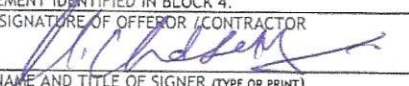
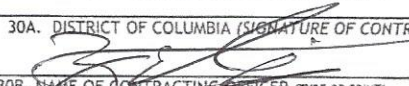


GOVERNMENT OF THE DISTRICT OF COLUMBIA TASK ORDER/DELIVERY ORDER FOR SERVICES OFFEROR TO COMPLETE BLOCKS 18 & 29				1 REQUISITION NUMBER RK144004		PAGE 1 of 6	
2. TASK ORDER AGREEMENT NO. CW79358		3. Award/Effective Date See Block 30c.		4. CONTRACT NUMBER GS-35F-0563U		5. SOLICITATION NUMBER Doc490023	
7. FOR SOLICITATION INFORMATION CONTACT Email: georgette.johnson@dc.gov		A. NAME Georgette Johnson		B. TELEPHONE (No Collect Calls) 202-727-1104		6. SOLICITATION ISSUE DATE 01/08/2020 8. OFFER DUE DATE: 01/21/2020	
9. ISSUED BY Office of Contracting and Procurement Information Technology Group 441 4TH Street, N.W., Suite 330 South Washington, D.C. 20001				10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE %FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> SMALL DISADV. BUS. <input type="checkbox"/> DCSS SIC: SIZE STANDARD:		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input checked="" type="checkbox"/> N/A <input type="checkbox"/> 13. RESERVED 14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFTOP <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP <input type="checkbox"/> 2-STEP	
5. CONTRACTOR / OFFEROR MVS, Inc. 1020 19th Street N.W., Suite 475 Washington, D.C. 20036				16. PAYMENT WILL BE MADE BY CODE Office of the Chief Technology Officer/ Accounts Payable 200 I Street, S.E., Washington, D.C. 20003 www.vendorportal.dc.gov			
15A DUNS NO.		15B TAX ID NO.		17. DELIVER TO Office of the Chief Technology Officer Attn: Tige Johnson 200 I Street, S.E., 5th Floor Washington, D.C. 20003			
18A. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER <input type="checkbox"/>				18B. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 16 UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
19 IEM NO.		20 SCHEDULE OF SUPPLIES/SERVICES		21 QUANTITY		22 UNIT	
0001-0016		Ciena Layer 2 and Customer Interface (See Attachment B for details)		1		Lot	
						23 UNIT PRICE -----	
						24 AMOUNT \$826,036.75	
25. ACCOUNTING AND APPROPRIATION DATA PURCHASE ORDER NO.				26. TOTAL AWARD (FOR GOVT. USE ONLY) \$826,036.75			
27. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ONE COPY TO THE ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL PAGES SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN. THIS ORDER IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS OF THE DC SUPPLY SCHEDULE CONTRACT, FEDERAL SUPPLY SCHEDULE CONTRACT OR COOPERATIVE AGREEMENT IDENTIFIED IN BLOCK 4.				28. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE INTO THIS TASK ORDER IN THE FOLLOWING PRIORITY: (1) CONTRACTOR'S Technical proposal THIS ORDER IS ISSUED SUBJECT TO THE TERMS AND CONDITIONS OF THE DC SUPPLY SCHEDULE CONTRACT, FEDERAL SUPPLY SCHEDULE CONTRACT OR COOPERATIVE AGREEMENT IDENTIFIED IN BLOCK 4.			
29A. SIGNATURE OF OFFEROR (CONTRACTOR) 				30A. DISTRICT OF COLUMBIA (SIGNATURE OF CONTRACTING OFFICER) 			
29B. NAME AND TITLE OF SIGNER (TYPE OR PRINT) Sekhar Mylavarapu Vice President		29C. DATE SIGNED 01/29/2020		30B. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) Chris Yi Contracting Officer		30C. DATE SIGNED 1-29-2020	

Sekhar Mylavarapu | Vice President

01/29/2020

Task Order Agreement No. CW79358

1. SERVICES REQUIRED

The Office of Contracting and Procurement, on behalf of Office of the Chief Technology Officer see to procure Ciena equipment and services for District Government's new data center. The District has selected a new Data Center (ODC4) in the heart of the city to replace the services currently offered at ODC1. The infrastructure for ODC4 must be built to align with the District's vision in developing and operating energy efficient data centers while providing a scale-out data center infrastructure.

2. FEDERAL SUPPLY SCHEDULE CONTRACT NUMBER

GS-35F-0563U

3. TASK ORDER NUMBER

CW79358

4. TERM OF CONTRACT

The period of performance shall be one year from date of Award.

5. CONTRACTING OFFICER (CO)

Contracts may be entered into and signed on behalf of the District Government only by Contracting Officers. The name, address and telephone number of the Contracting Officer for this task order is:

Chris Yi
Office of Contracting and Procurement
441 4th Street N.W., Washington, D.C. 20001
Telephone: 202.724.5069
E-mail: Chris.Yi@dc.gov

5.1 The CO is the only person authorized to approve changes in any of the requirements of this contract.

5.2 The Contractor shall not comply with any order, directive or request that changes or modifies the requirements of this contract, unless issued in writing and signed by the CO.

5.3 In the event the Contractor effects any change at the instruction or request of any person other than the CO, the change will be considered to have been made without authority and no adjustment

6. CONTRACT ADMINISTRATOR (CA)

The CA is responsible for the technical administration of the contract and advising the Contracting Officer as to the Contractor's compliance or noncompliance with the contract. In addition, the CA is responsible for the day-to-day monitoring and supervision of the contract, of ensuring that the work conforms to the requirements of this contract and such other responsibilities and

Task Order Agreement No. CW79358

authorities as may be specified in writing by the Contracting Officer. The CA for this task order is:

Tige Johnson
Office of the Chief Technology Officer
200 I Street S.E., Washington, D.C. 20003
Telephone: 202.715.3753
E-mail: Tige.Johnson@dc.gov

- 6.1** It is understood and agreed that the CA shall not have the authority to make changes in the specifications/scope of work or terms and conditions of the contract.
- 6.2** Contractor shall be held fully responsible for any changes not authorized in advance, in writing, by the Contracting Officer, may be denied compensation or other relief for any additional work performed that is not so authorized, and may also be required, at no additional cost to the District, to take all corrective action necessitated by reason of the unauthorized changes.

7. INVOICE PAYMENT

The District will make payments to the Contractor, upon the submission of proper invoices, at the prices stipulated in this contract, for supplies delivered and accepted or services performed and accepted, less any discounts, allowances or adjustments provided for in this contract.

- 7.1** The District will pay the Contractor on or before the 30th day after receiving a proper invoice from the Contractor.

8. INVOICE SUBMITTAL

The Contractor shall submit proper invoices on a monthly basis or as otherwise specified in the contract.

- 8.1** The Contractor shall submit payment requests in electronic format through the DC Vendor Portal www.vendorportal.dc.gov by selecting the applicable purchase order number which is listed on the Contractor's profile.
- 8.2** To constitute a proper invoice, the Contractor shall attach to all payment requests the invoice and all supporting documentation or information.

9. ATTACHMENTS

Attachment A – Statement of Work

Attachment B - Price Schedule

Attachment C-Contractor's Participating Dealer Agreement

ATTACHMENT A
STATEMENT OF WORK

A.1 SCOPE

The Office of Contracting and Procurement, on behalf of Office of the Chief Technology Officer see to procure Ciena equipment and services for District Government's new data center. The District has selected a new Data Center (ODC4) in the heart of the city to replace the services currently offered at ODC1. The infrastructure for ODC4 must be built to align with the District's vision in developing and operating energy efficient data centers while providing a scale-out data center infrastructure.

A.2 APPLICABLE DOCUMENTS

Not applicable.

A.3 DEFINITIONS

Not applicable.

A.4 BACKGROUND

The District of Columbia Office of the Chief Technology Officer has multiple technology Data Center infrastructure build-out and upgrade initiatives. OCTO's new Data Center will be built on best in class, highly scalable, secure, and reliable networking and communications infrastructure supporting District government agencies' mission critical applications. OCTO will deploy the foundation to support City-wide growth in bandwidth consumption, emerging technologies, and demands for new applications in cloud computing, unified communications, and Internet of Things. Ciena optical transport equipment is needed to maintain the high speed core network routers and communication at the new data center. The new infrastructure build-out will span across multiple segments in the data center for a secure and scalable unified communications and scalable firewall platform.

A.5 Requirements

A.5.1 The Contractor shall provide the following:

Line Item No.	Part Number	Product Family Description	Total Qty
5150			
0001	5150 SERVICE AGGREGATION SWITCH		
001A	170-0100-902	AC PLUGGABLE POWER SUPPLY,CN 5150	12
001B	170-0101-902	DC PLUGGABLE POWER SUPPLY,CN 5150	12
001C	170-0202-904	SAOS ADVANCED PBB-TE APPLICATION PERPETUAL SOFTWARE LICENSE FOR CN 5150 SYSTEM	6

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001D	170-0204-900	SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICENSE FOR USE WITH SAOS 6.X	6
001E	170-0205-904	SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR 48-PORT CN 5150 CHASSIS	6
001F	170-0205-905	SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR CN 5150 (2) 10 GIG MODULE	12
001G	170-0206-904	SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR 48-PORT CN 5150 CHASSIS	6
001H	170-0206-905	SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR CN 5150 (2) 10 GIG MODULE	12
001I	170-5100-900	CN 5150,(2)10G XFP MODULE,EXT. FEATURES	12
001J	170-5150-910	5150,(48)100/1000M SFP,(2)SLOTS 10G DUAL XFP MOD,EXT. TEMP,SYNCH,(2)SLOTS AC OR DC PLUG POWER SUPPLY	6
001K	CABL-PW01NA	AC POWER CORD, IEC C13, NORTH AMERICA,TYPE B	12
0002	SMALL FORM FACTOR PLUGGABLE TRANSCEIVERS		
002A	XCVR-A00Z85	10 GIG,MM XFP OPTIC,LC CONNECTOR,300 METERS,850NM,EXTENDED TEMPERATURE	22
002B	XCVR-A10Y31	100M/1GIG, SM SFP OPTIC, LC CONNECTOR, 10 KM, 1310 NM,EXTENDED TEMPERATURE	22
002C	XCVR-A40V55	10 GIG,SM XFP OPTIC,LC CONNECTOR,40KM,1550 NM,EXTENDED TEMPERATURE	10
002D	XCVR-B00CRJ	10/100/1000M,SFP TRANSCEIVER,RJ45 CONNECTOR,SGMII,100 METERS, RX LOS,EXTENDED TEMPERATURE	20
6500			
0003	6500 SHELF CONFIGURATIONS		
0003A	NTK503ADE5	OPTICAL SHELF (CNVD)	10
0003B	NTK503KA	6500 7-SLOT OPTICAL TYPE 2 SHELF ASSEMBLY	2
003C	NTK503SA	6500 14-SLOT PACKET-OPTICAL SHELF ASSEMBLY	3
0004	AUXILLARY SHELF EQUIPMENT		
004A	NTK507MDE5	6500-14, REAR HF FAN MODULE	39
004B	NTK507PB	COOLING FAN MODULE (7-SLOT SHELF)	2
004C	NTK509CCE6	COVER KIT, OPTICAL SHELF, R3, LEFT LIFT-OFF HINGED	10
004D	NTK509CD	6500-14 OPTICAL SHELF FRONT COVER KIT W/ EXTENDED DEPTH FOR USE WITH NTK503SA	3
004E	NTK509CR	SHELF FRONT COVER W/EXTENDED DEPTH (7-SLOT SHELF)	2
004F	NTK509MCE6	SHELF BRKT KIT, 465 C-C, 127 S/B, EIA HP, O-RE SHLF	10
004G	NTTC01FK	CBL PWR 8AWG 150C 5.0M 2W2C LEFT ROUTED TO OPEN BLACK(L+)/RED(L-)	2

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004H	NTTC01FL	CBL PWR 8AWG 150C 5.0M 2W2C RIGHT ROUTED TO OPEN BLACK(L+)/RED(L-)	2
004I	NTZF99XC	7-SLOT BRACKET KIT (NTK503KA)	2
004J	NTZF99XF	14-SLOT BRACKET KIT (NTK503SA)	3
0005	COMMON EQUIPMENT		
005A	NTK505CAE5	POWER INPUT CARD 60A (BREAKERED)	8
005B	NTK505FBE5	MAINTENANCE INTERFACE CARD	13
005C	NTK505MBE5	ACCESS PANEL, CNVD (SONET)	13
005D	NTK505QA	POWER INPUT CARD (BREAKERED) 2-WIRE D-SUB, MAX 50A	4
005E	NTK505YAE5	INTERFACE FILLER PACK	87
005F	NTZF03MM	6500 REL 12.6 NTK555CAE5 SHELF PROCESSOR (SP-2 FOR 6500-7/14) KIT	3
005G	NTZF06MM	6500 REL 12.6 NTK555FAE5 SHELF PROCESSOR (SP-2 DUAL CPU FOR 6500-7/14/32) KIT	10
005H	NTZF15MM	6500 REL 12.6 NTK555NB SHELF PROCESSOR (SPAP-2 W/2XOSC FOR 6500-2/7 TYPE 2) KIT	3
0006	BROADBAND INTERFACES		
006A	160-9103-900	SFP PLUS, OPTICAL PLUG-IN, OC-192/OTU2, 1310NM, SINGLEMODE, -5 TO 85C	95
006B	160-9116-900	MULTIRATE 850NM, MMF SFP+	170
006C	160-9401-900	100GBASE-LR4, 4X25G, WDM, SMF, 1310NM, 10KM QSFP28	17
006D	160-9701-900	16GFC/32GFC, SMF, 1310NM, 10KM SFP28	17
0007	PHOTONIC COMPONENTS		
007A	NTK553LB	WAVELENGTH SELECTIVE SWITCH (WSS) FLEX C-BAND W/OPM 9X1 CIRCUIT PACK	16
007B	NTK592NGE5	TRANSCEIVER,CWDM,DWDM-OSC,38DB,1511NM,3.3V,0TO70C,SFP,20PINS,LC,ENHANCED MSA	22
0008	PASSIVE OPTICAL SYSTEM		
008A	B-967-0001-002	CN 2150-KIT-19 - CHASSIS, 19 IN. BRACKETS, FIBER BAR AND COVER	4
0009	SOFTWARE / SOFTWARE RTUs		
009A	NTK560AA	OME 6500 BASE RTU (PER NE)	10
009B	NTK560FT	6500 ROADM RTU (PER WSS)	14
009C	S74-LIC-NTK560JM	6500-D7/S8 BASE LICENSE	2
009D	S74-LIC-NTK560JN	6500-D14/S14 BASE LICENSE	3
009E	S74-LIC-NTK569MM	6500 REL 12.6 SOFTWARE LICENSE	15
0010	PROJECT RELATED EQUIPMENT		
010A	174-0094-900	1U BULK FIBER MANAGEMENT TRAY	16

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010B	NTK509NZE6	SMALL OPTICAL INSTALLATION/IRM KIT	16
MCP			
0011	MCP		
011A	S16-LIC-MCPBA0400	MCP BASE SW PERPETUAL LICENSE REL 4.0	1
011B	S16-RTU-MCPBA	MCP BASE SW PERPETUAL SCALE VIRTUAL RTU	1
0012	5150 SERVICE AGGREGATION SWITCH		
012A	8N0-ADBU-07F	CIENA ADV USA FIRST 7SLOT 6500 W/BUILD & 1 DGRS & UP TO 2 SERV CARDS NO L2/DS1/DS3	2
012B	8N0-ADBU-14A	CIENA ADV USA ADDL 14SLOT 6500 W/BUILD & 1 DGRS & UP TO 5 SERV CARDS NO L2/DS1/DS3 (SAME SITE)	7
012C	8N0-ADBU-14F	CIENA ADV USA FIRST 14SLOT 6500 W/BUILD & 1 DGRS & UP TO 5 SERV CARDS NO L2/DS1/DS3	6
012D	8N0-ADBU-ACG	CIENA ADV USA GRNFLD 6500 W/BUILD ADDL 1 DGRS OR UP TO 4 SERV CARDS NO L2/DS1/DS3 (SAME SITE)	20
012E	8N0-ADBU-ACI	CIENA ADV USA INSERV 6500 W/BUILD ADDL 1 DGRS OR UP TO 4 SERV CARDS NO L2/DS1/DS3 (SEPARATE TRIP)	3
012F	8N0-ULFT-BER1	UPLIFT FOR BASE 15-MIN BERT (INCLUDES TEST PLANNING AND INTERNAL TEST SET-UP TO 10 CIRCUITS)	1
012G	8N0-ULFT-BER2	UPLIFT FOR INCREMENTAL 15-MIN BERT (INTERNAL TEST SET-UP TO 10 CIRCUITS)	13
012H	8N0-ULFT-ETH1	UPLIFT INCREMENTAL ETHERNET CABLING RUN - ONE (SAME SITE/NO MOB)	9
012I	8N0-ULFT-LC10	UPLIFT INCREMENTAL FIBER RUN - TEN (SAME SITE/NO MOB)	5
012J	8N0-ULFT-LC50	UPLIFT INCREMENTAL FIBER RUN - FIFTY (SAME SITE/NO MOB)	5
012K	8N0-ULFT-MP02	UPLIFT INCREMENTAL MPO CABLE - TWO (SAME SITE/NO MOB)	2
012L	8N0-ULFT-MP05	UPLIFT INCREMENTAL MPO CABLE RUN - FIVE (SAME SITE/NO MOB)	4
012M	8N0-ULFT-RMB	REMOBALIZATION KIT	2
012N	8N0-ULFT-SS2	UPLIFT FOR ON-SITE SURVEY INCREMENTAL SITE (INTER-SITE MOB)	9
012O	8N0-ULFT-TEQ2	UPLIFT FOR EXTERNAL 40G/100G TEST SET	9
0013	DESIGN AUDIT & OPER SVC POC		
013A	8NP-ULFT-CP02	CIRCUIT PROVISIONING LAYER 1 (OTN, EXCLUDING PACKET) PER CIRCUIT	2
013B	8NP-ULFT-DCN1	UPLIFT FOR INTERNAL DCN DESIGN PER SHELF	15

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0014	MAINTAIN SERVICES		
014A	80M-5150-NA1	NBD SHIPMENT MANAGED SPARES SERVICE, CN 5150 PER 48-PORT CHASSIS, 1 YEAR	6
014B	80M-5150-SM1	SMARTSUPPORT,CN 5150, PER 48-PORT CHASSIS,1 YEAR	6
014C	80M-515L-NA1	NBD SHIPMENT MANAGED SPARES SERVICE, CN 5150 PER 10 GIG MODULE, 1 YEAR	12
014D	80M-515L-SM1	SMARTSUPPORT,CN 5150,PER 10 GIG MODULE,1 YEAR	12
014E	80M-6500-NAR	1 YEAR GLOBAL 6500 NEXT BUSINESS DAY ARRIVAL MANAGED SPARES	1
014F	80M-6500-SSP-SEL	1 YEAR 6500 SELECT SUPPORT	1
014G	80M-MCPBA-SEL	1 YEAR MCP BASE SW BP SELECT SUPPORT SUBSCRIPTION	1
0015	PRODUCT TRAINING		
015A	TRN-K282-US	4 DAY 6500 PACKET-OPTICAL PLATFORM (OTN) OAM&P KIT CLASS AT CIENA US TRAINING CENTERS	1
015B	TRN-S162-CVS	ACHIEVE SERIES, PACKET-OPTICAL	2
015C	TRN-S166-CVS	ACHIEVE SERIES, PACKET	2
0016	LOGISTICS		
016A	495-0000-001	FREIGHT/HANDLING CHARGES	1

- A.5.2** Contractor shall provide only the most current models, components and accessories in new, fully operational, factory sealed condition, with all applicable licenses.
- A.5.3** The Contractor shall warrant and represents that the equipment is eligible for the manufacturer's normal [and extended] warranty and support within the United States to Authorized Users.
- A.5.4** The Contractor shall not provide previously owned, damaged, refurbished, remanufactured, counterfeit, “gray market” or substitute third party items will not be accepted.
- A.5.5** The Contractor shall transfer ownership of hardware to the Office of the Chief Technology Officer within 30 days after the of the issuance of a Purchase Order. This will ensure OCTO’s ability to obtain support from the manufacturer.
- A.5.6** The Contractor shall deliver the requirements of section A.5.1, including any accompanying material, software and licensing to the following address by within 30 days of date of Award:

Attn: Alex Ahorrio
c/o DC-NET Warehouse
2900 “V” Street, Northeast
Washington, D.C. 20018

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ATTACHMENT B
PRICE SCHEDULE

Contract Line Item No.	Part Number	Product Family Description	Total Qty	
5150				
0001	5150 SERVICE AGGREGATION SWITCH			\$100,111.98
001A	170-0100-902	AC PLUGGABLE POWER SUPPLY,CN 5150	12	\$6,476.16
001B	170-0101-902	DC PLUGGABLE POWER SUPPLY,CN 5150	12	\$5,298.60
001C	170-0202-904	SAOS ADVANCED PBB-TE APPLICATION PERPETUAL SOFTWARE LICENSE FOR CN 5150 SYSTEM	6	\$6,476.10
001D	170-0204-900	SAOS ADVANCED SECURITY PERPETUAL SOFTWARE LICENSE FOR USE WITH SAOS 6.X	6	\$279.66
001E	170-0205-904	SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR 48-PORT CN 5150 CHASSIS	6	\$6,328.98
001F	170-0205-905	SAOS ADVANCED ETHERNET PERPETUAL SOFTWARE LICENSE FOR CN 5150 (2) 10 GIG MODULE	12	\$3,238.08
001G	170-0206-904	SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR 48-PORT CN 5150 CHASSIS	6	\$4,194.78
001H	170-0206-905	SAOS ADVANCED OAM PERPETUAL SOFTWARE LICENSE FOR CN 5150 (2) 10 GIG MODULE	12	\$2,207.76
001I	170-5100-900	CN 5150,(2)10G XFP MODULE,EXT. FEATURES	12	\$32,086.20
001J	170-5150-910	5150,(48)100/1000M SFP,(2)SLOTS 10G DUAL XFP MOD,EXT. TEMP,SYNCH,(2)SLOTS AC OR DC PLUG POWER SUPPLY	6	\$33,484.50
001K	CABL-PW01NA	AC POWER CORD, IEC C13, NORTH AMERICA,TYPE B	12	\$41.16
0002	SMALL FORM FACTOR PLUGGABLE TRANSCEIVERS			\$32,468.98
002A	XCVR-A00Z85	10 GIG,MM XFP OPTIC,LC CONNECTOR,300 METERS,850NM,EXTENDED TEMPERATURE	22	\$11,525.14
002B	XCVR-A10Y31	100M/1GIG, SM SFP OPTIC, LC CONNECTOR, 10 KM, 1310 NM,EXTENDED TEMPERATURE	22	\$2,186.14
002C	XCVR-A40V55	10 GIG,SM XFP OPTIC,LC CONNECTOR,40KM,1550 NM,EXTENDED TEMPERATURE	10	\$17,236.90
002D	XCVR-B00CRJ	10/100/1000M,SFP TRANSCEIVER,RJ45 CONNECTOR,SGMII,100 METERS, RX LOS,EXTENDED TEMPERATURE	20	\$1,520.80
6500				

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0003	6500 SHELF CONFIGURATIONS			\$33,590.38
0003A	NTK503ADE5	OPTICAL SHELF (CNVD)	10	\$22,125.40
0003B	NTK503KA	6500 7-SLOT OPTICAL TYPE 2 SHELF ASSEMBLY	2	\$3,620.52
003C	NTK503SA	6500 14-SLOT PACKET-OPTICAL SHELF ASSEMBLY	3	\$7,844.46
0004	AUXILLARY SHELF EQUIPMENT			\$14,896.14
004A	NTK507MDE5	6500-14, REAR HF FAN MODULE	39	\$7,354.23
004B	NTK507PB	COOLING FAN MODULE (7-SLOT SHELF)	2	\$724.12
004C	NTK509CCE6	COVER KIT, OPTICAL SHELF, R3, LEFT LIFT-OFF HINGED	10	\$3,117.70
004D	NTK509CD	6500-14 OPTICAL SHELF FRONT COVER KIT W/ EXTENDED DEPTH FOR USE WITH NTK503SA	3	\$1,229.46
004E	NTK509CR	SHELF FRONT COVER W/EXTENDED DEPTH (7-SLOT SHELF)	2	\$427.44
004F	NTK509MCE6	SHELF BRKT KIT, 465 C-C, 127 S/B, EIA HP, O-RE SHLF	10	\$352
004G	NTTC01FK	CBL PWR 8AWG 150C 5.0M 2W2C LEFT ROUTED TO OPEN BLACK(L+)/RED(L-)	2	\$366.62
004H	NTTC01FL	CBL PWR 8AWG 150C 5.0M 2W2C RIGHT ROUTED TO OPEN BLACK(L+)/RED(L-)	2	\$366.62
004I	NTZF99XC	7-SLOT BRACKET KIT (NTK503KA)	2	\$543.08
004J	NTZF99XF	14-SLOT BRACKET KIT (NTK503SA)	3	\$414.87
0005	COMMON EQUIPMENT			\$41,134.72
005A	NTK505CAE5	POWER INPUT CARD 60A (BREAKERED)	8	\$1,729.76
005B	NTK505FBE5	MAINTENANCE INTERFACE CARD	13	\$1,372.93
005C	NTK505MBE5	ACCESS PANEL, CNVD (SONET)	13	\$3,824.21
005D	NTK505QA	POWER INPUT CARD (BREAKERED) 2-WIRE D-SUB, MAX 50A	4	\$854.88
005E	NTK505YAE5	INTERFACE FILLER PACK	87	\$3,282.51
005F	NTZF03MM	6500 REL 12.6 NTK555CAE5 SHELF PROCESSOR (SP-2 FOR 6500-7/14) KIT	3	\$3,922.23
005G	NTZF06MM	6500 REL 12.6 NTK555FAE5 SHELF PROCESSOR (SP-2 DUAL CPU FOR 6500-7/14/32) KIT	10	\$20,114
005H	NTZF15MM	6500 REL 12.6 NTK555NB SHELF PROCESSOR (SPAP-2 W/2XOSC FOR 6500-2/7 TYPE 2) KIT	3	\$6,034.20
0006	BROADBAND INTERFACES			\$116,493.35
006A	160-9103-900	SFP PLUS, OPTICAL PLUG-IN, OC-192/OTU2, 1310NM, SINGLEMODE, -5 TO 85C	95	\$34,221.85
006B	160-9116-900	MULTIRATE 850NM, MMF SFP+	170	\$11,752.10
006C	160-9401-900	100GBASE-LR4, 4X25G, WDM, SMF, 1310NM, 10KM QSFP28	17	\$59,250.95

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006D	160-9701-900	16GFC/32GFC, SMF, 1310NM, 10KM SFP28	17	\$11,268.45
0007	PHOTONIC COMPONENTS			\$184,203.04
007A	NTK553LB	WAVELENGTH SELECTIVE SWITCH (WSS) FLEX C-BAND W/OPM 9X1 CIRCUIT PACK	16	\$168,232.80
007B	NTK592NGE5	TRANSCEIVER,CWDM,DWDM- OSC,38DB,1511NM,3.3V,0TO70C,SFP,20PINS,L C,ENHANCED MSA	22	\$15,970.24
0008	PASSIVE OPTICAL SYSTEM			\$771.48
008A	B-967-0001-002	CN 2150-KIT-19 - CHASSIS, 19 IN. BRACKETS, FIBER BAR AND COVER	4	\$771.48
0009	SOFTWARE / SOFTWARE RTUs			\$8,112.58
009A	NTK560AA	OME 6500 BASE RTU (PER NE)	10	\$3,362.70
009B	NTK560FT	6500 ROADM RTU (PER WSS)	14	\$2,928.38
009C	S74-LIC- NTK560JM	6500-D7/S8 BASE LICENSE	2	\$585.68
009D	S74-LIC- NTK560JN	6500-D14/S14 BASE LICENSE	3	\$1,230.87
009E	S74-LIC- NTK569MM	6500 REL 12.6 SOFTWARE LICENSE	15	\$4.95
0010	PROJECT RELATED EQUIPMENT			\$8,206.56
010A	174-0094-900	1U BULK FIBER MANAGEMENT TRAY	16	\$6,436.48
010B	NTK509NZE6	SMALL OPTICAL INSTALLATION/IRM KIT	16	\$1,770.08
MCP				
0011	MCP			\$15,831.15
011A	S16-LIC- MCPBA0400	MCP BASE SW PERPETUAL LICENSE REL 4.0	1	\$1.09
011B	S16-RTU- MCPBA	MCP BASE SW PERPETUAL SCALE VIRTUAL RTU	1	\$15,830.06
SERVICES				
0012	DEPLOYMENT SERVICES POC			\$199,794.44
012A	8N0-ADBU- 07F	CIENA ADV USA FIRST 7SLOT 6500 W/BUILD & 1 DGRS & UP TO 2 SERV CARDS NO L2/DS1/DS3	2	\$11,035.56
012B	8N0-ADBU- 14A	CIENA ADV USA ADDL 14SLOT 6500 W/BUILD & 1 DGRS & UP TO 5 SERV CARDS NO L2/DS1/DS3 (SAME SITE)	7	\$35,167.30
012C	8N0-ADBU- 14F	CIENA ADV USA FIRST 14SLOT 6500 W/BUILD & 1 DGRS & UP TO 5 SERV CARDS NO L2/DS1/DS3	6	\$38,287.62
012D	8N0-ADBU- ACG	CIENA ADV USA GRNFLD 6500 W/BUILD ADDL 1 DGRS OR UP TO 4 SERV CARDS NO L2/DS1/DS3 (SAME SITE)	20	\$18,425.40
012E	8N0-ADBU- ACI	CIENA ADV USA INSERT 6500 W/BUILD ADDL 1 DGRS OR UP TO 4 SERV CARDS NO L2/DS1/DS3 (SEPARATE TRIP)	3	\$12,598.98

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012F	8N0-ULFT-BER1	UPLIFT FOR BASE 15-MIN BERT (INCLUDES TEST PLANNING AND INTERNAL TEST SET-UP TO 10 CIRCUITS)	1	\$1,393.20
012G	8N0-ULFT-BER2	UPLIFT FOR INCREMENTAL 15-MIN BERT (INTERNAL TEST SET-UP TO 10 CIRCUITS)	13	\$7,025.72
012H	8N0-ULFT-ETH1	UPLIFT INCREMENTAL ETHERNET CABLING RUN - ONE (SAME SITE/NO MOB)	9	\$977.67
012I	8N0-ULFT-LC10	UPLIFT INCREMENTAL FIBER RUN - TEN (SAME SITE/NO MOB)	5	\$3,779.45
012J	8N0-ULFT-LC50	UPLIFT INCREMENTAL FIBER RUN - FIFTY (SAME SITE/NO MOB)	5	\$16,892.15
012K	8N0-ULFT-MP02	UPLIFT INCREMENTAL MPO CABLE - TWO (SAME SITE/NO MOB)	2	\$1,649.38
012L	8N0-ULFT-MP05	UPLIFT INCREMENTAL MPO CABLE RUN - FIVE (SAME SITE/NO MOB)	4	\$7,676.64
012M	8N0-ULFT-RMB	REMOBALIZATION KIT	2	\$6,373.02
012N	8N0-ULFT-SS2	UPLIFT FOR ON-SITE SURVEY INCREMENTAL SITE (INTER-SITE MOB)	9	\$8,945.73
012O	8N0-ULFT-TEQ2	UPLIFT FOR EXTERNAL 40G/100G TEST SET	9	\$29,566.62
0013	DESIGN AUDIT & OPER SVC POC			\$4,469.22
013A	8NP-ULFT-CP02	CIRCUIT PROVISIONING LAYER 1 (OTN, EXCLUDING PACKET) PER CIRCUIT	2	\$382.02
013B	8NP-ULFT-DCN1	UPLIFT FOR INTERNAL DCN DESIGN PER SHELF	15	\$4,087.20
0014	MAINTAIN SERVICES			\$28,665.35
014A	80M-5150-NA1	NBD SHIPMENT MANAGED SPARES SERVICE, CN 5150 PER 48-PORT CHASSIS, 1 YEAR	6	\$611.10
014B	80M-5150-SM1	SMARTSUPPORT,CN 5150, PER 48-PORT CHASSIS,1 YEAR	6	\$2,843.52
014C	80M-515L-NA1	NBD SHIPMENT MANAGED SPARES SERVICE, CN 5150 PER 10 GIG MODULE, 1 YEAR	12	\$489
014D	80M-515L-SM1	SMARTSUPPORT,CN 5150,PER 10 GIG MODULE,1 YEAR	12	\$3,258.96
014E	80M-6500-NAR	1 YEAR GLOBAL 6500 NEXT BUSINESS DAY ARRIVAL MANAGED SPARES	1	\$10,053.24
014F	80M-6500-SSP-SEL	1 YEAR 6500 SELECT SUPPORT	1	\$7,446.45
014G	80M-MCPBA-SEL	1 YEAR MCP BASE SW BP SELECT SUPPORT SUBSCRIPTION	1	\$3,963.08
0015	PRODUCT TRAINING			\$29,032.84

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015A	TRN-K282-US	4 DAY 6500 PACKET-OPTICAL PLATFORM (OTN) OAM&P KIT CLASS AT CIENA US TRAINING CENTERS	1	\$21,183
015B	TRN-S162-CVS	ACHIEVE SERIES, PACKET-OPTICAL	2	\$3,924.92
015C	TRN-S166-CVS	ACHIEVE SERIES, PACKET	2	\$3,924.92
0016	LOGISTICS			\$8,213.38
016A	495-0000-001	FREIGHT/HANDLING CHARGES	1	\$8,213.38
Total Price				\$826,036.75