



|  |   |  |  |  |            |  |                |
|--|---|--|--|--|------------|--|----------------|
| <b>GOVERNMENT OF THE DISTRICT OF COLUMBIA</b><br><b>TASK ORDER/DELIVERY ORDER FOR SERVICES</b><br><b>OFFEROR TO COMPLETE BLOCKS 18 &amp; 29</b>  |   |  |  | 1. REQUISITION NUMBER<br><b>RQ961892</b>   |            | PAGE<br><b>1 of 4</b>  |                |
| 2. TASK ORDER AGREEMENT NO.<br><b>CW53815</b>  |   | 3. Award/Effective Date<br><b>See 30C below</b>  |  | 4. CONTRACT NUMBER<br><b>CW30750</b>   |            | 5. SOLICITATION NUMBER<br><b>Doc328844</b>   |                |
| 6. SOLICITATION ISSUE DATE<br><b>7/26/17</b>   |   | 7. FOR SOLICITATION INFORMATION CONTACT:<br><a href="mailto:Tiffany.Champion@dc.gov">Tiffany.Champion@dc.gov</a>                                 |  | 8. OFFER DUE DATE:<br><b>7/28/17</b>   |            | 9. ISSUED BY<br><b>OFFICE OF CONTRACTING AND PROCUREMENT<br/>441 4<sup>th</sup> Street, NW, Suite 700S<br/>Washington, DC 20001</b>  |                |
| 10. THIS ACQUISITION IS<br><input type="checkbox"/> UNRESTRICTED<br><input type="checkbox"/> SET ASIDE %FOR<br><input type="checkbox"/> SMALL BUSINESS<br><input type="checkbox"/> SMALL DISADV. BUS.<br><input type="checkbox"/> GSA<br><input type="checkbox"/> DCSS<br><input checked="" type="checkbox"/> Cooperative Agreement                                      |   | 11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED<br><input type="checkbox"/> N/A<br><input type="checkbox"/> 13. RESERVED                 |  | 12. PAYMENT DISCOUNT TERMS<br><b>Net 30 days</b>   |            | 14. METHOD OF SOLICITATION<br><input checked="" type="checkbox"/> RFTOP<br><input type="checkbox"/> 2-STEP<br><input type="checkbox"/> IFB<br><input type="checkbox"/> RFP |                |
| 5. CONTRACTOR / OFFEROR<br><b>Knight Point Systems, LLC<br/>1775 Wiehle Ave, Suite 101<br/>Reston, VA 20190</b>  |   | 16. PAYMENT WILL BE MADE BY<br><b>DC Office of the OCTO (Accts Payable)<br/>200 I Street SE<br/>Washington, DC 20003<br/>Phone: 202.727.2277</b> |  |  |            |  |                |
| 15A DUNS CODE  |   | 15B TAX ID NO.   |  |  |            |  |                |
| 17. DELIVER TO<br><b>DELIVERY ATTN: JOE BLANFORD<br/>DC OFFICE OCTO (DC-NET)<br/>2900 V ST NE<br/>WASHINGTON, DC 20018<br/>PHONE: 202.715.3810</b>   |   | 18. ADMINISTERED BY:<br><b>OFFICE OF CONTRACTING AND PROCUREMENT<br/>441 4<sup>th</sup> Street, NW, Suite 700S<br/>Washington, DC 20001</b>      |  |  |            |  |                |
| 18A. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER<br><input type="checkbox"/>  |   |  |  | 18B. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 16 UNLESS BLOCK BELOW IS CHECKED<br><input type="checkbox"/> SEE ADDENDUM                             |            |  |                |
| 19<br>ITEM NO.   | 20<br>SCHEDULE OF SUPPLIES/SERVICES                                 |  |  | 21<br>QUANTITY   | 22<br>UNIT | 23<br>UNIT PRICE   | 24<br>AMOUNT   |
| 0001-0060  | Cisco Equipment and Licenses<br>(SEE PRICE SCHEDULE – ATTACHMENT B) |  |  | 1  | lot        | \$1,593,992.28   | \$1,593,992.28 |
| 25. ACCOUNTING AND APPROPRIATION DATA<br>ENCUMBRANCE CODE:   |   |  |  | 26. TOTAL AWARD (FOR GOVT. USE ONLY)<br><b>\$1,593,992.28</b>  |            |  |                |
| 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 CONTRACT IDENTIFIED IN BLOCK 4. |   |  |  | 28. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE INTO THIS TASK ORDER IN THE FOLLOWING PRIORITY: (1) SEE SECTION A.                         |            |  |                |
| 29A. SIGNATURE OF OFFEROR /CONTRACTOR<br>   |   |  |  | 30A. DISTRICT OF COLUMBIA (SIGNATURE OF CONTRACTING OFFICER)<br> |            |  |                |
| 29B. NAME AND TITLE OF SIGNER (TYPE OR PRINT)<br><b>Teri Lynn Ostroviak, Director of Contracts</b>   |   | 29C. DATE SIGNED<br><b>7/31/2017</b>   |  | 30B. NAME OF CONTRACTING OFFICER (TYPE OR PRINT)<br><b>Chris Yi<br/>Contracting Officer</b>  |            | 30C. DATE SIGNED<br><b>7-31-17</b>   |                |

## **1. SERVICES REQUIRED**

The Office of Contracting and Procurement, on behalf of Office of the Chief Technology Officer (OCTO) DC-Net, seeks a vendor to provide Cisco switches and wireless controllers for expanding network, telephone, and wireless coverage; also, to provide Cisco optics, switches, and router blades to support the network core upgrade; and additional Cisco Unity Connection licenses to complete the voice-mail migration from legacy platforms to one unified platform.

## **2. PRICE SCHEDULE**

See attachment B

## **3. TERM OF CONTRACT**

The Period of Performance shall be one year from date of award specified on the cover page of this contract.

## **4. 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  
Contracting Officer  
IT Commodity Group  
Office of Contracting and Procurement  
441 4<sup>th</sup> Street, NW, Suite 700S  
Washington, D.C. 20001  
202.724.5069

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

Anil Sharma  
Office of the Chief Technology Officer  
200 I Street SE  
Washington DC 20003  
Phone: 202.715.3805  
Email: Anil.Sharma@dc.gov

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.

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.

## **6. ORDERING**

Products and services to be furnished under this contract will be ordered by the Contracts Administrator specified in Section 5 above. The products shall be delivered within 10 days from the date of award.

## **7. COMPENSATION AND 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.

The District will pay the Contractor on or before the 30<sup>th</sup> 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 this contract. Invoices shall be prepared in duplicate and submitted to the Office of the Chief Technology Officer, Accounts Payable, with a concurrent copy to the Contracts Administrator (CA) specified in Section 5 above. The address of the Office of Office of Chief Financial officer is:

Office of the Chief Technology Officer  
200 I Street, SE  
Washington, DC 20003

To constitute a proper invoice, the Contractor shall submit the following information:

- a) Contractor's name and invoice date (Contractors are encouraged to date invoices as close to the date of mailing or transmittal as possible.);
- b) Task Order Agreement Number and Purchase Order Number. Assignment of an invoice number by the contractor is also recommended;
- c) Description, price, quantity, and dates of Delivery;
- d) Other supporting documentation or information, as required by the Contracting Officer;

- e) Name, title, telephone number and complete mailing address of the responsible official to whom payment is to be sent;
- f) Name, title, phone number of person preparing the invoice;
- g) Authorized signature.

## **9. INCORPORATED DOCUMENTS**

Contractor shall perform under this task order pursuant to the terms of the following documents that are hereby incorporated by reference and made a part of this contract, which in the event of a conflict shall be resolved by giving precedence in the order of priority listed below:

- (1) Statement of work, (Attachment A)
- (2) Price Schedule, (Attachment B)
- (3) Contractor's Cisco Reseller Agreement, (Attachment C)

## ATTACHMENT A – Statement of Work

### GOVERNMENT OF THE DISTRICT OF COLUMBIA OFFICE OF THE CHIEF TECHNOLOGY OFFICER (OCTO)

#### Cisco Equipment and Licenses

#### A.1 SCOPE

The Office of Contracting and Procurement, on behalf of Office of the Chief Technology Officer (OCTO) DC-Net, seeks a vendor to provide Cisco switches and wireless controllers for expanding network, telephone, and wireless coverage at the 655 15th St NW, 4th floor F-Street side; also, to provide Cisco optics, switches, and router blades to support the network core upgrade; and additional Cisco Unity Connection licenses to complete the voice-mail migration from legacy platforms to one unified platform.

##### A.1.1 APPLICABLE DOCUMENTS

N/A

##### A.1.2 Definitions

N/A

#### A.2 BACKGROUND

DC-Net is the provider of voice and data services for the District of Columbia and has been requested to expand voice, data, and wireless coverage service for the OAG office being located at 655 15<sup>th</sup> Street NW, 4<sup>th</sup> floor F Street side. DC-Net is also currently in the process of upgrading the overall network core for the District's fiber network to provide greater bandwidth and lower latency. The remaining voice users on the legacy Avaya voice-mail platforms are being transitioned to the Cisco Unity Connection platform, additional user-licenses are required. The Cisco equipment and licenses listed below are needed to support the service requirements and improvements currently under way.

#### A.3 REQUIREMENT

The contractor shall provide the following:

| Item No. | QTY | Part Number        | Description  |
|----------|-----|--------------------|--|
| 1        | 2   | WS-C4510RE-S8+96V+ | Cisco 4510R+E Chassis, Two WS-X4748-RJ45V+E, Sup8-E              |
| 2        | 2   | CAB-CON-C4K-RJ45   | Cisco Console Cable 6ft with RJ-45-to-RJ-45                      |
| 3        | 2   | S45EU-S8-37E       | Cisco CAT4500e SUP8e Universal Image                             |
| 4        | 2   | C4500E-IPB         | Cisco Paper IP Base License                                      |
| 5        | 2   | C4510RE-S8-MGIG    | Cisco MGIG Upgrade for 10 slot chassis bundle                    |
| 6        | 2   | WS-X45-SUP8-E      | Cisco Catalyst 4500 E-Series Supervisor 8-E                      |
| 7        | 4   | WS-X4748-12X48U+E  | Cisco Catalyst 4500E 48-Port UPOE w/12p mGig and 36p 10/100/1000 |
| 8        | 2   | WS-X45-SUP8-E/2    | Cisco Catalyst 4500 E-Series Redundant Supervisor 8-E            |
| 9        | 10  | WS-X4748-12X48U+E  | Cisco Catalyst 4500E 48-Port UPOE w/12p mGig and 36p 10/100/1000 |

|    |      |                    |  |
|----|------|--------------------|--|
| 10 | 2    | WS-X4712-SFP+E     | Cisco Catalyst 4500 E-Series 12-Port 10GbE (SFP+)                |
| 11 | 2    | PWR-C45-1400DC-P   | Cisco Catalyst 4500 1400W DC Power Supply w/Int PEM              |
| 12 | 2    | PWR-C45-1400DC-P/2 | Cisco Catalyst 4500 1400W DC Power Supply Redundant w/Int PEM    |
| 13 | 20   | SFP-10G-SR=        | Cisco 10GBASE-SR SFP Module                                      |
| 14 | 3    | AIR-CT8540-K9      | Cisco 8540 Wireless Controller with rack mounting kit            |
| 15 | 6    | CAB-9K12A-NA       | Cisco Power Cord   |
| 16 | 3    | AIR-CT8540-SW-8.1  | Cisco 8540 Wireless Controller SW Rel. 8.1                       |
| 17 | 6    | AIR-PSU2V2-1200W   | Cisco 1200W V2 AC Power Supply for 8540 Controller               |
| 18 | 3    | AIR-BZL-C240M4     | Cisco 8540 Wireless Controller Security6 Bezel                   |
| 19 | 12   | AIR-MR-1X162RU-A   | Cisco 16GB DDR4-2133-MHz RDIMM-/PC4-17000/dual rank              |
| 20 | 3    | AIR-CT6880-NIC-K9  | Cisco PCIe Network Interface 40G                                 |
| 21 | 3    | AIR-PCI-1A-240M4   | Cisco Right PCIe Riser Board (Riser 1) for C240 M4               |
| 22 | 3    | AIR-SD-32G-S       | Cisco 32GB SD Card for UCS servers                               |
| 23 | 3    | AIR-TPM2-001       | Cisco Trusted Platform Module 1.2 for UCS (SPI-based)            |
| 24 | 3    | AIR-MRAID12G-1GB   | Cisco 12Gbps SAS 1GB FBWC Cache module (Raid 0/1/5/6)            |
| 25 | 3    | AIR-CPU-E52680D    | Cisco 2.50 GHz E5-2680 v3/120W 12C/30MB Cache/DDR4               |
| 26 | 3    | AIR-MRAID12G       | Cisco 12G SAS Modular Raid Controller                            |
| 27 | 6    | AIR-SD240GBKS4-EV  | Cisco 240GB 2.5 inch Enterprise Value 6G SATA SSD                |
| 28 | 1    | LIC-CT8540-UPG     | Cisco Top Level SKU for 8540 AP Adder Licenses                   |
| 29 | 1    | CON-ECMU-LICCT854  | Cisco SWSS UPGRADES Top Level SKU for 85                         |
| 30 | 1000 | LIC-CT8540-1A      | Cisco 8540 Wireless Controller 1 AP Adder License                |
| 31 | 1000 | CON-ECMU-LICCT85C  | Cisco SWSS UPGRADES Cisco 8540 Wireless                          |
| 32 | 1000 | LIC-CT8540-DTLS-K9 | Cisco 8540 Wireless Controller DTLS License                      |
| 33 | 1    | AIR-CT2504-RMNT=   | Cisco 2504 Wireless Controller Rack Mount Bracket                |
| 34 | 50   | AIR-PWRINJ6=       | Cisco Power Injector (802.3at) for Aironet Access Points         |
| 35 | 50   | AIR-PWR-CORD-NA    | Cisco AIR Line Cord North America                                |
| 36 | 488  | SFP-10G-SR=        | Cisco 10GBASE-SR SFP Module                                      |
| 37 | 499  | SFP-10G-LR=        | Cisco 10GBASE-LR SFP Module                                      |
| 38 | 10   | QSFP-100G-LR4-S=   | Cisco 100GBASE LR4 QSFP Transceiver, LC, 10km over SMF           |
| 39 | 26   | CPAK-100G-LR4=     | Cisco CPAK-100G-LR4 Transceiver module                           |
| 40 | 26   | CVR-CFP2CPAK4=     | Cisco CFP2 to CPAK adapter for 4x25G interface                   |
| 41 | 40   | WS-C3850-48XS-F-E  | Cisco Catalyst 3850 48 Port 10G Fiber Switch IP Services         |
| 42 | 40   | S3850UK9-37E       | Cisco CAT3850 Universal k9 image                                 |
| 43 | 40   | PWR-C3-750WDC-F    | Cisco 750W DC Config 3 Power Supply back to front cooling        |
| 44 | 40   | PWR-C3-750WDC-F/2  | Cisco 750W DC Config 3 Redundant Power Supply back to front cool |
| 45 | 200  | FAN-T3-F           | Cisco Catalyst 3850 Type 3 back to front cooling Fan             |
| 46 | 4    | A9K-MPA-2X40GE=    | Cisco ASR 9000 2-port 40GE Modular Port Adapter                  |
| 47 | 4    | A9K-MPA-8X10GE=    | Cisco ASR 9000 8-port 10GE Modular Port Adapter                  |
| 48 | 1    | A9K-MPA-2X100GE=   | Cisco ASR 9000 2-port 100GE Modular Port Adapter                 |
| 49 | 1    | N77-M312CQ-26L=    | Cisco Nexus 7700 M3-Series 12 Port 100GE                         |
| 50 | 1    | N77-M348XP-23L=    | Cisco Nexus 7700 M3-Series 48 Port 10GE                          |
| 51 | 19   | QSFP-100G-LR4-S=   | Cisco 100GBASE LR4 QSFP Transceiver, LC, 10km over SMF           |
| 52 | 14   | SFP-10G-ER=        | Cisco 10GBASE-ER SFP Module                                      |
| 53 | 280  | GLC-SX-MMD=        | Cisco 1000BASE-SX SFP transceiver mod MMF 850nm DOM              |
| 54 | 1    | R-UNITYCN11-K9     | Cisco Unity Connection 11.x Software                             |
| 55 | 1    | CON-ECMU-RUNITYCK  | Cisco SWSS UPGRADES Unity Connection                             |

|    |       |                    |   |
|----|-------|--------------------|---|
| 56 | 10000 | UNITYCN11-STD-USR  | Cisco One Unity Connection 11.x User - All user     |
| 57 | 10000 | CON-ECMU-UNITCN05  | Cisco SWSS UPGRADES One Unity                       |
| 58 | 2     | UCXN-11X-SC-PORTS  | Cisco Unity Connection 11.x SpeechConnect           |
| 59 | 1     | UNITYCN11-PAK      | Cisco Unity Connection 11.x PAK                     |
| 60 | 1     | LIC-SPECHVIEW-DEMO | Cisco SpeechView Unity Connection Demo for 50 users |

#### **A.4 DELIVERABLES**

The Contractor shall deliver all items listed under "Attachment B" (Price Schedule) no later than 20 days after contract award.

| <b>Item No.</b> | <b>Deliverable</b>         | <b>Quantity</b> | <b>Format/Method of Delivery</b> | <b>Due Date</b> |
|-----------------|----------------------------|-----------------|----------------------------------|-----------------|
| 0001            | All requirements under A.3 | As Specified    | Physical Device(s)               | 20 days ARO     |

#### **A.5 CONTRACTING OFFICER (CO)**

Contracts will be entered into and signed on behalf of the District only by contracting officers. The contact information for the Contracting Officer is:

Chris Yi  
Office of Contracting and Procurement  
200 I Street, SE Fifth Floor  
Washington, DC 20003  
Telephone: 202.724.5069  
E-mail: Chris.Yi@dc.gov

##### **A.5.1 AUTHORIZED CHANGES BY THE CONTRACTING OFFICER**

**A.5.2** The CO is the only person authorized to approve changes in any of the requirements of this contract.

**A.5.3** 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.

**A.5.4** 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 will be made in the contract price to cover any cost increase incurred as a result thereof.

#### **A.6 CONTRACT ADMINISTRATOR (CA)**

The CA is responsible for general administration of the contract and advising the CO as the Contractor's compliance or noncompliance with the contract. The CA has the responsibility of ensuring the work conforms to the requirements of the contract and such other responsibilities and authorities as may be specified in the contract. These include:

**A.6.1** Keeping the CO fully informed of any technical or contractual difficulties encountered during the performance period and advising the CO of any potential problem areas under the contract;

**A.6.2** Coordinating site entry for Contractor personnel, if applicable;

- A.6.3** Reviewing invoices for completed work and recommending approval by the CO if the Contractor's prices and costs are consistent with the contractual amounts and progress is satisfactory and commensurate with the rate of expenditure;
- A.6.4** Reviewing and approving invoices for deliverables to ensure receipt of goods and services. This includes the timely processing of invoices and vouchers in accordance with the District's payments provisions; and
- A.6.5** Maintaining a file that includes all contract correspondence, modifications, records of inspections (site, data, equipment) and invoice or vouchers.
- A.6.6** The address and telephone number of the CA is:

Anil Sharma  
Office of the Chief Technology Officer  
200 I Street SE  
Washington, DC 20003  
Phone: 202.715.3805  
Email: Anil.Sharma@dc.gov

- A.6.7** The CA shall NOT have the authority to:

1. Award, agree to, or sign any contract, delivery order or task order. Only the CO shall make contractual agreements, commitments or modifications;
2. Grant deviations from or waive any of the terms and conditions of the contract;
3. Increase the dollar limit of the contract or authorize work beyond the dollar limit of the contract,
4. Authorize the expenditure of funds by the Contractor;
5. Change the period of performance; or
6. Authorize the use of District property, except as specified under the contract.

- A.6.8** The Contractor will be fully responsible for any changes not authorized in advance, in writing, by the Contracting Officer,

**A.7 PURCHASES OF IT HARDWARE AND EQUIPMENT**

The Contractor shall provide only the most current models, components and accessories in new, fully operational, factory sealed condition, with all applicable licenses. The Contractor warrants and represents that the equipment is eligible for the manufacturer's normal and extended warranty and support within the United States to Authorized Users. Previously owned, damaged, refurbished, remanufactured, counterfeit, "gray market" or substitute third party items will not be accepted. The bidder shall provide evidence of its authorized reseller agreement or certification with its bid.

## ATTACHMENT B – PRICE SCHEDULE

**B.1** The Office of Contracting and Procurement, on behalf of Office of the Chief Technology Officer (OCTO) DC-Net, seeks a vendor to provide Cisco switches and wireless controllers for expanding network, telephone, and wireless coverage at the 655 15th St NW, 4th floor F-Street side; also, to provide Cisco optics, switches, and router blades to support the network core upgrade; and additional Cisco Unity Connection licenses to complete the voice-mail migration from legacy platforms to one unified platform.

**B.2** The District contemplates award of a single firm fixed price contract.

**B.3** Price Schedule

Base Period – One year from date of award

| CLIN No. | Part Number        | Description  | QTY | Unit Price  | Total Price |
|----------|--------------------|--|-----|-------------|-------------|
| 0001     | WS-C4510RE-S8+96V+ | Cisco 4510R+E Chassis, Two WS-X4748-RJ45V+E, Sup8-E              | 2   | \$9,900.00  | \$19,800.00 |
| 0002     | CAB-CON-C4K-RJ45   | Cisco Console Cable 6ft with RJ-45-to-RJ-45                      | 2   | \$-         | \$-         |
| 0003     | S45EU-S8-37E       | Cisco CAT4500e SUP8e Universal Image                             | 2   | \$-         | \$-         |
| 0004     | C4500E-IPB         | Cisco Paper IP Base License                                      | 2   | \$-         | \$-         |
| 0005     | C4510RE-S8-MGIG    | Cisco MGIG Upgrade for 10 slot chassis bundle                    | 2   | \$1,500.00  | \$3,000.00  |
| 0006     | WS-X45-SUP8-E      | Cisco Catalyst 4500 E-Series Supervisor 8-E                      | 2   | \$-         | \$-         |
| 0007     | WS-X4748-12X48U+E  | Cisco Catalyst 4500E 48-Port UPOE w/12p mGig and 36p 10/100/1000 | 4   | \$-         | \$-         |
| 0008     | WS-X45-SUP8-E/2    | Cisco Catalyst 4500 E-Series Redundant Supervisor 8-E            | 2   | \$5,998.50  | \$11,997.00 |
| 0009     | WS-X4748-12X48U+E  | Cisco Catalyst 4500E 48-Port UPOE w/12p mGig and 36p 10/100/1000 | 10  | \$2,998.50  | \$29,985.00 |
| 0010     | WS-X4712-SFP+E     | Cisco Catalyst 4500 E-Series 12-Port 10GbE (SFP+)                | 2   | \$8,098.50  | \$16,197.00 |
| 0011     | PWR-C45-1400DC-P   | Cisco Catalyst 4500 1400W DC Power Supply w/Int PEM              | 2   | \$523.50    | \$1,047.00  |
| 0012     | PWR-C45-1400DC-P/2 | Cisco Catalyst 4500 1400W DC Power Supply Redundant w/Int PEM    | 2   | \$523.50    | \$1,047.00  |
| 0013     | SFP-10G-SR=        | Cisco 10GBASE-SR SFP Module                                      | 20  | \$298.50    | \$5,970.00  |
| 0014     | AIR-CT8540-K9      | Cisco 8540 Wireless Controller with rack mounting kit            | 3   | \$12,000.00 | \$36,000.00 |
| 0015     | CAB-9K12A-NA       | Cisco Power Cord   | 6   | \$-         | \$-         |
| 0016     | AIR-CT8540-SW-8.1  | Cisco 8540 Wireless Controller SW Rel. 8.1                       | 3   | \$-         | \$-         |
| 0017     | AIR-PSU2V2-1200W   | Cisco 1200W V2 AC Power Supply for 8540 Controller               | 6   | \$-         | \$-         |
| 0018     | AIR-BZL-C240M4     | Cisco 8540 Wireless Controller Security6 Bezel                   | 3   | \$-         | \$-         |
| 0019     | AIR-MR-1X162RU-A   | Cisco 16GB DDR4-2133-MHz RDIMM-/PC4-17000/dual rank              | 12  | \$-         | \$-         |
| 0020     | AIR-CT6880-NIC-K9  | Cisco PCIe Network Interface 40G                                 | 3   | \$-         | \$-         |
| 0021     | AIR-PCI-1A-240M4   | Cisco Right PCIe Riser Board (Riser 1) for C240 M4               | 3   | \$-         | \$-         |
| 0022     | AIR-SD-32G-S       | Cisco 32GB SD Card for UCS servers                               | 3   | \$-         | \$-         |
| 0023     | AIR-TPM2-001       | Cisco Trusted Platform Module 1.2 for UCS (SPI-based)            | 3   | \$-         | \$-         |
| 0024     | AIR-MRAID12G-1GB   | Cisco 12Gbps SAS 1GB FBWC Cache module (Raid                     | 3   | \$-         | \$-         |

|                 |                    |  |       |             |                |
|-----------------|--------------------|--|-------|-------------|----------------|
|                 |                    | 0/1/5/6)   |       |             |                |
| 0025            | AIR-CPU-E52680D    | Cisco 2.50 GHz E5-2680 v3/120W 12C/30MB Cache/DDR4               | 3     | \$-         | \$-            |
| 0026            | AIR-MRAID12G       | Cisco 12G SAS Modular Raid Controller                            | 3     | \$-         | \$-            |
| 0027            | AIR-SD240GBK54-EV  | Cisco 240GB 2.5 inch Enterprise Value 6G SATA SSD                | 6     | \$-         | \$-            |
| 0028            | LIC-CT8540-UPG     | Cisco Top Level SKU for 8540 AP Adder Licenses                   | 1     | \$-         | \$-            |
| 0029            | CON-ECMU-LICCT854  | Cisco SWSS UPGRADES Top Level SKU for 85                         | 1     | \$-         | \$-            |
| 0030            | LIC-CT8540-1A      | Cisco 8540 Wireless Controller 1 AP Adder License                | 1000  | \$60.00     | \$60,000.00    |
| 0031            | CON-ECMU-LICCT85C  | Cisco SWSS UPGRADES Cisco 8540 Wireless                          | 1000  | \$16.90     | \$16,900.00    |
| 0032            | LIC-CT8540-DTLS-K9 | Cisco 8540 Wireless Controller DTLS License                      | 1000  | \$-         | \$-            |
| 0033            | AIR-CT2504-RMNT=   | Cisco 2504 Wireless Controller Rack Mount Bracket                | 1     | \$28.50     | \$28.50        |
| 0034            | AIR-PWRINJ6=       | Cisco Power Injector (802.3at) for Aironet Access Points         | 50    | \$41.70     | \$2,085.00     |
| 0035            | AIR-PWR-CORD-NA    | Cisco AIR Line Cord North America                                | 50    | \$-         | \$-            |
| 0036            | SFP-10G-SR=        | Cisco 10GBASE-SR SFP Module                                      | 488   | \$149.25    | \$72,834.00    |
| 0037            | SFP-10G-LR=        | Cisco 10GBASE-LR SFP Module                                      | 499   | \$595.26    | \$297,034.74   |
| 0038            | QSFP-100G-LR4-S=   | Cisco 100GBASE LR4 QSFP Transceiver, LC, 10km over SMF           | 10    | \$4,469.26  | \$44,692.60    |
| 0039            | CPAK-100G-LR4=     | Cisco CPAK-100G-LR4 Transceiver module                           | 26    | \$5,960.00  | \$154,960.00   |
| 0040            | CVR-CFP2CPAK4=     | Cisco CFP2 to CPAK adapter for 4x25G interface                   | 26    | \$223.50    | \$5,811.00     |
| 0041            | WS-C3850-48XS-F-E  | Cisco Catalyst 3850 48 Port 10G Fiber Switch IP Services         | 40    | \$5,071.50  | \$202,860.00   |
| 0042            | S3850UK9-37E       | Cisco CAT3850 Universal k9 image                                 | 40    | \$-         | \$-            |
| 0043            | PWR-C3-750WDC-F    | Cisco 750W DC Config 3 Power Supply back to front cooling        | 40    | \$367.50    | \$14,700.00    |
| 0044            | PWR-C3-750WDC-F/2  | Cisco 750W DC Config 3 Redundant Power Supply back to front cool | 40    | \$367.50    | \$14,700.00    |
| 0045            | FAN-T3-F           | Cisco Catalyst 3850 Type 3 back to front cooling Fan             | 200   | \$-         | \$-            |
| 0046            | A9K-MPA-2X40GE=    | Cisco ASR 9000 2-port 40GE Modular Port Adapter                  | 4     | \$11,250.00 | \$45,000.00    |
| 0047            | A9K-MPA-8X10GE=    | Cisco ASR 9000 8-port 10GE Modular Port Adapter                  | 4     | \$9,750.00  | \$39,000.00    |
| 0048            | A9K-MPA-2X100GE=   | Cisco ASR 9000 2-port 100GE Modular Port Adapter                 | 1     | \$24,212.50 | \$24,212.50    |
| 0049            | N77-M312CQ-26L=    | Cisco Nexus 7700 M3-Series 12 Port 100GE                         | 1     | \$16,560.00 | \$16,560.00    |
| 0050            | N77-M348XP-23L=    | Cisco Nexus 7700 M3-Series 48 Port 10GE                          | 1     | \$9,555.00  | \$9,555.00     |
| 0051            | QSFP-100G-LR4-S=   | Cisco 100GBASE LR4 QSFP Transceiver, LC, 10km over SMF           | 19    | \$4,469.26  | \$84,915.94    |
| 0052            | SFP-10G-ER=        | Cisco 10GBASE-ER SFP Module                                      | 14    | \$1,450.00  | \$20,300.00    |
| 0053            | GLC-SX-MMD=        | Cisco 100GBASE-SX SFP transceiver mod MMF 850nm DOM              | 280   | \$72.50     | \$20,300.00    |
| 0054            | R-UNITYCN11-K9     | Cisco Unity Connection 11.x Software                             | 1     | \$-         | \$-            |
| 0055            | CON-ECMU-RUNITYCK  | Cisco SWSS UPGRADES Unity Connection                             | 1     | \$-         | \$-            |
| 0056            | UNITYCN11-STD-USR  | Cisco One Unity Connection 11.x User - All user                  | 10000 | \$22.50     | \$225,000.00   |
| 0057            | CON-ECMU-UNITCN0S  | Cisco SWSS UPGRADES One Unity                                    | 10000 | \$9.75      | \$97,500.00    |
| 0058            | UCXN-11X-SC-PORTS  | Cisco Unity Connection 11.x SpeechConnect                        | 2     | \$-         | \$-            |
| 0059            | UNITYCN11-PAK      | Cisco Unity Connection 11.x PAK                                  | 1     | \$-         | \$-            |
| 0060            | LIC-SPECHVIEW-DEMO | Cisco SpeechView Unity Connection Demo for 50 users              | 1     | \$-         | \$-            |
| Grant Total B.3 |                    |  |       |             | \$1,593,992.28 |