24C/24W				IMPRES/SMART	\$110.00	\$93.50	\$39.00
HNN9029AR	NiCd	RPD	7.5	1400	6	24C/24W	IS	I,I,III	1	IMPRES/SMART	\$156.75	\$133.23	\$51.00
NTN7143CR	NiCd	RPD	7.5	1200	6	18C/24W					\$74.00	\$62.90	\$31.00
NTN7144CR	NiCd	RPD	7.5	1500	6	18C/24W					\$110.00	\$93.50	\$33.00
NTN7146AR	NiCd	RPD	7.5	1200	6	18C/24W	IS	I,I,III	1		\$106.00	\$90.10	\$40.00
NTN7147AR	NiCd	RPD	7.5	1300	6	18C/24W	IS	I,I,III	1		\$144.00	\$122.40	\$43.20
NTN7150AR	NiCd	RPD	7.5	1200	6	18C/24W	IS	I,I,III	1	MSHA	\$125.00	\$106.25	\$45.00
NTN7341AR	NiCd	RPD	7.5	1400	6	18C/24W	IS	I,I,III	1		\$144.00	\$122.40	\$43.20
NTN7372AR	NiCd	RPD	7.5	1200	6	18C/24W	IS	I,I,III	1		\$106.00	\$90.10	\$40.00
WPNN4013A	NiMH	RPD	7.5	2000	6	12C/24W					\$90.00	\$76.50	\$42.00
WPNN4037A	NiMH	RPD	7.5	1900	6	12C/24W	IS	I,I,III	2		\$133.00	\$113.05	\$52.00

Part Number	Chem Type	Chg. Rate	Volts	Avg. Mah	Height Inches	Warranty Type	FM (Factory Mutual) Ratings			Other Info	List Price	15%	Michigan Contract Price
							Rtg.	Class	Div				
SABER / ASTRO													
HNN9033AR	NiCd	RPD	7.5	1800	4	24C/24W					\$150.00	\$127.50	\$45.00
HNN9034AR	NiCd	RPD	7.5	1800	4	24C/24W	IS	I,I,III	1	IMPRES/SMART	\$168.00	\$142.80	\$55.00
NTN4538DR	NiCd	RPD	7.5	1100	3 & 1/4	18C/24W	IS	I,I,III	1	IMPRES/SMART	\$131.00	\$111.35	\$45.00
NTN4593DR	NiCd	RPD	7.5	1100	3 & 1/4	18C/24W	NI	I	2	Submersible	\$116.00	\$98.80	\$34.80
NTN4595DR	NiCd	RPD	7.5	1800	4	18C/24W	NI	I	2	A,B,C,D	\$149.10	\$126.73	\$42.60
NTN4596DR	NiCd	RPD	7.5	1800	4	18C/24W	IS	I,I,III	1	Submersible	\$185.00	\$157.25	\$55.50
NTN4992CR	NiCd	RPD	7.5	1800	4	18C/24W	IS	I,I,III	1	Submersible	\$160.00	\$136.00	\$48.00
NTN7014BR	NiMH	RPD	7.5	950	2 & 3/8	12C/24W	NI	I	2	A,B,C,D	\$120.00	\$102.00	\$36.00
NTN7058AR	NiCd	RPD	7.5	1800	4	18C/24W	IS	I,I,III	1	Submersible	\$150.00	\$127.50	\$57.00
NTN8251AR	NiMH	RPD	7.5	1650	3 & 1/4	12C/24W	IS	I,I,III	1	Submersible	\$140.00	\$119.00	\$41.00

XTS2000/3000/3500/5000														
HNN9031AR	NICd	RPD	7.5	1525	6 & 11/8	24C/24W				No encryption	IMPRES/SMART	\$103.00	\$87.55	\$38.00
HNN9032AR	NICd	RPD	7.5	1525	6 & 11/8	24C/24W	IS	I,I,III	1	C,D,E,F,G	IMPRES/SMART	\$125.00	\$106.25	\$48.00
NTN8294BR	NICd	RPD	7.5	1525	6 & 11/8	18C/24W						\$95.00	\$80.75	\$30.00
NTN8295AR	NICd	RPD	7.5	1525	6 & 11/8	18C/24W	IS	I,I,III	1	C,D,E,F,G	DFG with encryption	\$115.00	\$97.75	\$40.00
NTN8297AR	NICd	RPD	7.5	1525	6 & 11/8	18C/24W	IS	I,I,III	1	C,D,E,F,G	DFG with encryption	\$125.00	\$106.25	\$43.00
NTN8299BR	NIMH	RPD	7.5	2000	6 & 11/8	12C/24W	IS	I,I,III	1	C,D,E,F,G	DFG with encryption	\$135.00	\$114.75	\$42.00
NTN8923AR	NIMH	RPD	7.5	2000	6 & 11/8	12C/24W						\$115.00	\$97.75	\$34.50
RNN4006AR	NIMH	RPD	7.5	3500	6 & 11/8	12C/24W						\$125.00	\$106.25	\$45.00
RNN4007AR	NIMH	RPD	7.5	3500	6 & 11/8	12C/24W	IS	I,I,III	1	CDEFG	DFG with encryption	\$150.00	\$127.50	\$53.00
NNTN4435AR	NIMH	RPD	7.5	2000	6 & 11/8	18C/24W						\$121.00	\$102.85	\$42.00
NNTN4436AR	NIMH	RPD	7.5	2000	6 & 11/8	18C/24W	IS	I,I,III	1	C,D,E,F,G	IMPRES/SMART	\$140.00	\$119.00	\$50.00
NNTN4437AR	NIMH	RPD	7.5	2000	6 & 11/8	18C/24W	IS	I,I,III	1	C,D,E,F,G	Impres/smart/Rugged	\$145.00	\$123.25	\$53.00
XTS2500														
NTN8815AR	NICd	RPD	7.5	1525	4 & 13/16	18C/24W						\$100.00	\$85.00	\$31.00
NTN8816AR	NICd	RPD	7.5	1525	4 & 13/16	18C/24W	IS	I,I,III	1	CDEFG		\$121.00	\$102.85	\$39.00
NTN9859AR	NIMH	RPD	7.5	1800	4 & 13/16	12C/24W						\$121.00	\$102.85	\$36.50
NTN9857AR	NIMH	RPD	7.5	1800	4 & 13/16	12C/24W	IS	I,I,II	1	CDEFG		\$142.00	\$120.70	\$44.00
HT1250LS														
HNN9012AR	NICd	RPD	7.5	1300	4 & 13/16	18C/24W						\$65.00	\$55.25	\$36.00

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
1.0	<b>MOBILE RADIOS</b>	Astro Spectra & Accessories	320, 374, 761, 276	20%
		Astro Spectra Motorcycle	624,581,270	20%
		Astro Spectra	412,494	28%
		Astro XTL5000	500	20%
		Astro XTL2500	514	23%
		Astro XTL1500	775	23%
		MCS 2000	466, 623, 722	28%
		Astro Spectra Plus	526	20%
		Maratrac	776	20%
		Base Interface	351	15%
		CDM	103, 554,577,109	30%
		GTX	867	30%
		All Other Radius	All APC Codes	20%
		Vehicular Repeater System	287	15%
		1.1	<b>MOBILE ACCESSORY</b>	Antennas
2.0	<b>FIXED STATIONS</b>	Simulcast Controller	335	15%
		MTR 2000	512	29%
		Quantar	448,225	20%
		Quantar	509	24%
		Astro Spectra Consollette	374,761	20%
		XTL5000 Consolette	276	20%
		Radius All	All APC Codes	20%
		All Other Non Listed Stations	All APC Codes	10%
2.1	<b>MICROWAVE</b>	Battery Chargers	207	5%
2.2	<b>FIXED STATION ACCESSORIES</b>	All Items	207,274,201,351,740	10%
			273,374,761	20%
		All Dropship Not Listed	All APC Codes	10%
2.3	<b>FIXED STATION CONTROLS</b>	CentraCom Gold	404, 202, 228, 322	21%
		Control Modules	228, 244	21%
		Console	202	21%
		Flashport	729	0%
		Command Plus	740, 129	16%
		Command Star	124	16%
		MC Series Desk Top Control	124	16%
		Console Furniture	202,229,708	10%
		CRT Console	708	5%
		911 Telephone Products	118	10%
		Recording Equipment	229	5%
		MC3000 Digital	124	16%
2.5	<b>ANTENNA SYSTEMS</b>	All Items	207, 708, 291, 229	10%
2.7	<b>RECEIVERS</b>	Minitor IV	183, 839	10%
		Spectra Tac	273	16%
		Quantar Receiver	743, 509	15%
		Astro Tac Receiver	743, 360, 225, 677	15%

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
		MTR2000 Receiver	512	15%
<b>3.0</b>	<b>PORTABLE RADIOS</b>			
		MTS 2000	432, 466, 476, 129	20%
		XTS5000	721	20%
		XTS 3000	326,620	25%
		XTS 2500	205	20%
		XTS1500	687	20%
		MT/MTS/HT ACCY	476	25%
		HT 750	672	30%
		HT 1250	749	30%
		EX400/500	004	25%
		MTX	511,921	25%
		MT1500	687	20%
		All Other Radius	All APC Codes	20%
<b>4.0</b>	<b>PAGERS</b>	All Pagers	All APC Codes	15%
<b>4.1</b>	<b>PAGING ENCODERS</b>	Zetron 640, 2100, 2200	226	15%
<b>5.0</b>	<b>SECURENET</b>	Comparator	424	20%
		Voice Modem	643	16%
		Key Mgmt Controller	137	15%
		Console Interface	424	20%
		KVL3000	201, 462, 414, 454	16%
		AstroTac	525	20%
		Astro DIU	524	20%
<b>6.2</b>	<b>TRUNKED RADIO</b>	Smartnet systems	277	15%
		Smartzone systems	280,281	15%
		Smartnet II	131	15%
		ASTRO systems	524,525	20%
		SIMS II, SIP, Systems Watch	647	15%
		LAS	747	15%
		Program Key	647	15%
		FNX2000	495	15%
		RF-ATA	786	15%
<b>7.0</b>	<b>FLASHPORT</b>	FLASHport software	430	0%
<b>11.0</b>	<b>DATA SYSTEMS</b>	Mobile Workstation 800	736	15%
		ML900 Mobile Workstation	343, 170	15%
		ML850 Mobile Workstation	343,170	15%
		Mobile Digital Video Recorder	171	5%
		Workstation 300 & 350	450	10%
		PRM 660 VRM 660	855	10%
		VRM 500, 650,660, 850	503,508, 554,855	12%
		RNC3000	381 403	12%
		Quantar Data Station	509 680	12%
		Data Infrastructure	403	5%
		Magic Pipe Software	381	0%
		Mobile Computing Accesssoies	170 & 291	10%
		Mobil Video	171	10%
		Wide Band Solutions	683, 291	10%
		Canopy	606	10%

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
13.0	FIXED & MOBILE DATA	Moscad, MCP	214	10%
		Intrac	275, 403, 683, 469	15%
14.0	INTEGRATED SOLUTIONS	SCA	879	5%
		Printrak	333, 611	0%
		TX Application	232	0%
		Suncoast	842	0%
		PowerComm	981	0%
		Chrisnet	879	0%
15.0	SERVICE PRODUCTS	Infras Board Level Rep	290	10%
		Information Services	768	10%
		Radio Support Center Services	964A	10%
		Field Response Services	984	10%
16.0	PROFESSIONAL SERVICES	Professional Services	128, 208	5%
				5%
17.0	PARTS & ACCESSORIES	All Parts and Accessories	All APC Codes	15%

**NOTES:**

- 1) DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G24 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."
- 2) ANY "DROP SHIP" ITEM NOT OTHERWISE IDENTIFIED BY A PRODUCT CODE (APC) IS DISCOUNTED AT 10%
- 3) ALL ACCESSORIES ORDERED THROUGH MOTOROLA PARTS AND AFTER MARKET ACCESSORIES DIVISION IS 15% DISCOUNT
- 4) VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET      May 10, 2005  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

**CHANGE NOTICE NO. 4**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Compliance Inspector: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD:                      From: <b>December 1, 2002</b> To: <b>December 1, 2005</b>	
TERMS <p style="text-align: center;"><b>NET 30</b></p>	SHIPMENT <p style="text-align: center;"><b>30 - 45 DAYS ARO</b></p>
F.O.B. <p style="text-align: center;"><b>DESTINATION</b></p>	SHIPPED FROM <p style="text-align: center;"><b>Schaumburg, IL</b></p>
MINIMUM DELIVERY REQUIREMENTS <p style="text-align: center;"><b>N/A</b></p>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective May 10, 2005, a revised APC code listing of products has been added to this contract. (See attachment) Please note that the additions are new products that are either a replacement or addition to the current product line.

**AUTHORITY/REASON:**

Per vendor contact (Rick Uslan) dated 4/23/05 and DMB/Acquisition Services approval.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS:    \$8,050,604.00**

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
1.0	MOBILE RADIOS	Astro Spectra & Accessories	320, 374, 761, 276	20%
		Astro Spectra Motorcycle	624, 581, 270	20%
		Astro Spectra	412, 494	28%
		Astro XTL5000	500	20%
		Astro XTL2500	514	23%
		Astro XTL1500	775	23%
		MCS 2000	466, 623, 722	28%
		Astro Spectra Plus	526	20%
		Maratrac	776	20%
		Base Interface	351	15%
		CDM	103, 554, 577, 109	30%
		GTX	867	30%
		All Other Radius	All APC Codes	20%
		Vehicular Repeater System	287	15%
1.1	MOBILE ACCESSORY	Antennas	644, 555, 455	15%
2.0	FIXED STATIONS	Simulcast Controller	335	15%
		MTR 2000	512	29%
		Quantar	448, 225	20%
		Quantar	509	24%
		Astro Spectra Console	374, 761	20%
		XTL5000 Console	276	20%
		Radius All	All APC Codes	20%
2.1	MICROWAVE	Battery Chargers	207	5%
	FIXED STATION ACCESSORIES			
2.2		All Items	207, 274, 201, 351, 740	10%
		All Dropship Not Listed	273, 374, 761	20%
			All APC Codes	10%
2.3	FIXED STATION CONTROLS	ContraCom Gold	404, 202, 228, 322	21%
		Control Modules	228, 244	21%
		Console	202	21%
		Flashport	729	0%
		Command Plus	740, 129	16%
		Command Star	124	16%
		MC Series Desk Top Control	124	16%
		Console Furniture	202, 229, 708	10%
		CRT Console	708	5%
		911 Telephone Products	118	10%
		Recording Equipment	229	5%
		MC3000 Digital	124	16%
2.5	ANTENNA SYSTEMS			
		All Items	207, 708, 291, 229	10%
2.7	RECEIVERS	Minitor IV	183, 839	10%
		Spectra Tac	273	16%
		Quantar Receiver	743, 509	15%

STATE OF MICHIGAN  
Product-Based Discount Schedule

	Astro fac Receiver	743,360,225,677	15%
	MTR2000 Receiver	512	15%

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
3.0	PORTABLE RADIOS	MTS 2000	432, 466, 476, 129	20%
		XTS5000	721	20%
		XTS 3000	326, 620	25%
		XTS 2500	205	20%
		XTS1500	687	20%
		MT/MLS/HT ACCY	476	25%
		HT 750	672	30%
		IIIT 1250	749	30%
		EX400/500	004	25%
		MTX	511, 921	25%
		MT1500	687	20%
		All Other Radios	All APC Codes	20%
		4.0	PAGERS	All Pagers
4.1	PAGING ENCODERS	Zetron 640, 2100, 2200	226	15%
5.0	SECURENET	Comparator	424	20%
		Voice Modem	643	16%
		Key Mgmt Controller	137	15%
		Console Interface	424	20%
		KVL3000	201, 462, 414, 454	16%
		AstroTac	525	20%
		Astro DIU	524	20%
6.2	TRUNKED RADIO	Smartnet systems	277	15%
		Smartzone systems	280, 281	15%
		Smartnet II	131	15%
		ASTRO systems	524, 525	20%
		SIMS II, SIP, Systems Watch	647	15%
		LAS	747	15%
		Program Key	647	15%
		FNX2000	495	15%
		RF-ATA	786	15%
7.0	FLASHPORT	FLASHport software	430	0%
11.0	DATA SYSTEMS	Mobile Workstation 800	736	15%
		ML900 Mobile Workstation	343, 170	15%
		ML 850 Mobile Workstation	343, 170	15%
		Mobile Digital Video Recorder	171	5%
		Workstation 300 & 350	450	10%
		PRM 660 vRM 660	855	10%
		VRM 500, 650, 660, 850	503, 508, 554, 855	12%
		RNC3000	381, 403	12%
		Quantar Data Station	509, 680	12%
		Data Infrastructure	403	5%
		Magic Pipe Software	381	0%
		Mobile Computing Accessories	170 & 291	10%
		Mobil Video	171	10%
		Wide Band Solutions	683, 291	10%
		Canopy	606	10%

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
13.0	FIXED & MOBILE DATA	Moscad, MCP	214	10%
		Intrac	275, 403, 683, 469	15%
14.0	INTEGRATED SOLUTIONS	SCA	879	5%
		Printrak	333, 611	0%
		IX Application	232	0%
		Suncoast	847	0%
		PowerComm	981	0%
15.0	SERVICE PRODUCTS	Intras Board Level Rcp	790	10%
		Information Services	768	10%
		Radio Support Center Services	964A	10%
		Field Response Services	984	10%
16.0	PARTS & ACCESSORIES	All Parts and Accessories	All APC Codes	15%

**NOTES:**

- 1) DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G74 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."
- 2) ANY "DROP SHIP" ITEM NOT OTHERWISE IDENTIFIED BY A PRODUCT CODE (APC) IS DISCOUNTED AT 10%
- 3) ALL ACCESSORIES ORDERED THROUGH MOTOROLA PARTS AND AFTER MARKET ACCESSORIES DIVISION IS 15% DISCOUNT
- 4) VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

November 3, 2004

**CHANGE NOTICE NO. 3**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Compliance Inspector: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>December 1, 2005</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective October 19, 2004, a revised APC code listing of products has been added to this contract. (See attachment) Please note that the additions are new products that are either a replacement or addition to the current product line.

**AUTHORITY/REASON:**

Per agency and vendor concurrence.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$8,050,604.00**

STATE OF MICHIGAN  
Product-Based Discount Schedule

**RADIO COMMUNICATION SYSTEM PRODUCTS**

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
1.0	MOBILE RADIOS	Astro Spectra Motorcycle	624	20%
		Astro Spectra	412,494	28%
		XTL5000	500	20%
		MCS 2000	722	28%
		MCS 2000	466,623	28%
		Astro Spectra Plus	526	20%
		Maratrac	776	20%
		CDM	103,109,792	30%
		GTX	867	30%
		All Other Radius	**	20%
		Vehicular Repeater System	287	15%
2.0	FIXED STATIONS	MTR 2000	512	29%
		Quantar	448,225	20%
		Quantar	509	24%
		Astro Spectra Consollette	374,761	20%
2.2	FIXED STATION ACCESSORIES	Spectra Tac Receiver	273	20%
		Quantar Receiver	677,743	20%
2.3	FIXED STATION CONTROLS	All Dropship Not Listed	**	10%
		Console	228	21%
		Console	404	21%
		Console	202	21%
		Console	322	21%
		Command Star Console	740	16%
		Command Star Console	124	16%
		MC Series Desk Top Control	124	16%
		Console Furniture	29	10%
		Plant E911	118	10%

STATE OF MICHIGAN  
Product-Based Discount Schedule

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
2.5	ANTENNA SYSTEMS	Antenna/Line	207	10%
		Antenna/Line	708	10%
3.0	PORTABLE RADIOS	MTS 2000	432	20%
		XTS5000	721	20%
		XTS 3000	326,620	25%
		XTS 2500	205	20%
		XTS1500	687	20%
		MT/MTS/HT ACCY	476	25%
		HT 750	672	30%
		HT 1250	749	30%
		EX400/500	004	25%
		XTS5000	721	20%
		MTX	511,921	25%
		MT1500	687	20%
		All Other Radius	**	20%
		6.2	TRUNKED RADIO	Smarnet systems
Smartzone systems	280,281			15%
ASTRO systems	524,525			20%
Astro Tac Comparator/Receiver	525			20%
Securennet Comparator	424			20%
Astro DIU	524			20%
7.0	FLASHPORT			FLASHport software
11.0	DATA SYSTEMS	Mobile Workstation 800	736	15%
		ML900 Mobile Workstation	343,170	15%
		ML850 Mobile Workstation	343,170	15%
		Mobile Digital Video Recorder	171	5%
		Workstation 300 & 350	450	10%
		PRM 660 VRM 660	855	10%
		VRM 500, 650,660, 850	503,508, 554,855	12%
		RNC3000	381 403	12%
		Quantar Data Station	509 680	12%
		Data Infrastructure	403	5%
		Magic Pipe Software	381	0%
		Mobile Computing Accesssoies	170 & 291	10%

STATE OF MICHIGAN  
Product-Based Discount Schedule

<b>SECTION</b>				
<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
	<b>WIRELESS NETWORKS</b>	Canopy	606	10%
<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
		SCA	879	5%
		Printrak	333	0%
		Printrak	611	0%
		Suncoast	842	0%
		PowerComm	981	0%
<b>FIXED DATA SYSTEM PRODUCTS</b>				
<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
		MOSCAD	214	10%
		MOSCAD RTU	469	10%
<b>PAGING SYSTEM PRODUCTS</b>				
<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
		All Pagers		15%
		Minitors		15%
<b>SERVICE PRODUCTS</b>				
<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
		Infras Board Level Rep	290	10%
		Information Services	768	10%
		Radio Support Center Services	964A	10%
		Field Response Services	984	10%
<b>PARTS</b>				
<b>SECTION</b>	<b>CATEGORY</b>	<b>MODEL DESCRIPTION</b>	<b>PRODUCT CODES (APC)</b>	<b>DISC. %</b>
		All Parts and Accessories		15%

STATE OF MICHIGAN  
Product-Based Discount Schedule

**NOTES:**

- 1) DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G24 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."
- 2) ANY "DROP SHIP" ITEM NOT OTHERWISE IDENTIFIED BY A PRODUCT CODE (APC) IS DISCOUNTED AT 10%
- 3) ALL ACCESSORIES ORDERED THROUGH MOTOROLA PARTS AND AFTER MARKET ACCESSORIES DIVISION IS 15% DISCOUNT
- 4) VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET      September 15, 2004  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

**CHANGE NOTICE NO. 2**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER/CA (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Compliance Inspector: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD:                      From: <b>December 1, 2002</b> To: <b>December 1, 2005</b>	
TERMS <p style="text-align: center;"><b>NET 30</b></p>	SHIPMENT <p style="text-align: center;"><b>30 - 45 DAYS ARO</b></p>
F.O.B. <p style="text-align: center;"><b>DESTINATION</b></p>	SHIPPED FROM <p style="text-align: center;"><b>Schaumburg, IL</b></p>
MINIMUM DELIVERY REQUIREMENTS <p style="text-align: center;"><b>N/A</b></p>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

**Effective September 15, 2004, this contract is hereby INCREASED by \$5,000,000.00. All other terms and conditions remain the same.**

**AUTHORITY/REASON:**

**Per DMB/Acquisition Services.**

**INCREASE:      \$5,000,000.00**

**TOTAL REVISED ESTIMATED CONTRACT VALUE:      \$8,050,604.00**

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933

September 9, 2003

**CHANGE NOTICE NO. 1**  
**TO**  
**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770</b> <b>Fx (517) 321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Administrator: Laura Gyorkos <b>2 Way Radios - Statewide</b>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>December 1, 2005</b>	
TERMS <b>NET 30</b>	SHIPMENT <b>30 - 45 DAYS ARO</b>
F.O.B. <b>DESTINATION</b>	SHIPPED FROM <b>Schaumburg, IL</b>
MINIMUM DELIVERY REQUIREMENTS <b>N/A</b>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

**NATURE OF CHANGE (S):**

Effective September 4, 2003, Motorola has decreased unit costs on average of 6.9%. Please refer to the revised pricing page "Quick Reference Items" for revised prices.

See attached "State of Michigan Product Based Discount Schedule" for revised discount levels.

**TOTAL ESTIMATED CONTRACT VALUE REMAINS: \$3,050,604.00**

## “QUICK REFERENCE ITEMS”

The following items serve as a quick reference for calculated prices based on the discounts listed on the “ITEM LISTING/PRICE PAGE”. The percentage discounts off list do not change but individual prices of items may change based on periodic catalogs published by the manufacturer.

The prices quoted are “net” unit price and an extended amount for each item. Prices shall include delivery and service to Upper and Lower Peninsulas. The percentage (%) of discount that was applied to the price list to calculate the net prices of items specified below MUST also be the same percentage of discount that shall apply to ALL items within the applicable category which are NOT indicated in the item listing. Only one percentage of discount from one catalog and/or price list will be allowed for each category. The respective discount(s) shall apply to any and all items purchased within the applicable category from this contract. Any new items should be available at the established discount rates of the respective categories.

\*Note: Bid prices may be less than the sum of options, but will be honored.

Item	Unit	Description	Net Unit Price with Options
1.	EA	Category A Base Stations/Repeaters 136-174 Mhz  Brand: Motorola Model: MTR 2000 VHF with the following options with 29% discount reflected in prices below:  T5544 (\$724.00) + X330 (\$845.00)+ X597 (\$2,112.00)+ X622 (\$0.00)+ X371 (\$178.00) + X52 (\$256.00) + GMN6147 (\$50.00) + HSN1000 (\$70.00) + 0185180U01 (\$12.00) + RRX4034 (\$51.00)	\$4,298.00
2.	EA	Category A Base Stations/Repeaters 403-470 Mhz  Brand: Motorola Model: MTR 2000 with the following options with 29% discount reflected in prices below:  T5544 (\$724.00)+ X340 (\$1,829.00) + X597 (\$2,112.00), + X622 (\$0.00) + X371 (\$178.00) + X52 (\$256.00) + GMN6147 (\$50.00) + 0185180U01 (\$12.00) + HSN1000 (\$70.00) + RRX4034 (\$51.00)	\$5,282.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
3.	EA	<p>Category A Base Station/Repeaters 450-470 Mhz</p> <p>Brand: Motorola Model: MTR 2000 with the following options with 29% discount reflected in prices below:</p> <p>T5544 (\$724.00)+ X340 (\$1,829.00) + X597 (\$2,112.00), + X622 (\$0.00) + X371 (\$178.00) + X52 (\$256.00) + 0185180U01 (\$12.00) + GMN6147 (\$50.00) +HSN1000 (\$70.00) + RRX4034 (\$51.00)</p>	\$5,282.00
4.	EA	<p>Category A Base Station/Repeaters 806-870 Mhz Conventional</p> <p>Brand: Motorola Model: MTR 2000 with the following options with 29% discount reflected in prices below:</p> <p>T5544 (\$724.00)+ X340 (\$2,752.00) + X597 (\$2,112.00), + X622 (\$0.00) + X371 (\$178.00) + X52 (\$256.00) + GMN6147 (\$50.00) +HSN1000 (\$70.00) + 0185180U01 (\$12.00)+ RRX4034 (\$51.00)</p>	\$6,205.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
5.	EA	<p>Category B Base Station/Repeaters 806-870 Mhz</p> <p>Brand: Motorola Model: Quantar APCO 25 Compatible with the following options with 24% discount reflected in prices below:</p> <p>T5365 (\$5,149.00) + X750 (\$4,799.00) + X806 (\$2,090.00) + X622 (\$0.00) + X371 (\$190.00) + X696 (\$228.00) + X676 (1,140.00) + REX4430 (\$112.00) + REX4429 (\$0.00) + HSN1000 (\$75.00) + RRX4034 (\$55.00) + TRN7738 (\$38.00)</p>	\$13,876.00
6.	EA	<p>Category C Base Station/Programmable Desktop 136-174 Mhz</p> <p>Brand: Motorola Model: Astro Digital Consollette VHF Analog with the following options with 28% discount reflected in prices below:</p> <p>L99DX (\$2,485.00) + 231L (\$514.00) + G241 (\$0.00) + G48 (\$158.00)</p>	\$3,157.00
7.	EA	<p>Category C Base Station/Programmable Desktop 403-470 Mhz</p> <p>Brand: Motorola Model: Astro Digital Consollette UHF Analog with the following options with 28% discount reflected in prices below:</p> <p>L99DX (\$2,485.00) + 248L (\$599.00) + G241 (\$0.00) + G48 (\$158.00)</p>	\$3,242.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
8.	EA	<p>Category C Base Station/Programmable Desktop 450-512 Mhz</p> <p>Brand: Motorola Model: Astro Digital Consollette UHF Analog with the following options with 28% discount reflected in prices below:</p> <p>L99DX (\$2,485.00) + 248L (\$599.00) + G241 (\$0.00) + G48 (\$158.00)</p>	\$3,242.00
9.	EA	<p>Category C Base Station/Programmable Desktop 806-870 Mhz Conventional</p> <p>Brand: Motorola Model: Astro Digital Consollette 800 MHz Analog with the following options with 28% discount reflected in prices below:</p> <p>L99DX (\$2,485.00) + 258L (\$899.00) + G241 (\$0.00) + G48 (\$158.00)</p>	\$3,542.00
10.	EA	<p>Category C Base Station/Programmable Desktop 806-870 Mhz</p> <p>Brand: Motorola Model: Astro Digital Consollette 800 MHz Analog P25 with the following options with 28% discount reflected in prices below:</p> <p>L99DX (\$2,485.00) + 259L (\$899.00) + G806 (\$396.00) + G48 (\$158.00)</p>	\$3,938.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
11.	EA	<p>Category D Mobile Two-Way Radio 136-174 Mhz</p> <p>Brand: Motorola Model: MCS2000 Model I VHS Dash mount with the following options with 28% discount reflected in prices below:</p> <p>MO1MX (\$371.00) + 513W (\$388.00) + H35 (\$162.00) + B81 (\$18.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$29.00)</p>	\$968.00
12.	EA	<p>Category D Mobile Two-Way Radio 403-470 Mhz</p> <p>Brand: Motorola Model: MCS2000 Model with the following options with 28% discount reflected in prices below:</p> <p>MO1MX (\$371.00) + 513W (\$388.00) + H35 (\$162.00) + B81 (\$18.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$29.00)</p>	\$968.00
13.	EA	<p>Category D Mobile Two-Way Radio 450-512 Mhz</p> <p>Brand: Motorola Model: MCS2000 with the following options with 28% discount reflected in prices below:</p> <p>MO1MX (\$371.00) + 513W (\$388.00) + H35 (\$162.00) + B81 (\$18.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$29.00)</p>	\$968.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
14.	EA	<p>Category D Mobile Two-Way Radio 806-870 Mhz</p> <p>Brand: Motorola Model: MCS2000 with the following options with 28% discount reflected in prices below:</p> <p>MO1MX (\$371.00) + 814W (\$736.00) + H35 (\$162.00) + B81 (\$18.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$29.00)</p>	\$1,316.00
15.	EA	<p>Category D Mobile Two-Way Radio 806-870 Mhz</p> <p>Brand: Motorola Model: APCO 25 Compatible Mobile with the following options with 28% discount reflected in prices below:</p> <p>T99DX (\$1,628.00) + 130W (167.00) + G806 (\$408.00) + G48 (\$159.00)</p>	\$2,362.00
16.	EA	<p>Category D Mobile Two-Way Radio 806-870 Mhz</p> <p>Brand: Motorola Model: MCS2000 Mobile Smartnet II Compatible with the following options with 28% discount reflected in prices below:</p> <p>MO1MX (\$371.00) + 814W (\$736.00) + H37 (\$450.00) + B81 (\$18.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$29.00)</p>	\$1,604.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
17.	EA	<p>Category E Handheld Portables 30-50 Mhz</p> <p>Brand: Motorola HT1250 with the following options with 30% discount reflected in prices below</p> <p>AAH25CEF9AA5_N (\$658.00) - H301 (\$5.00) - H951 (\$20.00)</p>	\$633.00
18.	EA	<p>Category F Handheld Portables 136-174 Mhz</p> <p>Brand: Motorola HT1250 with the following options with 30% discount reflected in prices below</p> <p>AAH25KDF9AA5_N (\$630.00) - H301 (\$5.00) - H951 (\$20.00)</p>	\$605.00
19.	EA	<p>Category F Handheld Portables 403-470 Mhz</p> <p>Brand: Motorola Model: HT1250 with the following options with 30% discount reflected in prices below:</p> <p>AAH25RDFAA5_N (\$668.50) - H301 (\$5.00) - H951 (\$20.00)</p>	\$643.00
20.	EA	<p>Category F Handheld Portables 470-512 Mhz</p> <p>Brand: Motorola Model: HT1250 with the following options with 30% discount reflected in prices below:</p> <p>AAH25SDF9AA5_N (\$668.50) - H301 (\$5.00) - H951 (\$20.00)</p>	\$643.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
21.	EA	Category F Handheld Portables 806-870 Mhz Conventional  Brand: Motorola Model: MT2000 with the following options with 30% discount reflected in prices below:  H01UCD6AA_4 (\$808.50) - H301 (\$10.00) - H951 (\$12.00)	\$787.00
22.	EA	Category G Handheld Portables 806-870 Mhz  Brand: Motorola Model: XTS3000 with the following options with 25% discount reflected in prices below:  H09UCC9PW5 N (\$1,375.00) + Q806 (\$386.00) + H36 (\$600.00)	\$2,361.00

**CATEGORY H –ACCESSORIES/OPTIONS – BASE STATIONS/REPEATERS**

BRAND OR MFGR: Motorola  
PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002  
QUANTITY COLUMN (IF APPLICABLE): N/A  
DISCOUNT FROM LIST TO CALCULATE “NET” PRICES: See Note Below  
DISCOUNT FOR CATEGORY A = 29%; CATEGORY B = 24%

**CATEGORY I –ACCESSORIES/OPTIONS – BASE STATIONS/PROGRAMMABLE DESKTOP**

BRAND OR MFGR: Motorola ASTRO SPECTRA Consollette  
PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002  
QUANTITY COLUMN (IF APPLICABLE): N/A  
DISCOUNT FROM LIST TO CALCULATE “NET” PRICES: 28%

## RADIO COMMUNICATION SYSTEM PRODUCTS

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
1.0	<b>MOBILE RADIOS</b>	Astro Spectra Motorcycle	624	20%
		Astro Spectra	412,494	28%
		MCS 2000	722	28%
		MCS 2000	466,623	28%
		Astro Spectra Plus	526	20%
		LCS 2000	760	20%
		Maratrac	776	20%
		CDM	103,109,792	30%
		GTX	867	30%
		All Other Radius	**	20%
		Vehicular Repeater System	287	15%
2.0	<b>FIXED STATIONS</b>	MTR 2000	512	29%
		Quantar	448,225	20%
		Quantar	509	24%
		Astro Spectra Consollette	374,761	20%
2.2	<b>FIXED STATION ACCESSORIES</b>	Spectra Tac Receiver	273	20%
		Quantar Receiver	677,743	20%
		All Dropship Not Listed	**	10%
2.3	<b>FIXED STATION CONTROLS</b>	Console	228	21%
		Console	404	21%
		Console	202	21%
		Console	322	21%
		Command Star Console	740	16%
		Command Star Console	124	16%
		MC Series Desk Top Control	124	16%
		Console Furniture	29	10%

		Plant E911	118	10%
SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCTCODES (APC)	DISC.%
2.5	ANTENNA SYSTEMS	Antenna/Line	207	10%
3.0	PORTABLE RADIOS	Antenna/Line	708	10%
		MT2000	402,355	30%
		MTS 2000	432	20%
		XTS 3000	326,620	25%
		XTS 2500	205	20%
		MT/MTS/HT ACCY	476	25%
		HT 750	672	30%
		HT 1250	749	30%
		EX400/500	004	25%
		XTS5000	721	20%
		MTX	511,921	25%
		LTS2000	678	20%
		HT1000	355,402	30%
		All Other Radius	**	20%
6.2	TRUNKED RADIO	Smartnet systems	277	15%
		Smartzone systems	280,281	15%
		ASTRO systems	524,525	20%
		Astro Tac Comparator/Receiver	525	20%
		Securennet Comparator	424	20%
		Astro DIU	524	20%
7.0	FLASHPORT	FLASHport software	430	0%
11.0	DATA SYSTEMS	Workstation 520 & 800	736	15%
		Workstation 300 & 350	450	10%
		Mobile Laptop 800	503	10%
		PRM 660 VRM 660	855	10%
		VRM 500, 650, 850	503,508, 554,855	12%
		RNC3000	381 403	12%
		Quantar Data Station	509 680	12%
		Data Infrastructure	403	5%
		Magic Pipe Software	381	0%

		Mobile Computing Accessories	170 & 291	10%
<b>SECTION</b>				
SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
		SCA	879	5%
		Printrak	333	0%
		Printrak	611	0%
		Suncoast	842	0%
		PowerComm	981	0%

### FIXED DATA SYSTEM PRODUCTS

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
		MOSCAD	214	10%
		MOSCAD RTU	469	10%

### PAGING SYSTEM PRODUCTS

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
		All Pagers		15%
		Minitors		15%

### SERVICE PRODUCTS

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
		Infras Board Level Rep	290	10%
		Information Services	768	10%
		Radio Support Center Services	964A	10%
		Field Response Services	984	10%

### PARTS

SECTION	CATEGORY	MODEL DESCRIPTION	PRODUCT CODES (APC)	DISC. %
		All Parts and Accessories		15%

#### NOTES:

- 1) DISCOUNTS APPLY TO ALL EQUIPMENT OPTIONS THAT ARE COVERED BY

THE SAME PRODUCT CODE (APC NUMBER). OPTIONS THAT EXTEND EQUIPMENT WARRANTY, SUCH AS OPTION NUMBER H885 AND G24 ARE NOT DISCOUNTED. THESE ARE CLEARLY IDENTIFIED AS "EXTENDED WARRANTY" OR "EXTENDED PERFORMANCE AGREEMENT."

- 2) ANY "DROP SHIP" ITEM NOT OTHERWISE IDENTIFIED BY A PRODUCT CODE (APC) IS DISCOUNTED AT 10%
- 3) ALL ACCESSORIES ORDERED THROUGH MOTOROLA PARTS AND AFTER MARKET ACCESSORIES DIVISION IS 15% DISCOUNT
- 4) VALUE-ADDED SERVICES INCLUDED WITH THIS CONTRACT ARE:
  - A) ON-SITE HELP WITH SYSTEM DESIGN AND ENGINEERING BEFORE THE PURCHASE
  - B) ASSISTANCE WITH ANALYSES OF AGENCY OPERATIONS, SPECIFIC TO COMMUNICATIONS, TO IDENTIFY POTENTIAL IMPROVEMENTS IN OPERATIONAL EFFICIENCY.

**STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933**

**NOTICE  
 TO  
 CONTRACT NO. 071B3001101  
 between  
 THE STATE OF MICHIGAN  
 and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.          925 Alexandria Drive          Lansing, MI 48917</b>  r.uslan@motorola.com	TELEPHONE: Rick Uslan <b>Ph (517) 323-9770 Fx (517)          321-2382</b>
	VENDOR NUMBER/MAIL CODE
	BUYER (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Administrator: Laura Gyorkos <p style="text-align: center;"><b>2 Way Radios - Statewide</b></p>	
CONTRACT PERIOD: From: <b>December 1, 2002</b> To: <b>December 1, 2005</b>	
TERMS <p style="text-align: center;"><b>NET 30</b></p>	SHIPMENT <p style="text-align: center;"><b>30 - 45 DAYS ARO</b></p>
F.O.B. <p style="text-align: center;"><b>DESTINATION</b></p>	SHIPPED FROM <p style="text-align: center;"><b>Schaumburg, IL</b></p>
MINIMUM DELIVERY REQUIREMENTS <p style="text-align: center;"><b>N/A</b></p>	

**THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.**

The terms and conditions of this Contract are those of [ITB #071I2000123](#) is Contract Agreement and the vendor's quote dated **04/19/02**. In the event of any conflicts between the specifications, terms and conditions indicated by the State and those indicated by the vendor, those of the State take precedence.

**Est. Contract Value: \$3,050,604.00**

**STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 ACQUISITION SERVICES  
 P.O. BOX 30026, LANSING, MI 48909  
 OR  
 530 W. ALLEGAN, LANSING, MI 48933**

**CONTRACT NO. 071B3001101**  
**between**  
**THE STATE OF MICHIGAN**  
**and**

NAME & ADDRESS OF VENDOR  <b>Motorola, Inc.</b> <b>925 Alexandria Drive</b> <b>Lansing, MI 48917</b>	TELEPHONE Rick Uslan <b>Ph (517) 323-9770 Fx (517) 321-2382</b> VENDOR NUMBER/MAIL CODE  BUYER (517) 373-1455 <b>Laura Gyorkos, Buyer</b>
Contract Administrator: Laura Gyorkos <p style="text-align: center;"><b>2 Way Radios - Statewide</b></p>	
CONTRACT PERIOD: From: <b>12/01/02</b> To: <b>12/01/05</b>	
TERMS <p style="text-align: center;"><b>NET 30</b></p>	SHIPMENT <p style="text-align: center;"><b>30 - 45 DAYS ARO</b></p>
F.O.B. <p style="text-align: center;"><b>DESTINATION</b></p>	SHIPPED FROM <p style="text-align: center;"><b>Schaumburg, IL</b></p>
MINIMUM DELIVERY REQUIREMENTS <p style="text-align: center;"><b>N/A</b></p>	
MISCELLANEOUS INFORMATION: <b>THIS CONTRACT IS EXTENDED TO LOCAL UNITS OF GOVERNMENT.</b>  The terms and conditions of this Contract are those of <b>ITB #071I2000123</b> is Contract Agreement and the vendor's quote dated <b>04/19/02</b> . In the event of any conflicts between the specifications, terms and conditions indicated by the State and those indicated by the vendor, those of the State take precedence.  <b>Est. Contract Value: \$3,050,604.00</b>	

**THIS IS NOT AN ORDER:** This Contract Agreement is awarded on the basis of our inquiry bearing the **ITB No. 071I2000123**. A Purchase Order Form will be issued only as the requirements of the State Departments are submitted to the Office of Purchasing. Orders for delivery may be issued directly by the State Departments through the issuance of a Purchase Order Form. This is extended to local units of government.

All terms and conditions of the invitation to bid are made a part hereof.

<b>FOR THE VENDOR:</b>  _____ Firm Name _____ Authorized Agent Signature _____ Authorized Agent (Print or Type) _____ Date	<b>FOR THE STATE:</b>  _____ Signature <b>Anthony Des Chenes, Division Director</b> _____ Name <b>Acquisition Services, Strategic Purchasing</b> _____ Title _____ Date
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Specifications for Base Stations/Repeaters  
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**SECTION I - REQUIREMENTS**

**I-A INTRODUCTION**

This Contract is for Two-Way Radios for the State of Michigan - Statewide. Section I is designed to provide information on requirements associated with this contract.

**I-B SPECIFIC REQUIREMENTS**

**1. COMPANY INFORMATION**

Corporate Headquarters:

Motorola, Inc.  
1301 E. Algonquin Rd.  
Schaumburg, IL 60196

Sector Headquarters:

Motorola, Inc.  
Commercial Government and Industrial Solutions Sector – Northern Division  
85 Harristown Rd.  
Glen Rock, NJ 07452

Local Office:

925 Alexandria Dr.  
Attn: Rick Uslan  
Lansing, MI 48917

**2. PRODUCT QUALITY/SPECIFICATIONS**

All commodities to be furnished hereunder shall conform to the specifications as noted in the “GENERAL SPECIFICATIONS” section of this document. In the event of award, if a product has been misrepresented, the contractor may be found in default of the contract.

If any contractual item changes during the course of the agreement, the State shall be notified of such change(s) and given the option to accept or reject the change. In the event the change(s) is acceptable, the item shall be supplied at the same percentage discount as specified on the contract. Should the State reject the change(s), the contract, or portion thereof, may be canceled. During the course of the contract period, should a question arise concerning the acceptable performance of any contracted item, the State reserves the right to conduct a pass/fail test at the time. If the product in question fails the test, the contract, or portion thereof, may be canceled.

Alternate Brands - Detailed General Specifications have been indicated for all products to be furnished under this contract. A recommended manufacturer and product number has been indicated for each item. Product numbers referenced represent specifically what the State requires. Alternate products must have the ability to meet the qualifications as specified.

**3. DELIVERY**

This contract is to provide radios and service throughout the State of Michigan with delivery no later than 4-6 weeks ARO, F.O.B. delivered. Exceptions may be allowed at the State's discretion based on quantity and complexity.

The contractor shall be responsible for contacting the State agencies to arrange delivery schedules. Failure to deliver items according to established delivery schedules may result in cancellation of the contract for default. In the event of cancellation for default, the contractor shall be responsible for all costs associated with the contract cancellation, as outlined in the cancellation term.

Each order shall be accompanied with a packing slip or invoice. The packing slip or invoice shall contain the following information:

- Agency name and address
- Purchase order number
- Stock number and brief description of each item
- Unit of issue and quantity issued for each item
- Unit price and extended price for each item
- Date order was received by Contractor
- Total price of order

If order is more than one box, the boxes must be labeled with total number of boxes, individual number of box (i.e. Box 1 of 8), and the purchase order number.

**4. PRIOR EXPERIENCE**

The Contractor shall demonstrate their ability to handle and service a Contract of this size and scope. The contractor shall have demonstrated ability to supply products in a timely manner to ensure no product shortages.

5. **SERVICE**

a) **Customer Service**

For product issues and returns –  
Customer Service Representatives: (1-800-247-2346)

The contractor shall have the capability to respond to agency inquiries within one (1) business day of receipt of contact. A Customer Service Representative(s) shall be assigned specifically to the State of Michigan account that shall be prepared to assist the State agencies in any ordering or invoicing problems in a courteous and helpful manner.

b) **Placing Orders**

There are two options for placing orders:

1. Motorola Direct Sales – Each agency can contact the local sales representative who will assist with order placement. A purchase order specifying models and quantities is required for order placement.

Rick Uslan  
925 Alexandria Dr.  
Lansing, MI 48917  
Ph. 517-323-9770

2. Motorola Customer Connection – Agencies can call our inside sales team toll free:

1-800-247-2346

3. Motorola On-Line – Agencies can apply for this free service by completing a form available from Motorola. This service is available 24 hours a day, 7 days a week, 365 days in the calendar year. Available features include order placement, order status, repair status, training, and product information.

The contractor shall have the capability to receive orders by telephone, e-mail, facsimile and by written order. The contractor may offer electronic ordering capability.

c) **Special Purchase Programs**

In addition to the specified items in this contract, Motorola will provide a product – based discount schedule for additional Motorola products and services which might be used in the construction of a communications or information system. The schedule includes a product-based percentage discount for each product or service. This schedule is listed in the appendix.

Product Discounts: The State of Michigan reserves the right to negotiate pricing, discounts and/or rebates directly with the manufacturers for large volume purchases. The Contractor shall pass on to the State all price discounts and reductions in which the State of Michigan is entitled to receive from the manufacturers. These discounts and reductions shall include, without limitation, nonprofit allowances, free goods, rebates, quarterly and other discounts and special manufacturer deal prices. The State reserves the right to change to other product brands carried by the Contractor if the cost is beneficial to the State.

If a manufacturer offers rebates directly to an agency, the Contractor shall track purchase information for each agency for the items affected and submit this information to the manufacturer as required by the manufacturer.

**6. PRICE**

The prices quoted are “net” unit price and an extended amount for each item number on the attached “Item Listing/Price Pages”. Prices shall include delivery and service to Upper and Lower Peninsulas.

The percentage (%) of discount that was applied to the price list to calculate the net prices of items specified on the item listing MUST also be the same percentage of discount that shall apply to ALL items within the applicable category which are NOT indicated in the item listing. Only one percentage of discount from one catalog and/or price list will be allowed for each category. The respective discount(s) shall apply to any and all items purchased within the applicable category from this contract.

Catalogs and price lists shall be pre-printed by the manufacturer for use within the industry. Specially printed catalogs and/or price lists will not be considered. The discount MUST be from the same catalog and price list, used to calculate the UNIT PRICE for items listed in each category of the item listing as well as apply to the same quantity column if column prices based on quantity exist. Multiple percentages of discount (within a category) based on the item(s) or quantity is not acceptable.

Any new items should be available at the established discount rates of the respective categories.

**7. WARRANTY**

All materials, equipment, parts and labor shall be guaranteed for a minimum period of one (1) year to begin from the date the equipment is installed and in accordance with the following:

The contractor(s) will, without charge for parts and labor, repair or replace any defective components, materials or parts, if notice of such defect is given to the contractor (s) within the applicable Warranty Period. The State agencies will place the equipment in service within 12 months after receipt or payment whichever is latter.

Maintenance provided under such warranties shall be provided, during the applicable Warranty Period, under the following terms and conditions:

- 1) The period in which maintenance shall be provided will be 8:00 a.m. to 5:00 p.m. Monday through Friday, excluding legal State designated holidays.
- 2) The State may report a defect Monday through Friday, excluding legal State designated holidays, by telephone call to the contractor(s).
- 3) Arrangements shall be made within 2 (two) State working days of defect notice. Repairs shall be effected and equipment returned or replaced within 30 days.
- 4) Contractor(s) will proceed expeditiously to complete the repair of any defect or failure reported by the State in the shortest practicable time. If any State agency is experiencing an equipment failure rate of greater than 5%, the contractor(s) shall provide immediate repair/replacement of all equipment of the same make and model purchased against the subject contract.

**8. EXTENDED WARRANTY**

Pricing information on the extended warranty is included in the Appendix. Express Service Plan (ESP) provides 1-3 years of extended hardware repair coverage beginning after the standard one-year warranty period. Repairs will be made at the Radio Support Center in Rockford, Illinois. The State of Michigan pays for inbound shipping to the depot and Motorola pays for return shipping. No discounts are allowed on this option. This option is not compatible with Factory Mutual Radios.

**9. MAINTENANCE/SERVICE/EQUIPMENT REPAIR PARTS**

Motorola offers 10% off all maintenance services. This includes maintenance contracts on infrastructure, mobile and portable equipment, RF and data systems. Services range from preventive maintenance, supplemental service, and software subscriptions.

Motorola will use commercially reasonable efforts to provide replacement parts for Motorola manufactured subscriber equipment for five (5) years and for Motorola manufactured fixed infrastructure equipment for seven (7) years, both from the date of last manufacture. Motorola reserves the right to supply either assemblies or piece parts.

Motorola's Customer Service Representatives are available to take calls for product issues and returns at the toll free number (1-800-247-2346).

Field response for infrastructure is handled by a network of over 900 Authorized Servicers, and Company Owned Servicers. This is backed by the Motorola System Support Center (SSC). The SSC is staffed 24 hours a day, 365 days per year. The SSC remotely monitors systems and trouble shoots problems. The SSC also is home to infrastructure spares readily available to be shipped to your site in the event of an emergency outage. All infrastructure contracts are assigned with an ID that is matched to your Customized Support Plan (CSP). This CSP details the execution and responsibility to deliver services.

Mobile, portable and data unit (subscriber equipment) repair is handled by Motorola's Radio Repair Facility location in Rockford, Illinois. All maintenance contracts for subscriber equipment utilizing the Radio Support Center including shipping to and from our facility.

**10. TRAINING**

A training program catalog with detailed descriptions and pricing for the resident and self-paced training courses is available upon request.

**SECTION II - GENERAL CONTRACT PROVISIONS**

**II-A GENERAL**

The Contract is for Two-Way Radios for the State of Michigan - Statewide. Exact quantities to be purchased are unknown, however the Contractor will be required to furnish all such materials and services as may be ordered during the contract period. Quantities specified if any, are estimates based on prior purchases, and the State is not obligated to purchase in these or any other quantities. Orders for delivery will be issued directly to the Contractor by various State Agencies on the Purchase Order Contract Release Form and by Acquisition Services on the Purchase Order Form. Bids are due and will be publicly identified at the time noted on the Invitation To Bid (ITB) Form.

**The Contract(s) awarded from this solicitation will be a unit price contract based on a percentage off list price for an applicable category.**

Attached is a listing of State agencies and/or locations who may order from the Contract. The listing shall not limit participation of additional agencies/locations as the need may develop at the same prices, terms and conditions. Orders may also be issued by local units of government.

**II-B CATALOGS**

Upon request, the Contractor must supply original copies of the manufacturers official public price list as offered on this contract to State Agencies and local units of Government. The catalog should contain a complete description of all available models within each category, manufacturer catalog and product numbers.

**II-C SERVICE MANUALS**

Every item bid must have a detailed service manual available for purchase. The % discount off indicated on the bid for accessories will be applicable to detailed service manuals.

Detailed service manuals are to include theory, electronic schematics, and detailed parts lists.

**II-D INSPECTION OF PRODUCTS**

Product will be inspected by the ordering agency within 48 hours of delivery excluding State holidays and weekends. Products will not be accepted if the products fail to meet specifications either in product quality or packaging or the product is an unauthorized substitute product. The Contractor must arrange the pick up the rejected product within 48 hours of being notified of the rejection by the agency. Defective items must be exchanged or credited by the Contractor at the option of the agency.

**II-E PALLETIZING**

Shipments shall be palletized whenever possible and shall conform to the following:

- Manufacturers standard 4-way shipping pallets are acceptable.
- Maximum height: 5'6"; including pallet.
- Maximum weight: 3500 pounds; including pallet.
- Pallets are to be securely banded or shrink-wrapped.
- The cost of palletizing must be included in the unit price.

**II-F PACKAGING**

The pack sizes indicated on the ITB represent the sizes currently used by the industry. The bidder is requested to provide packaging that most closely meets these packaging sizes. However, bidders can submit alternates. The state reserves the right of final approval on packaging offered by the bidder.

Packaging and containers, etc., shall be in accordance with supplier's commercial practice and shall meet the requirements of Department of Transportation (D.O.T.) and rail and motor carrier freight classifications in effect at time of shipment, which will permit application of the lowest freight rate.

**II-G USAGE REPORTING**

Bidders shall have the capability to report the Contract usage by State agencies and/or local units of government. Such usage shall be reported upon request and by item and to the buyer in Acquisition Services, Department of Management and Budget.

**II-H F.O.B. POINT**

All orders shall be shipped F.O.B. destination with all shipping charges pre-paid. Other F.O.B. terms will not be accepted and shall disqualify a bidder from further consideration. This supersedes Instruction #8 on the reverse side of the Invitation To Bid cover page. Responsibility and liability for loss or damage shall remain with the Contractor until final inspection and acceptance when responsibility shall pass to the agency except as to latent defects, fraud, and the Contractor's warranty obligations, if any.

**II-I QUALITY ASSURANCE**

The bidder shall have a written quality control program which ensures that all manufacturers and suppliers to the Contractor have effective quality control programs, have standard operating procedures and use good manufacturing practices. The Contractor shall monitor the quality control program of all suppliers and manufacturers.

The State reserves the right to periodically test products which have been received to verify compliance with specifications. If laboratory analysis shows that the product does not meet specifications or fails to perform satisfactorily at any time, the Contractor shall be responsible for:

1. All costs of testing and laboratory analysis.
2. Disposal and/or replacement of all products which fail to meet specifications.
3. All costs of repair and/or replacement of equipment deemed to have been damaged by substandard products as determined by the State.

**II-J INVOICING**

The contractor will provide a detailed invoice within 30 days for shipment and repairs.

**II-K ISSUING OFFICE**

The Contract is issued by Acquisition Services, State of Michigan, Department of Management and Budget, hereinafter known as Acquisition Services, where actions are a combination of those of Acquisition Services and the State agencies, the authority will be known as the State.

Acquisition Services is the sole point of contact in the State with regard to all procurement and contractual matters relating to the commodities and/or services described herein. Acquisition Services is the only office authorized to change, modify, amend, alter, clarify, etc., the specifications, terms, and conditions of the Contract. Acquisition Services will remain the **SOLE POINT OF CONTACT** throughout the procurement process. All communications covering this procurement must be addressed to:

Department of Management and Budget  
Office of Purchasing  
[Attn: Laura Gyorkos](#)  
2nd Floor, Mason Building  
P.O. Box 30026  
Lansing, Michigan 48909  
[\(517\) 373-1455](#)  
[gyorkosl@michigan.gov](mailto:gyorkosl@michigan.gov)

**II-L CONTRACT ADMINISTRATOR**

Upon receipt at Acquisition Services of the properly executed Contract Agreement(s), the person named below will be allowed to administer the Contract on a day-to-day basis during the term of the Contract. However, administration of the Contract implies no authority to change, modify, clarify, amend, or otherwise alter the terms, conditions, and specifications of such Contract(s). That authority is retained by Acquisition Services. The Contract Administrator for this project is:

Department of Management and Budget  
Office of Purchasing  
Attn: [Laura Gyorkos](mailto:gyorkosl@michigan.gov)  
2nd Floor, Mason Building  
P.O. Box 30026  
Lansing, Michigan 48909  
(517) 373-1455  
[gyorkosl@michigan.gov](mailto:gyorkosl@michigan.gov)

**II-M CONTRACT TERM**

The term of this contract will be for a three (3) year period and will commence with the issuance of a Contract. This will be approximately [December 1, 2002](#) through [December 1, 2005](#). At the sole option of the State and if the contractor agrees, the contract may be extended for up to 2 (two) additional years. Contractor performance, quality of products, price, and the Contractor's ability to deliver on time are some of the things that will be used as a basis for any decision by Acquisition Services to extend the Contract.

**II-N ENTIRE AGREEMENT AND ORDER OF PRECEDENCE**

The following documents constitute the complete and exclusive agreement between the parties. The following order of precedence shall apply (in descending order):

- A. Any contract resulting from the State's ITB No. 071i2000123.
- B. Contractor's clarifications/exceptions
- C. Any addenda to that ITB.
- D. The Contractor's response to that ITB.

The State of Michigan shall not be bound by any part(s) of the bidder's response to the ITB which contains information, options, conditions, terms, or prices neither requested nor required in the ITB. In the event of any conflicts between the specifications, terms and conditions indicated by the State and those indicated by the Contractor, those of the State take precedence. The contract supercedes all proposals or other prior agreements, oral or written, and all other communications between the parties relating to this subject.

**II-O NO WAIVER OF DEFAULT**

The failure of a party to insist upon strict adherence to any term of the Contract shall not be considered a waiver or deprive the party of the right thereafter to insist upon strict adherence to that term or any other term of the Contract.

**II-P REVISIONS, CONSENTS, AND APPROVALS**

The Contract may not be modified, amended, extended, or augmented except by a writing executed by the parties hereto, and any breach or default by a party shall not be waived or released other than in writing signed by the other party.

**II-Q SEVERABILITY**

Each provision of the Contract shall be deemed to be severable from all other provisions of the Contract and, if one or more of the provisions of the Contract shall be declared invalid, the remaining provisions of the Contract shall remain in full force and effect.

**II-R SURVIVOR**

Any provisions of the Contract that impose continuing obligations on the parties including, but not limited to the Contractor's indemnity and other obligations shall survive the expiration or cancellation of the Contract for any reason.

**II-S GOVERNING LAW**

The Contract shall in all respects be governed by, and construed in accordance with, the laws of the State of Michigan. Any dispute arising herein shall be resolved in the State of Michigan.

**II-T RELATIONSHIP OF THE PARTIES (INDEPENDENT CONTRACTOR)**

The relationship between the State and the Contractor is that of client and independent Contractor. No agent, employee, or servant of the Contractor or any of its subcontractors shall be or shall be deemed to be an employee, agent, or servant of the State for any reason. The Contractor will be solely and entirely responsible for its acts and the acts of its agents, employees, servants and subcontractors during the performance of this Contract.

**II-U HEADINGS**

Captions and headings used in the Contract are for information and organization purposes. Captions and headings, including inaccurate references, do not, in any way, define or limit the requirements or terms and conditions of this Contract.

**II-V INCURRING COSTS**

The State of Michigan is not liable for any cost incurred by the Contractor prior to signing of the Contract. The State fiscal year is October 1st through September 30th. The Contractor(s) should realize that payments in any given fiscal year are contingent upon enactment of legislative appropriations. Total liability of the State is limited to terms and conditions of the Contract.

**II-W NEWS RELEASES**

News releases (including promotional literature and commercial advertisements) pertaining to the ITB and Contract or project to which it relates shall not be made without prior written State approval, and then only in accordance with the explicit written instructions from the

State. No results of the activities associated with the ITB and Contract are to be released without prior written approval of the State and then only to persons designated.

**II-X CONTRACTOR RESPONSIBILITIES**

The Contractor will be required to assume responsibility for all contractual activities, whether or not that Contractor performs them. Further, the State will consider the prime Contractor to be the sole point of contact with regard to contractual matters, including payment of any and all charges resulting from the anticipated Contract. If any part of the work is to be subcontracted, the Contract must include a list of subcontractors, including firm name and address, contact person and a complete description of work to be subcontracted. The State reserves the right to approve subcontractors and to require the primary Contractor to replace subcontractors found to be unacceptable. The Contractor is totally responsible for adherence by the subcontractor to all provisions of the Contract. Any change in subcontractors must be approved by the State, in writing, prior to such change.

**II-Y PERFORMANCE REVIEWS**

Acquisition Services in conjunction with the involved agencies may review with the Contractor their performance under the Contract. Performance reviews shall be conducted quarterly, semi-annually or annually depending on Contractor's past performance with the State. Performance reviews shall include, but not limited to, quality of products being delivered, timeliness of delivery, percentage of completion of orders, the amount of back orders, status of such orders, accuracy of billings, customer service, completion and submission of required paperwork, the number of substitutions and the reasons for substitutions, and other requirements of the Contract.

Upon a finding of poor performance, which has been documented by Acquisition Services, the Contractor shall be given an opportunity to respond and take corrective action. If corrective action is not taken in a reasonable amount of time as determined by Acquisition Services, the Contract may be canceled for default. Acquisition Services reserves the right to cancel the Contract immediately at any time for default, if the Office documents that unsafe and/or adulterated or off-condition products are being delivered to any State agency by the Contractor.

**II-Z PROHIBITED PRODUCTS**

The State will not accept salvage, distressed, outdated or discontinued merchandise. Shipping of such merchandise to any State agency, as a result of an order placed against the Contract, shall be considered default by the Contractor of the terms and conditions of the Contract and may result in cancellation of the Contract by the State. The brand and product number offered for all items shall remain consistent for the term of the Contract, unless Acquisition Services has approved a change.

**II-AA AUDIT OF CONTRACT COMPLIANCE**

The Contractor agrees that the State may, upon reasonable notice, perform an audit at Contractor's location(s) to determine if the Contractor is complying with the requirements of the Contract. The Contractor agrees to cooperate with the State during the audit and produce all records and documentation related to the contract that verifies compliance with the Contract requirements.

**II-BB SAFETY AND ACCIDENT PREVENTION**

In performing work under this Contract on State premises, the Contractor shall conform to any specific safety requirements contained in the Contract or as required by law or regulation. The Contractor shall take any additional precautions as the State may reasonably require for safety and accident prevention purposes. Any violation of such safety requirements, rules, laws or regulations shall be a material breach of the Contract and shall be grounds for cancellation of the Contract in accordance with the Cancellation provisions contained herein.

**II-CC ASSIGNMENT**

The Contractor shall not have the right to assign the Contract or to assign or delegate any of its duties or obligations under the Contract to any other party (whether by operation of law or otherwise) without the prior written consent of the State, whose consent shall not be unreasonably withheld. Any purported assignment in violation of this Section shall be null and void. Further, the Contractor may not assign the right to receive money due under the Contract without the prior written consent of the Director of Acquisition Services..

**II-DD DELEGATION**

The Contractor shall not delegate any duties or obligations under the Contract to a subcontractor other than a subcontractor named and approved in the bid unless the State Purchasing Director has given written consent to the delegation.

**II-EE DISCLOSURE**

MOTOROLA proprietary computer programs will be released in accordance with the Software License provisions set forth elsewhere, if applicable.

**II-FF TAXES**

- A. Sales Tax: For purchases made directly by the State of Michigan, the State is exempt from State and Local Sales Tax. Prices shall not include such taxes. Exemption Certificates for State Sales Tax will be furnished upon request.
- B. Federal Excise Tax: The State of Michigan may be exempt for Federal Excise Tax, or such taxes may be reimbursable, if articles purchased under this Contract are used for the State's exclusive use. Certificates exclusive use for the purposes of substantiating a tax-free, or tax-reimbursable sale will be sent to the Contractor upon request. If a sale is tax exempt or tax reimbursable under the Internal Revenue Code, prices shall not include the Federal Excise Tax.
- C. Contractors are expected to collect and pay all applicable federal, state, and local employment taxes for all persons involved in the resulting Contract. Also, bidders shall maintain appropriate payroll information on a system that can produce any reports that may be needed by Acquisition Services.

**II-GG PRICE**

Prices quoted are the maximum for a period of 365 days from the date the Contract becomes effective.

Prices are subject to change at the end of each 365 day period. Such changes shall be based on changes in actual costs incurred. Documentation of such changes must be provided with the request for price change in order to substantiate any requested change. Acquisition Services reserves the right to consider various pertinent information sources to evaluate price increase requests (such as the CPI and PPI, US City Average, as published by the US Department of Labor, Bureau of Labor Statistics). Acquisition Services also reserves the right to consider other information related to special economic and/or industry circumstances, when evaluating a price change request. Changes may be either increases or decreases, and may be requested by either party. Approved changes shall be firm for the remainder of the contract period unless further revised at the end of the next 365 day period.

Requests for price changes shall be RECEIVED IN WRITING AT LEAST TEN DAYS PRIOR TO THEIR EFFECTIVE DATE, and are subject to written acceptance before becoming effective. In the event new prices are not acceptable, the CONTRACT may be cancelled. The continued payment of any charges due after September 30th of any fiscal year will be subject to the availability of an appropriation for this purpose.

**II-HH ADDITIONAL PRODUCTS**

The State reserves the right to add an item(s) that is not described on the item listing and is available from the Contract vendor. The item(s) may be included on the Contract, only if prior written approval has been granted by Acquisition Services.

**II-II RECYCLED CONTAINERS**

Bidders are encouraged to offer products packaged in containers using recovered materials suitable for the intended use. 'Recovered material' is defined as post-consumer waste (any products generated by a business or consumer which have served their intended end use, and which have been separated or diverted from solid waste for the purpose of collection, recycling, and disposition) and 'secondary waste' (industrial by-products and wastes generated after completion of a manufacturing process that would normally not be reused).

**II-JJ CONTRACTOR'S LIABILITY INSURANCE**

The Contractor is required to provide proof of the minimum levels of insurance coverage as indicated below. The purpose of this coverage shall be to protect the State from claims which may arise out of or result from the Contractor's performance of services under the terms of this Contract, whether such services are performed by the Contractor, or by any subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable.

The Contractor waives all rights against the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, and employees for recovery of damages to the extent these damages are covered by the insurance policies the Contractor is required to maintain pursuant to this Contract. The Contractor also agrees to provide evidence that all applicable insurance policies contain a waiver of subrogation by the insurance company.

All insurance coverages provided relative to this Contract/Purchase Order is PRIMARY and NON-CONTRIBUTING to any comparable liability insurance (including self-insurances) carried by the State.

The Insurance shall be written for not less than any minimum coverage herein specified or required by law, whichever is greater. All deductible amounts for any of the required policies are subject to approval by the State.

The State reserves the right to reject insurance written by an insurer the State deems unacceptable.

**BEFORE THE CONTRACT IS SIGNED BY BOTH PARTIES OR BEFORE THE PURCHASE ORDER IS ISSUED BY THE STATE, THE CONTRACTOR MUST FURNISH TO THE DIRECTOR OF ACQUISITION SERVICES, CERTIFICATE(S) OF INSURANCE VERIFYING INSURANCE COVERAGE. THE CERTIFICATE MUST BE ON THE STANDARD "ACCORD" FORM. THE CONTRACT OR PURCHASE ORDER NO. MUST BE SHOWN ON THE CERTIFICATE OF INSURANCE TO ASSURE CORRECT FILING. All such Certificate(s) are to be prepared and submitted by the Insurance Provider and not by the Contractor. All such Certificate(s) shall contain a provision indicating that coverages afforded under the policies WILL NOT BE CANCELLED, MATERIALLY CHANGED, OR NOT RENEWED without THIRTY (30) days prior written notice, except for 10 days for non-payment of premium, having been given to the Director of Acquisition Services, Department of Management and Budget. Such NOTICE must include the CONTRACT NUMBER affected and be mailed to: Director, Acquisition Services, Department of Management and Budget, P.O. Box 30026, Lansing, Michigan 48909.**

The Contractor is required to provide the type and amount of insurance checked () below:

- 1. Commercial General Liability with the following minimum coverages:

- \$2,000,000 General Aggregate Limit other than Products/Completed Operations
  - \$2,000,000 Products/Completed Operations Aggregate Limit
  - \$1,000,000 Personal & Advertising Injury Limit
  - \$1,000,000 Each Occurrence Limit
  - \$500,000 Fire Damage Limit (any one fire)

The Contractor must list the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees and agents as ADDITIONAL INSURED(S) on the Commercial General Liability policy.

- 2. If a motor vehicle is used to provide services or products under this Contract, the Contractor must have vehicle liability insurance on any auto including owned, hired and non-owned vehicles used in Contractor's business for bodily injury and property damage as required by law.

The Contractor must list the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, and employees as ADDITIONAL INSUREDS on the vehicle liability policy.

- 3. Worker's disability compensation, disability benefit or other similar employee benefit act with minimum statutory limits. NOTE: (1) If coverage is provided by a State fund or if Contractor has qualified as a self-insurer, separate certification must be furnished that coverage is in the state fund or that Contractor has approval to be a self-insurer; (2) Any citing of a policy of insurance must include a listing of the States where that policy's coverage is applicable; and (3) Any policy of insurance must contain a provision or endorsement providing that the insurers' rights of subrogation are waived. This provision shall not be applicable where prohibited or limited by the laws of the jurisdiction in which the work is to be performed.
  
- 4. Employers liability insurance with the following minimum limits:
  - \$100,000 each accident
  - \$100,000 each employee by disease
  - \$500,000 aggregate disease

**II-KK INDEMNIFICATION**

**A. General Indemnification**

To the extent permitted by law, the Contractor shall indemnify, defend and hold harmless the State from liability of any kind, including all claims and losses, and all related costs and expenses (including reasonable attorneys' fees and costs of investigation, litigation, settlement, judgments, interest and penalties), accruing or resulting to any person, firm or corporation that may be injured or damaged by the Contractor in the performance of this Contract and that are attributable to the negligence or tortuous acts of the Contractor or any of its Subcontractors, or by anyone else for whose acts any of them may be liable provided that the Contractor is notified in writing within thirty (30) days from the time that the State has knowledge of such claims. The Contractor shall not be liable to the State for consequential damages arising out of claims brought by third parties except for claims for infringement of any United States patent, copyright, trademark or trade secret.

The contractor agrees to and hereby indemnifies and saves The State harmless from all liabilities which may accrue against the State on account of direct physical damage to tangible property or personal injury to the extent the damage or injury is caused by the contractor's negligence or recklessness, or that of its employees, subcontractors, or agents while on the State's premises during the delivery, installation, or testing of the Communications System pursuant to this Agreement.

B. Patent and Copyright Protection

1. Motorola shall indemnify, defend, and hold harmless the State, its agencies, officers, employees, and agents from and against all losses, liabilities, damages (including taxes) and all related costs and expenses (including reasonable attorneys fees, disbursements and costs of investigation, litigation, settlement, judgments interest and penalties), incurred in connection with any claim, lawsuit or proceeding brought against the State by any third party, to the extent that such claim, action ,or proceeding is based on a claim that any Hardware or Software furnished herein, or the operation of such Hardware or Software, infringes any intellectual property right, or other proprietary right of any person or entity, which right is enforceable under the laws of the U.S.. Any claimed infringement that results from the combination of Hardware and /or Software furnished hereunder with other Hardware and/or Software apparatus, or devices not furnished hereunder and not integrated together with the written advice and consent of the Motorola project manager is specifically excluded from the terms of this indemnification provision. It is further agreed, except as provided herein, that Motorola's obligation to indemnify, defend, and hold harmless the State herein, is subject to the State granting Motorola the exclusive right to control the corresponding settlement and or legal proceedings. Without affecting it's indemnification obligations, Motorola's right to the exclusive control of settlement and or legal proceedings as set forth herein shall be waived to the extent that Motorola has: filed under any chapter of the bankruptcy code, as amended, or for the appointment of a receiver, or if an involuntary petition in bankruptcy is filed against Motorola and said petition is not discharged within sixty (60) days, or becomes insolvent or makes a general assignment for the benefit of its creditors, or if its business or property shall come into the possession of its creditors, a receiver or any governmental agency.
2. The State shall promptly, after receiving notice of the commencement or threatened commencement of any action or proceedings pertaining to an alleged infringement of any intellectual property right with respect to Hardware or Software provided by Motorola, notify Motorola of such claim. No failure to promptly notify Motorola shall relieve Motorola of its indemnification obligations except to the extent that Motorola can demonstrate specific injury attributable to such failure. Within ten (10) days following receipt of written notice from the State relating to such claim, Motorola shall notify the State in writing that it will assume control of the defense and settlement of that claim.
3. If in Motorola's opinion, the Hardware and/or Software furnished hereunder is likely to or does become the subject of a claim of infringement as set forth in this provision, Motorola shall immediately notify the State in writing and without diminishing Motorola's indemnification obligations, may at its option. (a) obtain the right for the State to continue the use of such Hardware and/or Software at Motorola's expense; or (b) if such option is not available to Motorola on commercially reasonable terms, replace or modify to the reasonable satisfaction of the State, the Hardware and/or Software at issue with Hardware or Software of equivalent function and performance so as to make it non-infringing, at Motorola's expense. If the use of such Hardware and/or Software by the State is otherwise prevented by law, Motorola agrees to take back such Hardware and/or Software. The State will pay for the use and maintenance of the Hardware and/or Software from the Acceptance date until the State is enjoined from its use, according to the terms of its Contract. Motorola agrees to grant the customer a credit for returned Hardware and/or Software as depreciated. The depreciation shall be an equal amount per year over the life of the Hardware and/or Software in accordance with prevailing U.S. Tax laws.

4. Motorola shall reserve the right to exclusive control of the settlement negotiations and all legal proceedings to the extent it acknowledges its full indemnification obligations hereunder and can demonstrate to the satisfaction of the State its financial ability to carry out its defense and indemnity obligations.

**II-LL LIMITATION OF LIABILITY**

The Contractor's liability for damages to the State shall be limited to the contract value. The foregoing limitation of liability shall not apply to claims for personal injury caused by the gross negligence or willful misconduct of the Contractor.

The parties agree that neither the Contractor nor the State shall be liable to each other, regardless of the form of action, for consequential, incidental, indirect, or special damages.

**II-MM RIGHT TO KNOW ACT (Act 80 of 1986)**

The "Right to Know Act" is intended to provide protection and information to employees who encounter hazardous substances in the workplace. To comply with this act, it is necessary that you fulfill the following:

Labels on all incoming containers of hazardous chemicals must (1) clearly State the identity of the contents, (2) display appropriate hazard warning(s), (3) include first aid information, and (4) list the name and address of the chemical manufacturer, importer, or other responsible party.

Material Safety Data Sheets must be included with shipment of chemical or hazardous material to the receiving State agency. It is necessary to send this document only on the first shipment for each chemical formulation or hazardous material ordered by a specific agency except when there has been a change in the formulation of the specified chemical or hazardous material, in which case, a revised material safety data sheet shall accompany the first shipment of the changed formulation. It is the responsibility of the shipping vendor to maintain this record. The receiving agency will not accept first shipment unless the above is complied with. It is recommended that OSHA Material Safety Data Sheet No. 174 be used.

**II-NN CONTRACT DISTRIBUTION**

Acquisition Services shall retain the sole right of Contract distribution to all State agencies and local units of government unless other arrangements are authorized by the purchasing office.

**II-OO ACCOUNTING RECORDS**

The Contractor and all subcontractors shall maintain all pertinent financial and accounting records and evidence pertaining to the Contract in accordance with generally accepted principles of accounting.. Financial and accounting records verifying invoice quantities and shipments shall be made available, upon request, to the State of Michigan, its designees, or the Michigan Auditor General at any time during the Contract period and any extension thereof, and for three years from expiration date and final payment on the Contract or extension thereof.

**II-PP NON-DISCRIMINATION CLAUSE**

In the performance of a Contract or purchase order, the contractors agrees not to discriminate against any employee or applicant for employment, with respect to their hire, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment, because of race, color, religion, national origin, ancestry, age, sex, height, weight, marital status, physical or mental handicap or disability. The contractor further agrees that every subcontract entered into for the performance of any Contract or purchase order resulting herefrom will contain a provision requiring non-discrimination in employment, as herein specified, binding upon each subcontractor. This covenant is required pursuant to the Elliot Larsen Civil Rights Act, 1976 Public Act 453, as amended, MCL 37.2201, et seq, and the Michigan Handicapper’s Civil Rights Act, 1976 Public Act 220, as amended, MCL 37.1101, et seq, and any breach thereof may be regarded as a material breach of the Contract or purchase order.

**II-QQ CANCELLATION**

A. Material Breach If a party fails to perform or otherwise breaches a material obligation under this Agreement, the other party may consider the non-performing party to be in default, unless a Force Majeure causes such failure. If the performing party asserts a default, it will give the non-performing party written and detailed notice of the default; and the non-performing party will have thirty (30) days thereafter either to dispute the assertion or provide a written plan to cure the default that is acceptable to the performing party. If the non-performing party provides a cure plan, it will begin implementing the cure plan immediately after receipt of the performing party’s approval of the plan. If the non-performing party fails to cure the default, the performing party may terminate any unfulfilled portion of this Agreement and recover damages as permitted by law and this Agreement.

- B. Cancellation For Convenience By the State. The State may cancel this Contract for its convenience, in whole or part, if the State determines that such a cancellation is in the State's best interest. Reasons for such cancellation shall be left to the sole discretion of the State and may include, but not necessarily be limited to (a) the State no longer needs the services or products specified in the Contract, (b) relocation of office, program changes, changes in laws, rules, or regulations make implementation of the Contract services no longer practical or feasible, and (c) unacceptable prices for additional services requested by the State. The State may cancel the Contract for its convenience, in whole or in part, by giving the Contractor written notice 30 days prior to the date of cancellation. If the State chooses to cancel this Contract in part, the charges payable under this Contract shall be equitably adjusted to reflect those services that are cancelled.
  
- C. Cancellation for non-appropriation. In the event that funds to enable the State to effect continued payment under this Contract are not appropriated or otherwise made available. The Contractor acknowledges that, if this Contract extends for several fiscal years, continuation of this Contract is subject to appropriation or availability of funds for this project. If funds are not appropriated or otherwise made available, the State shall have the right to cancel this Contract at the end of the last period for which funds have been appropriated or otherwise made available by giving written notice of cancellation to the Contractor. The State shall give the Contractor written notice of such non-appropriation or unavailability within 30 days after it receives notice of such non-appropriation or unavailability.
  
- D. Cancellation for criminal conviction. In the event the Contractor, an officer of the Contractor, or an owner of a 25% or greater share of the Contractor, is convicted of a criminal offense incident to the application for or performance of a State, public or private Contract or subcontract; or convicted of a criminal offense including but not limited to any of the following: embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, attempting to influence a public employee to breach the ethical conduct standards for State of Michigan employees; convicted under State or federal antitrust statutes; or convicted of any other criminal offense which in the sole discretion of the State, reflects upon the Contractor's business integrity.
  
- E. In the event any final administrative or judicial decision or adjudication disapproves a previously approved request for purchase of personal services pursuant to Constitution 1963, Article 11, section 5, and Civil Service Rule 4-6. Cancellation may be in whole or in part and may be immediate as of the date of the written notice to the Contractor or may be effective as of the date stated in such written notice.

**II-RR NOTICE AND RIGHT TO CURE**

In the event of a curable breach by the Contractor, the State shall provide the Contractor written notice of the breach and a time period to cure said breach described in the notice. This section requiring notice and an opportunity to cure shall not be applicable in the event of successive or repeated breaches of the same nature or if the State determines in its sole discretion that the breach poses a serious and imminent threat to the health or safety of any person or the imminent loss, damage or destruction of any real or tangible personal property.

**II-SS ELECTRONIC FUNDS TRANSFER**

Electronic transfer of funds is available to State contractors. Vendors are encouraged to register with the State of Michigan Office of Financial Management so the State can make payments related to this Contract electronically.

**II-TT MODIFICATION OF CONTRACT**

Acquisition Services reserves the right to modify this contract at any time during the contract term. Such modification may include changing the locations to be serviced, additional locations to be serviced, method or manner of performance of the work, number of days service is to be performed, addition or deletion of tasks to be performed, addition or deletion of items, and/or any other modifications deemed necessary. Any changes in pricing proposed by the Contractor resulting from the proposed changes are subject to acceptance by the State. Changes may be increases or decreases. **IN THE EVENT PRICES ARE NOT ACCEPTABLE TO THE STATE, THE CONTRACT SHALL BE SUBJECT TO COMPETITIVE BIDDING BASED UPON THE NEW SPECIFICATION.**

**II-UU UNFAIR LABOR PRACTICES**

Pursuant to 1980 Public Act 278, as amended, MCL 423.231, et seq, the State shall not award a Contract or subcontract to an employer whose name appears in the current register of employers failing to correct an unfair labor practice compiled pursuant to Section 2 of the Act. A Contractor of the State, in relation to the Contract, shall not enter into a Contract with a subcontractor, manufacturer, or supplier whose name appears in this register. Pursuant to Section 4 of 1980 Public Act 278, MCL 423.324, the State may void any Contract if, subsequent to award of the Contract, the name of the Contractor as an employer, or the name of the subcontractor, manufacturer or supplier of the Contractor appears in the register.

**II-VV MICHIGAN STATE INDUSTRIES**

Michigan State Industries (MSI) provides valuable training opportunities for inmates at State correctional facilities. State agencies are exempt from utilizing the resulting Contract if they would instead prefer to purchase similar items from MSI.

**II-WW FORM, FUNCTION, AND UTILITY**

If the Contract is for use of more than one State agency and if the good or service provided under this Contract do not the meet the form, function, and utility required by a State agency, that agency may, subject to State purchasing policies, procure the good or service from another source.

**II-XX CONTRACT PAYMENT SCHEDULE**

The specific payment schedule for the Contract(s) will be mutually agreed upon by the State the Contractor(s), and approved subcontractors.

Payment terms are Net 30 upon receipt of equipment or invoice date whichever is later.

**II-YY PAYMENTS TO PRIVATE ENTERPRISE**

Payments by the State will be made in accordance with Public Act 279 of 1984 MCL17.51-17.57.

**II-ZZ SUPPLEMENTAL PROVISIONS**

The contractor owns and retains all of its Proprietary Rights in the Equipment and Software. The third party manufacturer of any Equipment and the copyright owner of any Non-Motorola Software own and retain all of their Proprietary Rights in the Equipment and Software. Nothing in this Agreement is intended to restrict the Proprietary Rights of Motorola, any copyright owner of Non-Motorola Software, or any third party manufacturer of Equipment. All intellectual property developed, originated, or prepared by The contractor in connection with providing to The State the Equipment, Software, or related services remain vested exclusively in The contractor, and this Agreement does not grant to The State any shared development rights of intellectual property. This Agreement does not involve any Software that is a “work made for hire.”

Except as explicitly provided in the Software License Agreement, nothing in this Agreement will be deemed to grant, either directly or by implication, estoppel, or otherwise, any right, title or interest in The contractor’s Proprietary Rights. Concerning both the Motorola Software and the Non-Motorola Software, The State agrees not to modify, disassemble, peel components, decompile, otherwise reverse engineer or attempt to reverse engineer, derive source code or create derivative works from, adapt, translate, merge with other software, reproduce, or export the Software, or permit or encourage any third party to do so.

## Software License Agreement

Motorola, Inc., a Delaware corporation, through its Commercial, Government, and Industrial Solutions Sector (“Motorola” or “Licensor”) or Printrak International, Incorporated, a Motorola company (“Printrak” or “Licensor”), and \_\_\_\_\_ (“Licensee”), hereby enter into this Software License Agreement (“Agreement”). Motorola and Printrak are each authorized to execute this Agreement on behalf of the other. For good and valuable consideration, the parties agree as follows:

### Section 1 SCOPE

Licensor will provide proprietary software and/or radio communications, computer, or other electronic products (“Products”) containing embedded or pre-loaded proprietary software to Licensee. All such software that is owned by Motorola or Printrak is referred to as “Software.” Product and Software documentation that specifies technical and performance features and capabilities, and the user, operation and training manuals for the Software (including all physical or electronic media upon which this information is provided) are collectively referred to as “Documentation.” This Agreement contains the terms and conditions pursuant to which Licensor will license, and Licensee may use, the Software and Documentation.

### Section 2 GRANT OF LICENSE

Licensor hereby grants to Licensee a perpetual, non-exclusive, non-transferable (except as permitted in Section 8 below), license under Licensor’s applicable proprietary rights to use the Software and related Documentation for the purposes for which they were designed and in accordance with the terms and conditions of this Agreement. Such license shall be irrevocable subject only to Licensor’s rights of termination. The license granted authorizes Licensee to use the Software only in object code format and does not grant any rights to source code.

The Licenses granted by Licensor under this Agreement shall, subject to Licensee’s standard employee or independent contractor non-disclosure agreement, as applicable, permit use of the Software by anyone approved for such use by Licensee including its divisions, departments, political subdivisions or officers, employees, contractors, subcontractors, or agents (collectively, the “Users”).

### Section 3 LIMITATIONS ON USE

3.1. Licensee may use the Software only for Licensee's internal business purposes and only in accordance with the Documentation. Any other use of the Software is strictly prohibited. Licensee may not for any reason modify, disassemble, peel components, decompile, otherwise reverse engineer or attempt to reverse engineer, derive source code, create derivative works from, adapt, translate, merge with other software, copy, reproduce, distribute, or export any Software or permit or encourage any third party to do so, except that Licensee may make one copy of Software provided by Licensor to be used solely for archival, back-up, or disaster recovery purposes.

3.2. Licensee may not copy onto or transfer Software installed in one Product device onto another device. Notwithstanding the preceding sentence, Licensee may temporarily transfer Software installed on one device onto another if the original device is inoperable or malfunctioning, provided that Licensee provides written notice to Licensor of such temporary transfer and such temporary transfer is discontinued when the original device is returned to operation. Upon Licensor's written request, Licensee must provide to Licensor a written list of all Product devices in which the Software is installed and being used by Licensee.

3.3. Concerning Motorola's Radio Service Software ("RSS"), if applicable, Licensee must purchase a copy for each location at which Licensee uses RSS. Licensee's use of RSS at an authorized location does not entitle Licensee to use or access the RSS remotely. Licensee may make one additional copy for each computer owned or controlled by Licensee at each such location. Upon Licensor's written request, Licensee must provide to Licensor a written list of all locations where Licensee uses or intends to use RSS.

*Section 4      OWNERSHIP AND TITLE*

Title to all copies of Software will not pass to Licensee at any time but remains vested exclusively in Licensor. Licensor owns and retains all of its proprietary rights in any form concerning the Software and Documentation, including all rights in patents, patent applications, inventions, copyrights, trade secrets, trademarks, trade names, and other intellectual properties (including any corrections, bug fixes, enhancements, updates, or modifications to or derivative works from the Software whether made by Licensor or another party). Nothing in this Agreement is intended to restrict the proprietary rights of Licensor or to grant by implication or estoppel any proprietary rights. All intellectual property developed, originated, or prepared by Licensor in connection with providing to Licensee Software, Products, or related services remain vested exclusively in Licensor, and this Agreement does not grant to Licensee any shared development rights of intellectual property. This Agreement does not involve any software that is a "work made for hire."

*Section 5      CONFIDENTIALITY*

Licensee acknowledges that the Software and Documentation contain Licensor's valuable proprietary and confidential information and trade secrets. Licensee will take necessary and appropriate precautions to maintain and guard the confidentiality of the Software and Documentation, using at least the same degree of care that Licensee applies to its own confidential information but not less than reasonable care. Precautions will include informing Licensee's employees and agents who are authorized to use the Software and Documentation that such information is confidential and may not to be disclosed to others. Licensee will not disclose the Software and Documentation to any third party except as permitted by this Agreement or expressly in writing by Licensor. Licensee will limit access to the Software and Documentation to Licensee's employees and agents who need to know and are authorized to use the Software and Documentation as permitted by this Agreement. The parties agree that the confidentiality covenant contained in this paragraph shall survive the termination of this Agreement.

Section 6      LIMITED WARRANTY

6.1. The warranty period for the Software will commence upon shipment and will continue for 120 days unless Licensor has agreed to a different warranty period in a separate agreement that has been mutually executed by Licensor and Licensee, in which case the warranty period will be as stated in such agreement subject to the remainder of this Section 6.1. For Integration Framework software products, Printrak's Law Records Management System software products and Printrak's Premier CAD SE™ software products, the warranty period shall commence as stated in the applicable agreement and will continue for 120 days. For Printrak Printrak's LiveScan software products, the warranty period shall commence as stated in the applicable agreement and will continue for 90 days. For Software that is application software that is provided on a per unit basis, the warranty period for subsequent units licensed is the remainder (if any) of the initial warranty period or, if the initial warranty period has expired, the remainder (if any) of the term of the applicable Software Maintenance and Support Agreement.

6.2. During the applicable warranty period, Licensor warrants that the unmodified Software, when used properly and in accordance with this Agreement, will be free from a reproducible defect that eliminates the functionality or successful operation of a feature critical to the primary functionality or successful operation of the system. Whether such defect occurs will be determined solely with reference to the Documentation. For Software involving radio frequency systems and Products, the primary functionality of a voice communication system is subscriber-to-subscriber, subscriber-to-dispatcher, and dispatcher-to-subscriber voice communication; and the primary functionality of a data communication system is point-to-point data transmission. Licensor does not warrant that Licensee's use of the Software or Products will be uninterrupted or error-free or that the Software or the Products will meet Licensee's particular requirements unless otherwise stated in this Agreement.

6.3. This agreement is not covered by the Uniform Commercial Code.

6.4 Warranty of Title

Licensor hereby represents and warrants to Licensee that Licensor is the owner of the Software or otherwise has the right to grant to Licensee the rights set forth in this Agreement.

Section 7      LIMITATION OF LIABILITY

The Contractor's liability for damages to the State shall be limited to the contract value. The foregoing limitation of liability shall not apply to claims for personal injury caused by the gross negligence or willful misconduct of the Contractor.

The parties agree that neither the Contractor nor the State shall be liable to each other, regardless of the form of action, for consequential, incidental, indirect, or special damages.

Section 8      TRANSFERS

Licensee may not transfer Software to any third party without Licensor's prior written consent, which consent may be withheld in Licensor's reasonable discretion and may be conditioned upon the transferee paying all applicable license fees and agreeing to be bound by this Agreement. Notwithstanding the preceding sentence, if Licensee transfers ownership of radio Products to a third

party, Licensee may assign its rights to use the Software (other than Radio Service Software and Motorola’s FLASHport® Software) embedded in or furnished for use with those radio Products; provided that Licensee transfers all copies of such Software and the related Documentation to the transferee, and the transferee executes a transfer form to be provided by Licensor upon request (which form obligates the transferee to be bound by this Agreement).

Section 9 TERM AND TERMINATION

9.1 Licensor shall have the right to immediately terminate this Agreement in the event Licensee breaches this Agreement. Licensor shall provide written notice to Licensee of such termination if Licensor has notice of the breach.

9.2 Upon any termination of this Agreement, Licensee will certify in writing within thirty (30) days after termination of this Agreement that all copies of the Software and Documentation have been returned to Licensor or destroyed and are no longer in use by Licensee.

Section 10 NOTICES

Notices required under this Agreement to be given by one party to the other must be in writing and either delivered in person or sent to the address shown below by certified mail, return receipt requested and postage prepaid (or by a recognized courier service with an asset tracking system, such as Federal Express, UPS, or DHL), and shall be effective upon receipt. Change of address must be in writing to the other party.

Licensee  
Attn: Anthony DesChenes  
\_\_\_\_\_  
\_\_\_\_\_

Licensor  
Attn: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Section 11 GENERAL

11.1. COPYRIGHT NOTICES. The existence of a copyright notice on the Software will not be construed as an admission or presumption that public disclosure of the Software or any trade secrets associated with the Software has occurred.

11.2. COMPLIANCE WITH LAWS. Both parties will comply with all applicable laws and regulations, including export laws and regulations of the United States. Licensee will not, without the prior authorization of Licensor and the appropriate governmental authority of the United States, in any form export or re-export, sell or resell, ship or reship, or divert, through direct or indirect means, any item or technical data or direct or indirect products sold or otherwise furnished to any person within any territory for which the United States Government, or any agency thereof, at the time of such action, requires an export license or other governmental approval. Violation of this provision shall be a material breach of this Agreement, permitting immediate termination by Licensor.

11.3. **WAIVERS.** Failure or delay by either party to exercise any right or power under this Agreement will not operate as a waiver of such right or power. For a waiver of a right or power to be effective, it must be in writing signed by the waiving party. An effective waiver of a right or power shall not be construed as either a future or continuing waiver of that same right or power, or the waiver of any other right or power.

11.4. **ENTIRE SOFTWARE AGREEMENT AND AMENDMENT.** This Agreement constitutes the entire agreement of the parties regarding Licensee's use of the Software and may be altered, amended, or modified only by a written instrument signed by an authorized representative of each party, except that Licensor may modify this Agreement as necessary to comply with applicable laws and regulations. This Agreement will be fairly interpreted in accordance with its terms and conditions and not for or against either party.

11.5. **GOVERNING LAW.** This Agreement will be governed by the laws of the United States to the extent that they apply and otherwise by the laws of the State of Michigan. Any dispute arising herein shall be resolved in the State of Michigan.

11.6. **SEVERABILITY.** If any provision of this Agreement is determined by a court of competent jurisdiction to be invalid or otherwise unenforceable, that provision will be severed and the remainder of this Agreement will remain in full force and effect.

In witness whereof, the parties have caused duly authorized representatives to execute this Software License Agreement on the dates set forth below.

Licensor  
By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Licensee  
By: \_\_\_\_\_  
Name: Anthony DesChenes  
Title: Director, Strategic Purchasing  
Date: December 3, 2002

**“QUICK REFERENCE ITEMS”**

The following items serve as a quick reference for calculated prices based on the discounts listed on the “ITEM LISTING/PRICE PAGE”. The percentage discounts off list do not change but individual prices of items may change based on periodic catalogs published by the manufacturer.

The prices quoted are “net” unit price and an extended amount for each item. Prices shall include delivery and service to Upper and Lower Peninsulas. The percentage (%) of discount that was applied to the price list to calculate the net prices of items specified below MUST also be the same percentage of discount that shall apply to ALL items within the applicable category which are NOT indicated in the item listing. Only one percentage of discount from one catalog and/or price list will be allowed for each category. The respective discount(s) shall apply to any and all items purchased within the applicable category from this contract. Any new items should be available at the established discount rates of the respective categories.

\*Note: Bid prices may be less than the sum of options, but will be honored.

Item	Unit	Description	Net Unit Price with Options
1.	EA	Category A Base Stations/Repeaters 136-174 Mhz  Brand: Motorola Model: MTR 2000 VHF with the following options with 25% discount reflected in prices below:  T5544 (\$765.00) + X330 (\$892.50)+ X597 (\$2,231.25)+ X622 (\$0.00)+ X371 (\$187.50) + X52 (\$270.00) + GMN6147 (\$52.88) + HSN1000 (\$74.25) + 0185180U01 (\$12.94) + RRX4034 (\$54.00)	\$4,540.00
2.	EA	Category A Base Stations/Repeaters 403-470 Mhz  Brand: Motorola Model: MTR 2000 with the following options with 25% discount reflected in prices below:  T5544 (\$765)+ X340 (\$1,931.25) + X597 (\$2,231.25), + X622 (\$0.00) + X371 (\$187.50) + X52 (\$270) + GMN6147 (\$52.88) + 0185180U01 (\$12.94) + HSN1000 (\$74.25) + RRX4034 (\$54.00)	\$5,579.00

**“QUICK REFERENCE ITEMS”**

**Page 2 of 9**

Item	Unit	Description	Net Unit Price with Options
3.	EA	Category A Base Station/Repeaters 450-470 Mhz  Brand: Motorola Model: MTR 2000 with the following options with 25% discount reflected in prices below:  T5544 (\$765)+ X340 (\$1,931.25) + X597 (\$2,231.25), + X622 (\$0.00) + X371 (\$187.50) + X52 (\$270) + GMN6147 (\$52.88) + 0185180U01 (\$12.94) + HSN1000 (\$74.25) + RRX4034 (\$54.00)	\$5,579.00
4.	EA	Category A Base Station/Repeaters 806-870 Mhz Conventional  Brand: Motorola Model: MTR 2000 with the following options with 25% discount reflected in prices below:  T5544 (\$765)+ X450 (\$2,906.25) + X597 (\$2,231.25), + X622 (\$0.00) + X371 (\$187.50) + X52 (\$270) + GMN6147 (\$52.88) + 0185180U01 (\$12.94) + HSN1000 (\$74.25) + RRX4034 (\$54.00)	\$6554.00

**“QUICK REFERENCE ITEMS”**

Item	Unit	Description	Net Unit Price with Options
5.	EA	Category B Base Station/Repeaters 806-870 Mhz  Brand: Motorola Model: Quantar APCO 25 Compatible with the following options with 20% discount reflected in prices below:  T5365 (\$5,420.80) + X750 (\$5,051.20) + X806 (\$2,200.00) + X622 (\$0.00) + X371 (\$200.00) + X696 (\$240.00) + X676 (1,200.00) + REX4430 (\$117.60) + REX4429 (\$0.00) + HSN1000 (\$79.20) + RRX4034 (\$57.60) + TRN7738 (\$40.00)	\$14,606.00
6.	EA	Category C Base Station/Programmable Desktop 136-174 Mhz  Brand: Motorola Model: Astro Digital Consollette VHF Analog with the following options with 20% discount reflected in prices below:  L99DX (\$2,760.00) + 231L (\$571.20) + G241 (\$0.00) + G48 (\$176.00)	\$3,507.0
7.	EA	Category C Base Station/Programmable Desktop 403-470 Mhz  Brand: Motorola Model: Astro Digital Consollette UHF Analog with the following options with 20% discount reflected in prices below:  L99DX (\$2,760.00) + 248L (\$666.40) + G241 (\$0.00) + G48 (\$176.00)	\$3,602.00

**“QUICK REFERENCE ITEMS”**

Item	Unit	Description	Net Unit Price with Options
8.	EA	Category C Base Station/Programmable Desktop 450-512 Mhz  Brand: Motorola Model: Astro Digital Consollette UHF Analog with the following options with 20% discount reflected in prices below:  L99DX (\$2,760.00) + 248L (\$666.40) + G241 (\$0.00) + G48 (\$176.00)	\$3,602.00
9.	EA	Category C Base Station/Programmable Desktop 806-870 Mhz Conventional  Brand: Motorola Model: Astro Digital Consollette 800 MHz Analog with the following options with 20% discount reflected in prices below:  L99DX (\$2,760.00) + 258L (\$1,000.40) + G241 (\$0.00) + G48 (\$176.00)	\$3,936.00
10.	EA	Category C Base Station/Programmable Desktop 806-870 Mhz  Brand: Motorola Model: Astro Digital Consollette 800 MHz Analog P25 with the following options with 20% discount reflected in prices below:  L99DX (\$2,760.00) + 259L (\$1,000.00) + G806 (\$440.00) + G48 (\$176.00)	\$4,376.00

**“QUICK REFERENCE ITEMS”**

Item	Unit	Description	Net Unit Price with Options
11.	EA	Category D Mobile Two-Way Radio 136-174 Mhz  Brand: Motorola Model: MCS2000 Model I VHS Dash mount with the following options with 20% discount reflected in prices below:  MO1MX (\$412.00) + 513W (\$431.20) + H35 (\$180.00) + B81 (\$20.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$32.00)	\$1,075.00
12.	EA	Category D Mobile Two-Way Radio 403-470 Mhz  Brand: Motorola Model: MCS2000 Model with the following options with 20% discount reflected in prices below:  MO1MX (\$412.00) + 613W (\$431.20) + H35 (\$180.00) + B81 (\$20.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$32.00)	\$1,075.00
13.	EA	Category D Mobile Two-Way Radio 450-512 Mhz  Brand: Motorola Model: MCS2000 with the following options with 20% discount reflected in prices below:  MO1MX (\$412.00) + 613W (\$431.20) + H35 (\$180.00) + B81 (\$20.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$32.00)	\$1,075.00

**“QUICK REFERENCE ITEMS”**

Item	Unit	Description	Net Unit Price with Options
14.	EA	Category D Mobile Two-Way Radio 806-870 Mhz  Brand: Motorola Model: MCS2000 with the following options with 20% discount reflected in prices below:  MO1MX (\$412.00) + 814W (\$818.40) + H35 (\$180.00) + B81 (\$20.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$32.00)	\$1,462.00
15.	EA	Category D Mobile Two-Way Radio 806-870 Mhz  Brand: Motorola Model: APCO 25 Compatible Mobile with the following options with 20% discount reflected in prices below:  T99DX (\$1,808.80) + 130W (185.60) + G806 (\$453.60) + G48 (\$176.00) = \$2,624.00 (Original Bid price of \$2,607.00 will be honored)	\$2,607.00
16.	EA	Category D Mobile Two-Way Radio 806-870 Mhz  Brand: Motorola Model: MCS2000 Mobile Smartnet II Compatible with the following options with 20% discount reflected in prices below:  MO1MX (\$412.00) + 814W (\$818.40) + H37 (\$500.00) + B81 (\$20.00) + G325 (\$0.00) + B113 (\$0.00) + B382 (\$0.00) + G374 (\$32.00)	\$1,782.00

**“QUICK REFERENCE ITEMS”**

Item	Unit	Description	Net Unit Price with Options
17.	EA	Category E Handheld Portables 30-50 Mhz  Brand: Motorola HT1250 with the following options with 30% discount reflected in prices below  AAH25CEF9AA5_N (\$658.00) - H301 (\$5.00) - H951 (\$20.00)	\$633.00
18.	EA	Category F Handheld Portables 136-174 Mhz  Brand: Motorola HT1250 with the following options with 30% discount reflected in prices below  AAH25KDF9AA5_N (\$630.00) - H301 (\$5.00) - H951 (\$20.00)	\$605.00
19.	EA	Category F Handheld Portables 403-470 Mhz  Brand: Motorola Model: HT1250 with the following options with 30% discount reflected in prices below:  AAH25RDFAA5_N (\$668.50) - H301 (\$5.00) - H951 (\$20.00)	\$643.00
20.	EA	Category F Handheld Portables 470-512 Mhz  Brand: Motorola Model: HT1250 with the following options with 30% discount reflected in prices below:  AAH25SDF9AA5_N (\$668.50) - H301 (\$5.00) - H951 (\$20.00)	\$643.00

**“QUICK REFERENCE ITEMS”**

<b>Item</b>	<b>Unit</b>	<b>Description</b>	<b>Net Unit Price with Options</b>
21.	EA	Category F Handheld Portables 806-870 Mhz Conventional  Brand: Motorola Model: MT2000 with the following options with 30% discount reflected in prices below:  H01UCD6AA_4 (\$808.50) - H301 (\$10.00) - H951 (\$12.00)	\$787.00
22.	EA	Category G Handheld Portables 806-870 Mhz  Brand: Motorola Model: XTS3000 with the following options with 20% discount reflected in prices below:  XTS3000 (\$1,466.40) + Q806 (\$412.00) + H36 (\$640.00)	\$2,518.00

**CATEGORY H –ACCESSORIES/OPTIONS – BASE STATIONS/REPEATERS**

BRAND OR MFGR: Motorola PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002 QUANTITY COLUMN (IF APPLICABLE): N/A DISCOUNT FROM LIST TO CALCULATE “NET” PRICES: See Note Below DISCOUNT FOR CATEGORY A = 25%; CATEGORY B = 20%
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**CATEGORY I –ACCESSORIES/OPTIONS – BASE STATIONS/PROGRAMMABLE DESKTOP**

BRAND OR MFGR: Motorola ASTRO SPECTRA Consollette PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002 QUANTITY COLUMN (IF APPLICABLE): N/A DISCOUNT FROM LIST TO CALCULATE “NET” PRICES: 20%
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**“QUICK REFERENCE ITEMS”**

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**CATEGORY J –ACCESSORIES/OPTIONS – MOBILE RADIOS**

BRAND OR MFGR: Motorola  
PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002  
QUANTITY COLUMN (IF APPLICABLE): N/A  
DISCOUNT FROM LIST TO CALCULATE “NET” PRICES: 20%

**CATEGORY K –ACCESSORIES/OPTIONS – HAND HELD PORTABLES**

BRAND OR MFGR: Motorola  
PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002  
QUANTITY COLUMN (IF APPLICABLE): N/A  
DISCOUNT FROM LIST TO CALCULATE “NET” PRICES: See % Note Below  
DISCOUNT FOR CATEGORIES E&F = 30%; DISCOUNT FOR CATEGORY G = 20%

**CATEGORY L –SERVICE MANUALS**

BRAND OR MFGR: Motorola  
PRICE LIST NAME, NO. & DATE: Motorola ECAT March 2002  
QUANTITY COLUMN (IF APPLICABLE): N/A  
DISCOUNT OFF: 15%

**Please Note: State agencies will have the authority to buy Accessories off contract if it is in the agency’s best interest to do so.**

STATE OF MICHIGAN  
DEPARTMENT OF MANAGEMENT AND BUDGET  
OFFICE OF PURCHASING

**SPECIFICATIONS  
FOR  
BASE STATIONS/REPEATERS**

1. DESCRIPTION

These units shall be all solid state switchable/programmable 12.5/25Khz\_narrow band FM base stations including continuous duty transmitter, receiver, power supply, remote control panel and cabinet. This equipment shall meet or exceed the latest applicable standards of the EIA and all current FCC regulations for Part 90 of the rules. Basic unit shall be one frequency transmitter and one frequency receiver with carrier squelch. Programming software must be Windows 95 or higher compatible.

2. HOUSING

A cabinet of sufficient size to house the requested hardware shall be supplied unless a special option cabinet is requested. Optional 19" racks must be available.

3. CONTROL

Unit shall be locally controlled. All units shall be furnished with a local mobile type microphone in the cabinet for testing. Tone or DC control will be requested as an option.

4. SURGE PROTECTION

AC line surge protection shall be supplied and all power supplies shall be protected against primary line surges. Control line circuits shall be surge protected.

5. POWER SUPPLIES

Units shall be equipped with minimum 110 VAC/12 VDC power supply with fuse protection on primary and secondary.

6. METERING FACILITIES

All points essential to testing and alignment of the transmitter and receiver shall be properly connected to a centralized metering socket or available through programming software.

7. SERVICE MANUALS

Manuals shall include schematic diagrams, theory of operation, printed circuit board layouts and complete parts list. Manual shall cover the basic radio and all options ordered. Manual on CD ROM is acceptable. Manuals shall be considered as an option, but must be available for purchase.

8. OPERATING FREQUENCIES

Final channelization will be coordinated with each individual department at the time an order is placed.

9. RECEIVERS

All receivers shall mute when the transmitter is keyed, all receivers shall be equipped for local monitoring of the audio output, and all receivers shall be equipped with CTCSS filters.

10. PERFORMANCE DATA

**TRANSMITTER**

Frequency Band in Mhz	136-174	403-470 450-512	806-870
Power Output	Minimum adjustable from 0 to 30 watts.		
Frequency Stability -30 degrees C to +60 degrees C	Must be FCC type accepted.		
Spurious & Harmonic	-85 db	-85 db	-85 db
FM Noise	All to be minimum -45 db		
Modulation	All + 5 KHz for conventional with 25Khz channels All + or - 2.5Khz for 12.5 Khz narrow band digital.		
Audio Response	All +1 to -3 db or 6 db per octave pre-emphasis @ 300-3000Hz		
Operating Temperatures	All -30 degrees C to +60 degrees C		

**RECEIVER**

Frequency Band in Mhz	136-174	403-470 450-512	806-870
Selectivity in db	All must meet minimum of -80db		
Stability	All must meet minimum FCC type acceptance.		
Temperature of Operation	All -30 degrees C to +60 degrees C		
Sensitivity			
12 db SINAD	.35 uv	.35 uv	.35 uv
Intermodulation	- -80 db	-80 db	-80 db
Spurious & Image Rejection	Must meet -80db minimum		
Audio Output & Distortion	All minimum 5 watts, less than 3% distortion at 1000Hz		

**BASE STATION OPTIONS**

1. 100 watt transmitter output – for 136-174 MHz with 100 watt option
2. 100 watt transmitter – for 806-870 MHz
3. 75 watt transmitter output – for 403-470 and 450-512 MHz
4. 6 channel programmable at 0 to 30 watt adjustable.
5. Additional complete service manuals, quantities to be specified with order.
6. Tone Remote Control, capable of 2 or 4 wire operation. Transmitter shall be by tone from the remote console and all appropriate tone decoders and filters shall be supplied. Consoles shall be compatible with existing industry standard tone scheme (existing GW, Motorola, etc., base stations). Circuits shall be supplied for the following operations:
  - A. 1 Channel Transmit  
1 Channel Receive
  - B. 2 Channel Transmit  
1 Channel Receive
  - C. 2 Channel Transmit  
2 Channel Receive
  - D. 3 Channel Transmit  
2 Channel Receive

- E. 4 Channel Transmit  
2 Channel Receive
- F. Auxiliary Function 4T/4R
- 7. Extended Local Control with 50 ft. cable.
- 8. Intercom unit for remote panel to allow communication with the remote control console from the base station.
- 9. Weatherproof Cabinet: An outdoor cabinet suitable for pole or wall mounting, weatherproof.
- 10. Receiver Preamp as an option.
- 11. Time Out Timer: An adjustable time out timer on the base station transmitter to disable the transmitter in case of malfunction.
- 12. Mobile Relay: This option shall include all necessary circuitry wired into the station to make it a mobile relay station. This shall include continuous duty power supply, time out timer, repeater control circuit, duplexer and tone remote control for wire line control. Duplexer for VHF, UHF and 800Mhz to be rack mountable.
  - a. 136-174 MHz
  - b. 403-470 MHz  
450-512 MHz
  - c. 806-870 MHz
- 13. Multi-Coupler: An active multi-coupler for coupling at least 3 base station receivers to the base antenna.
- 14. Additional Base Station Receiver for 2R and 3R operation. Unit shall include power supply and all necessary cabling and be mounted in the associated base station. Audio output shall be either 600 ohms for separate remote line feed or wired into the control panel with main receiver. Preference shall be note at time of order.
- 15. Transmitter Channel Capability:
  - A. 1 frequency transmit – active
  - B. 2 frequency transmit – active
  - C. 3 frequency transmit – active
  - D. 4 frequency transmit – active
- 16. Warranty: Standard
- 17. Warranty: Extended 12-month warranty on parts and labor.
- 18. Tone Squelch: To be programmable CTCSS and DCS capable.

19. Remote Control Console: Solid state desk top remote control console with microphone and manual. Unit to be tone control, single or multiple frequency transmit with the following options available:
  - A. VU Meter
  - B. 12 hour clock
  - C. Parallel Operation
  - D. Automatic gain control (tone only model)
  - E. Automatic level control (tone only model)
  - F. Transmit Indicator
  - G. Manual Intercom Switch
  - H. 120 VAC operation
  - I. Surge protection for AC line and control lines
  - J. Transmit switch
  - K. Alternate line control
  - L. Line compensation
  - M. On/Off volume control
  - N. Partial mute
  - O. Tone squelch disable
  - P. 2/4 wire operation
  - Q. Headset operation
  - R. MDC1200 compatible signalling
20. Same as #19 but tone control with 2 frequency transmit.
21. Windows 95 or higher PC compatible software and interface cable for programming of all programmable equipment purchased under this contract.
22. Auto ID, Morse Code, Programmable
23. Service manual - Detailed or Depot manual
24. Training
25. Emergency battery back up power system.

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 OFFICE OF PURCHASING

**SPECIFICATIONS**  
**for**  
**BASE STATIONS/ PROGRAMMABLE DESKTOP**

1. Description: This specification covers 16 frequency desktop switchable/programmable 12.5/25Khz narrow band synthesized/IBM PC programmable FM base station with options. Software must be Windows 95 or higher compatible.
2. Housing: A cabinet of sufficient size to house all standard components shall be furnished.
3. Control: Unit shall be locally controlled. Remote options are listed under options.
4. Surge Protection: AC line surge protection shall be supplied to protect against primary line surges.
5. Power Supplies: Units shall be supplied with a well filtered 117 VAC power supply with fuse protection on primary and secondary. A 12 VDC option is listed under options.
6. Manuals: Manuals shall include schematic diagrams, theory of operations, printed circuit board layouts and complete parts list. Agency to specify quantity required with order.
7. Operating Frequencies: Final channelization will be coordinated with each individual department at the time an order is placed.

**TRANSMITTER**

Frequency in MHz	136-174	403-470	806-870
		450-512	
Power Output	All adjustable minimum 0 to 30 watts		
Load Impedance	50 ohms	50 ohms	50ohms
Frequency Stability -30°C to +60°C	All must meet FCC type acceptance		
Modulation Deviation	All plus or minus 5 KHz for 25 Khz channels All plus or minus 2.5 Khz for 12.5 Khz digital channels		
Audio Distortion	All less than 3% @ 1000 Hz		

Audio Response	All within +1 and =3 db of 6 db/octave pre-emphasis @ 300–3000 per EIA
FM Noise	
Spurious Harmonic	All better than – -63 db

**RECEIVER**

Frequency Band in Mhz	136-174	403-470 450-470	806-870
Selectivity	-75db @ 25Khz -63db @ 12.5Khz	-75db @ 25Khz	-75db @ 25Khz
Input Impedance	All 50 ohms		
Sensitivity EIA 12 Sinad	.35 uv	.35 uv	.35 uv
Frequency Stability -30°C to 60°C	All per FCC type acceptance		
Selectivity @ 24 KHz	All better than –75db		
Spurios & Image Rejection	All better than –65db		
Audio Response	All within +1 and –3 db of 6 db/octave pre-emphasis @ 300-3000 per EIA		
Audio Output	5 watts at less than 5% distortion @ 1000 Hz		

Options

1. Tone Control Operation
2. VU Meter
3. Clock
4. Desk Top Mike
5. Tone Remote
6. 12 Volt DC Standby
7. Tone Squelch – To be programmable CTCSS and DCS capable
8. Multiple Tone Squelch

9. Multiple Frequency Scan With Priority
10. Control Point/Supervisory Operation
11. Receiver Preamp
12. Carrier Control Timer
13. Service Manual – Detailed or Depot Manual
14. Extended 12 month warranty
15. Training
16. MDC 1200 compatible signaling

STATE OF MICHIGAN  
DEPARTMENT OF MANAGEMENT AND BUDGET  
OFFICE OF PURCHASING  
**SPECIFICATIONS**  
**For**  
**MOBILES**

1. Description: Programmable/switchable 12.5/25Khz Narrow band IBM compatible FM mobile radio transmitter-receiver units. Trunk mounted with remote control head, speaker and all interconnecting cables. The equipment shall meet or exceed the latest applicable standards of the EIA and all current regulation for Part 90 of the FCC rules. Radio to be capable of remote trunk mount or dash mount.
2. Housing: The radio set housing shall be designed and constructed to contain and protect the transmitter, receiver and power supply. The front panel shall include a key lock./ The housing shall be designed to protect the internal components against dust, dirt, foreign object, splashing water, and moisture condensation. There shall be no holes or louvers in the housing.
3. Interconnecting cables: All cables and wires shall be furnished to interconnect the mobile unit with it's accessories and the vehicle's electrical system. Cables shall be well insulated, waterproofed and equipped with appropriate connectors. Connectors shall have a fastener to mechanically secure the connections.. Cable length to be approximately 20 feet. All cable connections to the radio unit shall be made to exterior "front" panel receptacles.
4. Control Unit: The control unit shall be functional, attractive and include all facilities for operating the mobile unit. Controls shall include on-off switch, volume control, an indicator for power ON, a red light indicator for transmitter operating and channel selector switch. All the connections to the control unit shall be made by quick disconnect plugs and mating receptacle. Mounting shall meet federal safety requirements for automobile accessories.
5. Loud-Speaker: Enclosure shall be durable and attractive, designed to mount under the dash of vehicle. The loud-speaker shall be acoustically tailored to optimum frequency reproduction for 300 to 3000 Hz and capable of handling the maximum audio output of the mobile unit.
6. Squelch: The receiver shall have noise compensated carrier squelch control. (Tone squelch is listed as an option).
7. Power Supply: The power supply shall be designed to operate from a normal 12-volt negative ground automotive electrical system. Voltage regulator, transmitter and receiver shall be adequately protected by replaceable type fuses or circuit breakers and have reverse polarity protection.
8. Microphone: A military palm-style microphone shall be supplied as part of the equipment.. It shall include a convenient push-to-talk button for transmitter control. The microphone cord shall be of the retractable, flexible, durable rubber covered type with a plug in connection.

9. Service Manual: Manuals shall include schematic diagrams, theory of operation, printed circuit board layouts and complete parts list. Manual shall cover the basic radio and all options ordered. Agency to specify quantity to be supplied with order.
10. Operating Frequencies: All channels shall be active. Final channelization will be coordinated with each individual department at the time an order is placed.

**TRANSMITTER**

Frequency Band in Mhz	136-174	403-470 450-512	806-870
Power	All to be minimum adjustable from 0 to 30 watts		
Frequency Stability -30 degrees C to +60 degrees C	All must meet FCC type acceptance		
Spurious Emissions	All to be minimum -70db		
FM Noise	All to be minimum -40db		
Modulation	±5.0 KHz	±5.0 KHz	±5.0 KHz
	All to be + or - 2.5 KHz digital		
Distortion (Less than)	2% @2/3 dev	2% @2/3 dev	2% @2/3 dev
Audio Response	All +1 to -3 db or 6 db per octave pre-emphasis		
Temp Operation	All -30 degrees C to +60 degrees C		

**RECEIVER**

Frequency in Mhz	136-175	403-470 450-512	806-870
Frequency Stability All -30 degrees C to +60 degrees C	All must meet FCC type acceptance		
Sensitivity 12 db SINAD	.35 uv	.35 uv	.35 uv
Spurious Response	-70 db	-70 db	-70 db
Intermodulation Response	-70 db	-70 db	-70 db

Audio Out	All are 5 W @ 3% distortion 300-3000 Hz
Audio Response	All are 6 db/octave de-emphasis
Temp of Operation	All are -30° C to + 60°C

Mobile Radio Contract Options

Power Output

1. 100 watt transmitter

Channel Capability

2. 4 channel transmit and receiver with multi-channel selector switch.
3. 8 channel transmit and receiver with multi-channel selector switch.
4. 16 channel transmit and receiver with multi-channel selector switch.
5. Programmable 1 to 128 channels

Scan Function

6. Multiple scan function: The radio shall have scanning devices that must scan and select signal from a minimum of four channels. The scanner must include a programmable priority channel selector that will allow re-sampling of a designated channel while locked onto another receiving channel. Channel scan control head will incorporate an indicating device that will indicate the channel being monitored. Scan or non-scan squelch adjustment shall be made with a control accessible to the operator.
7. Ignition sense
8. Weather proof head

Warranty

9. Warranty: Extended 12 month warranty on parts and labor.

Manuals

10. Service manual.

11. 10 watt audio

Microphone

12. Noise canceling mobile microphone.

13. Programmable CTCSS/DCS squelch system per channel

14. Electronic Siren Module: A 100 watt electronic siren/PA system that has the control function incorporated in the mobile radio control head.

15. An additional installation kit to include control head, microphone, speaker, radio mounting plate and all associated cables.

16. Windows 95 or higher PC compatible software and interface cables for programming of programmable equipment purchased under this contract.

17. Training.

18. MDC 1200 compatible signaling.

STATE OF MICHIGAN  
DEPARTMENT OF MANAGEMENT AND BUDGET  
OFFICE OF PURCHASING

**SPECIFICATIONS**  
**For**  
**HANDHELD PORTABLES 30-50 Mhz**

Description: 30-50 MHz Band, personal portable radio, using the latest technology in the industry. The portable unit is to be fully synthesized by electronically erasable PROM technology for frequency and tone squelch programming. This equipment shall meet or exceed the latest applicable standards of the EIA:

CONSTRUCTION AND DESIGN

These units are to be all solid state and meet all current FCC regulations for Part 90 of the FCC rules. Radio shall have jacks to allow plugging in external antenna and remote speaker microphone.

1. TECHNICAL SPECIFICATIONS

All hand held portable transceivers shall meet the following minimum specifications:

**TRANSMITTER**

Power Output	5 watts
Modulation Deviation	± 5 KHz
Audio Distortion	Less than 3%
Frequency Stability	To meet FCC type acceptance @ -30° C to + 60° C

**RECEIVER**

Sensitivity	0.35 uv for 12 db Sinad
Selectivity	-70 db
Intermodulation	-60 db
Spurious Response	-60 db
Frequency Stability	To meet FCC type acceptance @ -30° C to +60° C
Audio Output	minimum 300mw

2. BATTERY

Each unit shall be furnished with a rapid charge battery that will last for 8 hours with a 90-5-5 duty cycle.

OPTIONS

1. DTMF touch tone encode keypad on face of portable.
2. Minimum 6 Channel operation.
3. Multi-position 110 VAC dual rate charger
4. A 110 VAC dual rate single unit
5. Flexible rubber covered antenna.
6. External speaker microphone.
7. Programming Software and interface.
8. Leather carrying case with belt loop.
9. Service manual. A comprehensive service manual shall be supplied which shall have the theory of operation, schematics, PC board print, parts layout and parts list.  
Agency to specify quantity to be supplied with order.
10. Tone squelch – Programmable CTCSS or DCS
11. Additional rapid charge battery.
12. Shoulder straps for carrying case.
13. Extended 12 Month Warranty.
14. Training.
15. VOX capability
16. Nicad battery
17. Lithium battery
18. Nickel/metal hydride battery
19. Belt clip
20. User programmable priority scan
21. Intrinsically safe

STATE OF MICHIGAN  
 DEPARTMENT OF MANAGEMENT AND BUDGET  
 OFFICE OF PURCHASING

**SPECIFICATIONS**  
**For**  
**HANDHELD PORTABLES 136-870 Mhz**

This specification covers a microprocessor based field programmable portable transceiver in the 136 to 174, 403-470, 450 to 512 or 806 to 870 MHz bands. Units shall have programmable radio frequency and tone squelch.

CONSTRUCTION and DESIGN

These units are to be all solid state and meet all current FCC regulations for Part 90 of the FCC Rules. Radio shall have external connection for remote antenna and speaker/microphone. Unit shall be carrier squelch with optional tone squelch.

TECHNICAL SPECIFICATIONS

Programmable wide band width portable transceivers shall meet the following minimum specifications. All shall be capable of programmable CTCSS, DCS and carrier squelch operation. All shall be capable of switchable/programmable 12.5/25Khz channel spacing.

General

Frequency Range in Mhz	136-174	403-470 450-512	806-870
Operating Temp	-30 C to +60 C		
Battery Life	8 hours with 90-5-5 Duty Cycle		

**TRANSMITTER**

Output power	Adjustable 0 to 5 watts	Adj. 0 to 5 watts	Min adjustable 0 to 3 watts
Spurious & Harmonics	All at minimum -60 dB		
Hum & Noise	-40Db	-40 dB	-40 dB
Auto Distortion	All at 5%		

