

**Metro**

Los Angeles County
Metropolitan Transportation Authority

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**SYSTEMS SAFETY AND OPERATIONS COMMITTEE
OCTOBER 17, 2013**

SUBJECT: IN-CAB CAMERAS AND MICROPHONES

ACTION: APPROVE CONTRACT AWARD

RECOMMENDATION

Award a firm fixed price contract under Bid Number OP37903075 to JM Fiber Optics as the lowest responsive and responsible bidder for in-cab rail car cameras, and digital audio and video recorders to become compliant with PUC General Order 172 for an amount not-to-exceed \$2,800,186 exclusive of sales tax.

ISSUE

In September 2011, the California Public Utilities Commission (CPUC) created General Order (GO) 172, which specifies the installation of train operator video and audio monitoring devices in the train cab. This procurement will implement and satisfy the conditions detailed in CPUC's GO 172 by providing the necessary equipment to perform video and audio monitoring.

DISCUSSION

This procurement will allow Metro to become compliant with CPUC General Order 172, before the October 2014 deadline, and will more importantly allow staff to proactively monitor operators for compliance with safety operating rules and procedures. Cameras and microphones will be installed in all 448 rail vehicle cabs serving all Metro rail lines. The in-cab cameras will also serve as a valuable tool when investigating accidents and reviewing complaints.

DETERMINATION OF SAFETY IMPACT

Compliance with CPUC General Order 172 through the installation of in-cab cameras will help ensure safe operation of rail vehicles. The in-cab cameras will provide both oversight into compliance with operating rules and procedure, and enhance investigations of incidents and complaints.

FINANCIAL IMPACT

Total contract value is \$2,800,186. The funding of \$1,750,000 for this project is included in the FY14 budget in cost center 3960, Wayside Systems, item 50316, Service Professional Technical Services, project 209057, Camera in Cab – CPUC General Order 172.

The cost center manager, project manager, and Executive Officer, Maintenance of Way will ensure that the funds are budgeted in future fiscal years, as needed.

Impact to Budget

The funding for this acquisition will come from the Proposition A 35% Rail Funds. These funds are eligible to be used for rail operating and capital projects.

ALTERNATIVES CONSIDERED

The alternative is to not award the contract but that will result in non-compliance with State safety regulations. The installation of in-cab cameras and microphones will help to ensure system safety.

NEXT STEPS

Upon Board approval, a notice to proceed will be issued. The in-cab cameras, and DVR's and compliance with CPUC GO 172 will be fulfilled under the provisions and execution of this contract.

ATTACHMENTS

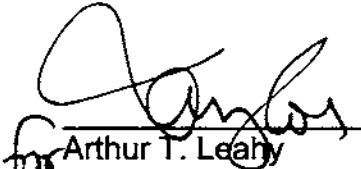
- A. Procurement Summary
- B. Bid Tabulation
- C. Schedule of Quantities and Prices Form

Prepared By: Daniel Lindstrom, Wayside Systems Manager
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Michelle Lopes Caldwell
Chief Administrative Services Officer


Frank Alejandro
Chief Operations Officer


Arthur T. Leahy
Chief Executive Officer

PROCUREMENT SUMMARY
Supply and Install New In-Cab Cameras / OP37903075

1.	Contract Number: OP37903075	
2.	Recommended Vendor: <ul style="list-style-type: none"> • JM Fiber Optics, 1400 Rochester Rd, Troy, MI 48083 	
3.	Type of Procurement (check one) : <input checked="" type="checkbox"/> IFB <input type="checkbox"/> RFP <input type="checkbox"/> RFP – A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order	
4.	Procurement Dates:	
	A. Issued: 5/30/13	
	B. Advertised/Publicized: 5/30/13	
	C. Pre-proposal/Pre-Bid Conference: 6/6/13	
	D. Proposals/Bids Due: 8/6/13	
	E. Pre-Qualification Completed:	
	F. Conflict of Interest Form Submitted to Ethics: Yes	
	G. Protest Period End Date: October 21, 2013	
5.	Solicitations Picked up/Downloaded: 23	Bids/Proposals Received: 7
6.	Contract Administrator: Ruth DeWitt	Telephone Number: (213) 922-1076
7.	Project Manager: Robert Fischer	Telephone Number: (213) 841-9635

A. Procurement Background

Procurement of in-cab video and audio devices was conducted as a formal sealed bid, competitive acquisition in support of California Public Utilities Commission (CPUC) General Order 172 directive for all public transportation authorities that are overseen by the CPUC to provide in-cab video and audio monitoring of the train operator and random reviews of the recorded video and audio to insure that a train operator is not utilizing a personal electronic device. The directive was issued in September 2011 and requires that transit authorities operating under CPUC rules and regulations to be compliant within three years.

IFB OP39603075 was issued in accordance with Metro's Acquisition Policy on May 30, 2013 and was advertised May 30, 2013. The contract type is Firm-Fixed Price (FFP).

- Amendment No. 1 issued on June 14, 2013 to extend bid due date from 6/24/13 to 7/9/13 and replace Statement of Work due to clarifications;
- Amendment No. 2 issued June 28, 2013 to extend bid due date from 7/9/13 to 7/30/13;

- Amendment No. 3 issued July 3, 2013 to change performance bond checkbox from no to yes;
- Amendment No. 4 issued July 9, 2013 to replace original Schedule of Quantities and Prices with new one; and
- Amendment No. 5 issued July 22, 2013 to extend bid due date from 7/30/13 to 8/6/13 and to include Pro Form 132 – Bidders List From which was referenced in the IFB but was not included.

B. Evaluation of Bids

A total of seven bids were received on August 6, 2013. The firm recommended for award, JM Fiber Optics was found to be in full compliance with the bid requirements and was the lowest priced bidder. Apollo Video Technology was also found to be in full compliance but had a higher bid price than JM Fiber Optics. Contract award is recommended to the lowest responsive, responsible bidder, JM Fiber Optics.

The remaining six (6) bidders; Apollo Video Technology, Johnson Controls, UTCFS Mobil View and Transit Marketing Group, AJK Communications, Alstom Transport and Tactical Micro Inc. were all found to be in compliance with the bid requirements, but were higher in cost.

	Bidder/Proposer Name	Bid/Proposal Amount
1.	JM Fiber Optics	\$2,800,186
2.	Apollo Video Technology	\$2,970,304
3.	Johnson Controls	\$3,906,483
4.	UTCFS Mobil View and Transit Marketing Grp.	\$4,029,488
5.	AJK Communications	\$4,327,977
6.	Alstom Transport	\$6,999,507
7.	Tactical Micro Inc.	\$11,097,583

C. Cost/Price Analysis

The recommended bid price of \$2,800,186 has been determined to be fair and reasonable based upon adequate price competition and selection of the lowest responsive and responsible bidder. Cost savings was \$170,117 compared to next lowest bid.

D. Background on Recommended Contractor

The responsive and responsible low bidder, JM Fiber Optics is located in Chino, CA and has been a supplier and distributor of fiber optics and other related products for 21 years. To date, JM Fiber Optics has provided satisfactory products and services to Metro on many previous procurements. In FY13 they had 36 contracts and PO's with Metro ranging in price from \$58 up to \$2.76 million showing their range of capabilities. JM Fiber Optics is an approved Department of Defense and Department of Homeland Security contractor and they are a Metro certified DBE and SBE and was the winner of the City of Los Angeles' Minority Business of the Year in both 2007 and 2013.

E. Small Business Participation

The Diversity and Economic Opportunity Department (DEOD) established a 10% Small Business Enterprise (SBE) requirement for this solicitation. JM Fiber Optics, Inc. made a 7.32% SBE commitment.

SMALL BUSINESS GOAL	SBE 10%	SMALL BUSINESS COMMITMENT	SBE 7.32%
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	SBE Subcontractors	% Committed
1.	Global Electric	7.32%
	Total SBE Commitment	7.32%

F. All Subcontractors Included with Recommended Contractor's Proposal

	Subcontractor	Services Provided	Percentage of Work Performed
1.	Global Electric	Installation and Maintenance Services.	7.32%
2.	Apollo Video Technology	Supply and install in-cab rail cameras and supporting accessories.	68.47%

ATTACHMENT B

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY BID TABULATION
Bid No: OP39603075 Supply and Install In-Cab Rail Cameras

Bids Out: 05/30/13 Total 66
 Bids Opened: 08/07/13 Total 7
 Advertisement Date(s): 05/23/13
 Newspaper: LA Daily News, Orange County Register

	JM Fiber Optics	Apollo Video Technology	Johnson Controls	UTCFS Mobile View and Transit Marketing Group	AJK Communications	Alstom Transport	Tactical Micro Inc.
Description	Total Price	Total Price	Total Price	Total Price	Total Price	Total Price	Total Price
Supply and Install In-Cab Rail Cameras	\$2,800,186.32	\$2,970,304.00	\$3,906,483.00	\$4,029,488.00	\$4,327,977.18	\$6,999,507.49	\$11,097,583.35
Total Price, including all work required to complete item above	\$2,800,186.32	\$2,970,304.00	\$3,906,483.00	\$4,029,488.00	\$4,327,977.18	\$6,999,507.49	\$11,097,583.35

IFB NO. OP39603075 - IN-CAB CAMERAS				
SCHEDULE OF QUANTITIES AND PRICES FORM				
Qty	Model No.	Description	Unit	Ext.
Red/ Purple Line (Heavy)				
104	RR-HDR12-2000	RoadRunner HD™ (High Definition) 16 Camera Mobile Recorder (Licensed for 12 Cameras), Power Cable, Event Switch, Accelerometer and Removable 2.0TB Hard Disk Drive	\$ 4,481.49	\$ 466,074.91
208	RR-HDVE4	RoadRunner HD Video Encoder, 4 Cameras	\$ 439.95	\$ 91,510.63
104	RR-HDAGPS	RoadRunner HD Antenna, GPS	\$ 81.94	\$ 8,521.76
104	RR-HDD2000	RoadRunner HD Removable Hard Disk Drive, 2.0TB	\$ 452.56	\$ 47,066.35
104	RR-HDWT221	RoadRunner HD Wireless 802.11a/b/g/n Industrial Mobile Access Point w/ Rubber Duck Antenna	\$ 457.60	\$ 47,590.77
104	RR-HDA220A	Dual-Band Ruggedized Antenna, Single Input <i>For 5' cables, order RR-A220A1; for 20' cables, order RR-A220A2</i>	\$ 131.70	\$ 13,634.82
104	RR-XCFGL	Wireless LAN A/P or Bridge Configuration (Cost is per unit configured)	\$ 49.16	\$ 5,113.06
208	RR-HDCTDIRA	RoadRunner HD Camera: Color, Vandal Resistant, High Definition IP Addressable, Tapered Dome w/ IR Illumination & Audio Recording	\$ 369.36	\$ 76,826.97
208	RR-HDICC/ICCA	RoadRunner HD Interface Camera Cables	\$ 31.52	\$ 6,555.20
			Subtotal:	\$ 762,894.48
Blue/ Expo Line (Light Rail)				
92	RR-HDR12-2000	RoadRunner HD™ (High Definition) 16 Camera Mobile Recorder (Licensed for 16 Cameras), Power Cable, Event Switch, Accelerometer and Removable 2.0TB Hard Disk Drive	\$ 4,481.49	\$ 412,297.03
184	RR-HDVE4	RoadRunner HD Video Encoder, 4 Cameras	\$ 439.95	\$ 80,951.71
92	RR-HDAGPS	RoadRunner HD Antenna, GPS	\$ 81.94	\$ 7,538.48
92	RR-HDD2000	RoadRunner HD Removable Hard Disk Drive, 2.0TB	\$ 452.56	\$ 41,635.62
92	RR-HDWT221	RoadRunner HD Wireless 802.11a/b/g/n Industrial Mobile Access Point w/ Rubber Duck Antenna	\$ 457.60	\$ 42,099.53
92	RR-HDA220A	Dual-Band Ruggedized Antenna, Single Input <i>For 5' cables, order RR-A220A1; for 20' cables, order RR-A220A2</i>	\$ 131.70	\$ 12,061.57
92	RR-XCFGL	Wireless LAN A/P or Bridge Configuration (Cost is per unit configured)	\$ 49.16	\$ 4,523.09
184	RR-HDCTDIRA	RoadRunner HD Camera: Color, Vandal Resistant, High Definition IP Addressable, Tapered Dome w/ IR Illumination & Audio Recording	\$ 369.36	\$ 67,962.32
184	RR-HDICC/ICCA	RoadRunner HD Interface Camera Cables	\$ 31.52	\$ 5,798.83
			Subtotal:	\$ 674,868.20
Green Line (Light Rail)				
29	RR-HDR12-2000	RoadRunner HD™ (High Definition) 16 Camera Mobile Recorder (Licensed for 16 Cameras), Power Cable, Event Switch, Accelerometer and Removable 2.0TB Hard Disk Drive	\$ 4,481.49	\$ 129,963.20
58	RR-HDVE4	RoadRunner HD Video Encoder, 4 Cameras	\$ 439.95	\$ 25,517.39
29	RR-HDAGPS	RoadRunner HD Antenna, GPS	\$ 81.94	\$ 2,376.26
29	RR-HDD2000	RoadRunner HD Removable Hard Disk Drive, 2.0TB	\$ 452.56	\$ 13,124.27
29	RR-HDWT221	RoadRunner HD Wireless 802.11a/b/g/n Industrial Mobile Access Point w/ Rubber Duck Antenna	\$ 457.60	\$ 13,270.50
29	RR-HDA220A	Dual-Band Ruggedized Antenna, Single Input <i>For 5' cables, order RR-A220A1; for 20' cables, order RR-A220A2</i>	\$ 131.70	\$ 3,802.02
29	RR-XCFGL	Wireless LAN A/P or Bridge Configuration (Cost is per unit configured)	\$ 49.16	\$ 1,425.76
58	RR-HDCTDIRA	RoadRunner HD Camera: Color, Vandal Resistant, High Definition IP Addressable, Tapered Dome w/ IR Illumination & Audio Recording	\$ 369.36	\$ 21,422.91
58	RR-HDICC/ICCA	RoadRunner HD Interface Camera Cables	\$ 31.52	\$ 1,827.89

			Subtotal:	\$	212,730.19
Gold Line (Light Rail, Breda)					
50	RR-HDR12-2000	RoadRunner HD™ (High Definition) 16 Camera Mobile Recorder (Licensed for 16 Cameras), Power Cable, Event Switch, Accelerometer and Removable 2.0TB Hard Disk Drive	\$ 4,481.49	\$	224,074.47
50	RR-HDAGPS	RoadRunner HD Antenna, GPS	\$ 81.94	\$	4,097.00
50	RR-HDD2000	RoadRunner HD Removable Hard Disk Drive, 2.0TB	\$ 452.56	\$	22,628.06
50	RR-HDWT221	RoadRunner HD Wireless 802.11a/b/g/n Industrial Mobile Access Point w/ Rubber Duck Antenna	\$ 457.60	\$	22,880.18
50	RR-HDA220A	Dual-Band Ruggedized Antenna, Single Input	\$ 131.10	\$	6,555.20
		<i>For 5' cables, order RR-A220A1; for 20' cables, order RR-A220A2</i>	\$ -	\$	-
50	RR-XCFGL	Wireless LAN A/P or Bridge Configuration (Cost is per unit configured)	\$ 49.16	\$	2,458.20
100	RR-HDCTDIRA	RoadRunner HD Camera: Color, Vandal Resistant, High Definition IP Addressable, Tapered Dome w/ IR Illumination & Audio Recording	\$ 369.36	\$	36,936.05
400	RR-HDCTDIRA	RoadRunner HD Camera: Color, Vandal Resistant, High Definition IP Addressable, Tapered Dome w/ IR Illumination & Audio Recording	\$ 369.36	\$	147,744.18
500	RR-HDICC/ICCA	RoadRunner HD Interface Camera Cables	\$ 31.52	\$	15,757.70
			Subtotal:	\$	483,131.04
Spares					
28	RR-HDR12-2000	RoadRunner HD™ (High Definition) 16 Camera Mobile Recorder (Licensed for 16 Cameras), Power Cable, Event Switch, Accelerometer and Removable 2.0TB Hard Disk Drive	\$ 4,481.49	\$	125,481.71
45	RR-HDVE4	RoadRunner HD Video Encoder, 4 Cameras	\$ 439.95	\$	19,797.97
28	RR-HDAGPS	RoadRunner HD Antenna, GPS	\$ 81.94	\$	2,294.32
27	RR-HDD2000	RoadRunner HD Removable Hard Disk Drive, 2.0TB	\$ 452.56	\$	12,219.15
28	RR-HDWT221	RoadRunner HD Wireless 802.11a/b/g/n Industrial Mobile Access Point w/ Rubber Duck Antenna	\$ 457.60	\$	12,812.90
28	RR-HDA220A	Dual-Band Ruggedized Antenna, Single Input	\$ 131.10	\$	3,670.91
		<i>For 5' cables, order RR-A220A1; for 20' cables, order RR-A220A2</i>	\$ -	\$	-
28	RR-XCFGL	Wireless LAN A/P or Bridge Configuration (Cost is per unit configured)	\$ 49.16	\$	1,376.59
95	RR-HDCTDIRA	RoadRunner HD Camera: Color, Vandal Resistant, High Definition IP Addressable, Tapered Dome w/ IR Illumination & Audio Recording	\$ 369.36	\$	35,089.24
95	RR-HDICC/ICCA	RoadRunner HD Interface Camera Cables	\$ 31.52	\$	2,993.96
			Subtotal:	\$	215,736.76
Training, On-Site Support, System-Wide Equipment, Software, Etc.					
1	AVT-VIM	ViM (Vehicle Information Management) Base Software Single-Server License w/ Get-A-Clip Software Utility for Unlimited Vehicles*	\$ 9,212.09	\$	9,212.09
1	AVT-VIM-A	ViM (Vehicle Information Management) Software, AutoClip Single-Server License*	\$ 5,293.33	\$	5,293.33
275	AVT-VIM-AL	ViM (Vehicle Information Management) Software, AutoClip Single-Vehicle License*	\$ 263.47	\$	72,453.90
1	AVT-VIM-H	ViM (Vehicle Information Management) Software, DVR Health Single-Server License*	\$ 5,293.33	\$	5,293.33
275	AVT-VIM-HL	ViM (Vehicle Information Management) Software, DVR Health Single-Vehicle License*	\$ 263.47	\$	72,453.90
-	-	RoadRunner System Warranty: 3 Years DVR; 1 Year All Other Components or 2 Years all Equipment			
-	-	Technical Support: Lifetime Remote Support			
-	-	License-Free Access Software			
4	RR-HDDS	RoadRunner HD Docking Station	\$ 439.95	\$	1,759.82

2	AVT-XSN	Software / Networking On-Site Support Visit - up to 2 full days (16 hours) on-site Travel expenses are included for the United States and Canada only. NOTE: Initial On-Site Support Visit is Included at No Additional Charge with Minimum Software and Equipment Purchase of \$250,000	\$ 5,672.77	\$ 11,345.54
1	AVT-XS1	Additional day (8 hours) on site, Standard Service	\$ 1,260.62	\$ 1,260.62
2	AVT-XS	Standard On-Site Support Visit - up to 1 full day (8 hours) on-site Travel expenses are included for the United States and Canada only. NOTE: Initial On-Site Support Visit is Included at No Additional Charge with Minimum Equipment Purchase of \$75,000	\$ 2,521.23	\$ 5,042.46
3	AVT-XS1	Additional day (8 hours) on site, Standard Service	\$ 1,260.62	\$ 3,781.85
			Subtotal:	\$ 187,896.83
			Material Total:	\$ 2,537,257.50
			Labor Total:	\$ 299,583.33
			Contingency (bond, insurance, other) Total:	\$ 75,845.49
			Bid Subtotal Price	\$ 2,912,686.32
			Minus DVR Rebate	\$ 112,500.00
			Bid Total Price	\$ 2,800,186.32
TOTAL BID PRICE: TWO MILLION EIGHT HUNDRED THOUSAND ONE HUNDRED EIGHTY SIX DOLLARS and THIRTY TWO CENTS				
Note: The DVR rebate is based on existing Apollo DVR's in Metro's possession at the time of bid submittal. Quantity is based on 450 DVR's at \$250 per DVR. DVR's must be in proper working condition and inventoried.				