

18<sup>th</sup> September 2020  
To,

Connectivity IT Solutions Pvt Ltd  
No. 1877, 1st Floor, 31st Cross, 10th Main,  
Banashankari 2nd Stage,  
Bangalore – 560070

Sub: Confirmation of Products for Shivamogga Smart City

With reference to the tender UDD/2019-20/IND170 and relevant work order no SSCL/ICT-ICCC/147/2020-21/WO dated 25.08.2020 from Shivamogga Smart City Ltd, we intend to inform you that we are in the process of finalizing the list of OEMs'. In this regard we would like to inform you that we have preferred CISCO for the list of products listed out in Annexure-A

We intend to place the order for procurement of Cisco hardware & services and installation and commissioning support (Go-Live) services from you at a total price of INR 70,00,000 + GST. The above prices shall cover total 5-year support also.

We will release the formal system generated Purchase Order along with the mutually agreed payment terms upon confirmation on the acceptance of this PPO.

Looking forward to your continued support.

Thanking you,

For Aabmatica Technologies Pvt Ltd.

(Arvind Tewari)  
Authorised Signatory

Annexure A

| Line Number           | Part Number        | Description                                                 | Service Duration (Months) | Qty |
|-----------------------|--------------------|-------------------------------------------------------------|---------------------------|-----|
| <b>MPLS Router</b>    |                    |                                                             |                           |     |
| <b>1.0</b>            | <b>ISR4461/K9</b>  | Cisco ISR 4461 (2x10GE+4x1GE,3NIM,3SM,8G FLASH,4G DRAM)     | ---                       | 2   |
| 1.0.1                 | CON-SNT-ISR44619   | SNTC-8X5XNBD Cisco ISR 4461 (4GE,3NIM,3SM,8G FLASH,4G       | 60                        | 2   |
| 1.1                   | SL-44-IPB-K9       | IP Base License for Cisco ISR 4400 Series                   | ---                       | 2   |
| 1.2                   | SL-44-SEC-K9       | Security License for Cisco ISR 4400 Series                  | ---                       | 2   |
| 1.3                   | FL-4460-PERF-K9    | Performance on Demand License for 4460 Series               | ---                       | 2   |
| 1.4                   | PWR-4460-650-AC    | 650W AC Power Supply for Cisco ISR 4461                     | ---                       | 2   |
| 1.5                   | PWR-4460-650-AC2   | Redundant 650W AC Power Supply for Cisco ISR 4461           | ---                       | 2   |
| 1.6                   | CAB-IND            | AC Power Cord (India)                                       | ---                       | 4   |
| 1.7                   | ACS-4460-FANASSY   | Cisco ISR 4460 Fan Assembly                                 | ---                       | 2   |
| 1.8                   | SM-F-BLANK         | Fixed faceplate for SM slot on Cisco 4461 ISR               | ---                       | 2   |
| 1.9                   | MEM-4460-DP-4G     | 4G DRAM for Cisco ISR 4460 Data Plane                       | ---                       | 2   |
| 1.10                  | MEM-4460-8G        | 8G DRAM (1 DIMM) for Cisco ISR 4460                         | ---                       | 2   |
| 1.11                  | POE-COVER-4450     | Cover for empty POE slot on Cisco ISR 4450                  | ---                       | 4   |
| 1.12                  | NIM-BLANK          | Blank faceplate for NIM slot on Cisco ISR 4400              | ---                       | 6   |
| 1.13                  | SM-S-BLANK         | Removable faceplate for SM slot on Cisco 2900,3900,4400 ISR | ---                       | 4   |
| 1.14                  | SISR4400V2UK9-169  | Cisco ISR 4400 Series IOS XE Universal                      | ---                       | 2   |
| <b>2.0</b>            | <b>GLC-LH-SMD=</b> | 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM | ---                       | 8   |
| <b>FIREWALL + IPS</b> |                    |                                                             |                           |     |
| <b>3.0</b>            | <b>FPR2130-BUN</b> | Cisco Firepower 2130 Master Bundle                          | ---                       | 1   |
| 3.1                   | FPR2130-NGFW-K9    | Cisco Firepower 2130 NGFW Appliance, 1U, 1 x NetMod Bay     | ---                       | 2   |
| 3.1.0.1               | CON-SNT-FPR2130W   | SNTC-8X5XNBD Cisco Firepower 2130 NGFW Appliance, 1U,       | 60                        | 2   |
| 3.1.1                 | FPR2K-PWR-AC-400   | Firepower 2000 Series 400W AC Power Supply                  | ---                       | 2   |
| 3.1.2                 | PWR-CORD-IND-D     | Power Cord for India                                        | ---                       | 4   |
| 3.1.3                 | SF-F2K-TD6.3-K9    | Cisco Firepower Threat Defense software v6.3 for FPR2100    | ---                       | 2   |
| 3.1.4                 | FPR2K-SSD200       | Firepower 2000 Series SSD for FPR-2130/2140                 | ---                       | 2   |
| 3.1.5                 | FPR2K-SLIDE-RAILS  | Firepower 2000 Slide Rail Kit                               | ---                       | 2   |

| Line Number                        | Part Number          | Description                                                  | Service Duration (Months) | Qty |
|------------------------------------|----------------------|--------------------------------------------------------------|---------------------------|-----|
| 3.1.6                              | FPR2K-NM-BLANK       | Firepower 2000 Series Network Module Blank Slot Cover        | ---                       | 2   |
| 3.1.7                              | FPR2K-FAN            | Firepower 2000 Series Fan Tray                               | ---                       | 2   |
| 3.1.8                              | FPR2K-PWR-AC-400     | Firepower 2000 Series 400W AC Power Supply                   | ---                       | 2   |
| 3.1.9                              | FPR2K-SSD-BBLKD      | Firepower 2000 Series SSD Slot Carrier                       | ---                       | 2   |
| 3.2                                | L-FPR2130T-TMC=      | Cisco FPR2130 Threat Defense Threat, Malware and URL License | ---                       | 2   |
| 3.2.0.1                            | L-FPR2130T-TMC-5Y    | Cisco FPR2130 Threat Defense Threat, Malware and URL 5Y Subs | 60                        | 2   |
| <b>Management - FIREWALL + IPS</b> |                      |                                                              |                           |     |
| <b>4.0</b>                         | <b>FMC1600-K9</b>    | Cisco Firepower Management Center 1600 Chassis               | ---                       | 1   |
| 4.0.1                              | CON-SNT-FCM1600K     | SNTC-8X5XNBD Cisco Firepower Management Center 1600 C        | 60                        | 1   |
| 4.1                                | FMC-M5-PS-AC-770W    | Cisco FMC 770W AC Power Supply                               | ---                       | 2   |
| 4.2                                | SF-FMC-6.4-K9        | Cisco Firepower Management Center Software v6.4              | ---                       | 1   |
| 4.3                                | FMC-M5-CPU-4110      | Cisco FMC 2.1 GHz 4110 Processor, 11MB Cache, 8 Core         | ---                       | 1   |
| 4.4                                | FMC-M5-MEM-16GB      | Cisco FMC 16GB DDR4-2666-MHz RDIMM/PC4-21300/Single Rank     | ---                       | 2   |
| 4.5                                | FMC-M5-MRAID-12G     | Cisco FMC 12G Modular RAID controller with 2GB cache         | ---                       | 1   |
| 4.6                                | FMC-M5-SD-32G        | Cisco FMC 32GB SD Card Module                                | ---                       | 1   |
| 4.7                                | FMC-M5-TPM-2.0       | Cisco FMC Trusted Platform Module 2.0                        | ---                       | 1   |
| 4.8                                | FMC-M5-HDD-1.2TB     | Cisco FMC 1.2TB 12G SAS 10K RPM SFF HDD                      | ---                       | 2   |
| 4.9                                | FMC-M5-MSTOR-SD      | Cisco FMC Mini Storage Carrier Card for SD (holds up to 2)   | ---                       | 1   |
| 4.10                               | CAB-250V-10A-ID      | AC Power Cord - 250V, 10A , India                            | ---                       | 2   |
| 4.11                               | FMC-M5-NIC-SFP       | Cisco FMC X710-DA2 dual-port 10G SFP+ NIC                    | ---                       | 1   |
| <b>CORE SWITCH – 48 PORT</b>       |                      |                                                              |                           |     |
| <b>5.0</b>                         | <b>C9500-48Y4C-A</b> | Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage | ---                       | 2   |
| 5.0.1                              | CON-SNT-C9504YA4     | SNTC-8X5XNBD Catalyst 9500 48-port 25/100G only, Adva        | 60                        | 2   |
| 5.1                                | C9500-NW-A           | C9500 Network Stack, Advantage                               | ---                       | 2   |
| 5.2                                | C9K-PWR-650WAC-R     | 650W AC Config 4 Power Supply front to back cooling          | ---                       | 2   |
| 5.3                                | C9K-PWR-650WAC-R/2   | 650W AC Config 4 Power Supply front to back cooling          | ---                       | 2   |
| 5.4                                | CAB-IND-10A          | 10A Power cable for India                                    | ---                       | 4   |
| 5.5                                | C9K-F1-SSD-BLANK     | Cisco pluggable SSD storage                                  | ---                       | 2   |
| 5.6                                | C9500-DNA-48Y4C-A    | C9500 DNA Advantage, Term License                            | ---                       | 2   |
| 5.6.0.1                            | C9500-DNA-A-5Y       | DNA Advantage 5 Year License                                 | 60                        | 2   |

| Line Number                   | Part Number        | Description                                                  | Service Duration (Months) | Qty |
|-------------------------------|--------------------|--------------------------------------------------------------|---------------------------|-----|
| 5.7                           | PI-LFAS-T          | Prime Infrastructure Lifecycle & Assurance Term - Smart Lic  | ---                       | 6   |
| 5.7.0.1                       | PI-LFAS-AP-T-5Y    | PI Dev Lic for Lifecycle & Assurance Term 5Y                 | 60                        | 6   |
| 5.8                           | NETWORK-PNP-LIC    | Network Plug-n-Play Connect for zero-touch device deployment | ---                       | 2   |
| 5.9                           | SC9500HUK9-1612    | Cisco Catalyst 9500H XE.16.12 UNIVERSAL                      | ---                       | 2   |
| 6.0                           | GLC-SX-MMD=        | 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM          | ---                       | 40  |
| 7.0                           | GLC-TE=            | 1000BASE-T SFP transceiver module for Category 5 copper wire | ---                       | 40  |
| 8.0                           | SFP-10G-SR=        | 10GBASE-SR SFP Module                                        | ---                       | 16  |
| 9.0                           | QSFP-40G-SR4=      | 40GBASE-SR4 QSFP Transceiver Module with MPO Connector       | ---                       | 4   |
| <b>ACCESS SWITCH -24 PORT</b> |                    |                                                              |                           |     |
| 10.0                          | C9200L-24T-4X-E    | Catalyst 9200L 24-port data, 4 x 10G ,Network Essentials     | ---                       | 2   |
| 10.0.1                        | CON-SNT-C920L24X   | SNTC-8X5XNBD Catalyst 9200L 24-port data, 4 x 10G ,Ne        | 60                        | 2   |
| 10.1                          | C9200L-NW-E-24     | C9200L Network Essentials, 24-port license                   | ---                       | 2   |
| 10.2                          | CAB-TA-IN          | India AC Type A Power Cable                                  | ---                       | 2   |
| 10.3                          | PWR-C5-BLANK       | Config 5 Power Supply Blank                                  | ---                       | 2   |
| 10.4                          | C9200-STACK-BLANK  | Catalyst 9200 Blank Stack Module                             | ---                       | 4   |
| 10.5                          | C9200L-DNA-E-24    | C9200L Cisco DNA Essentials, 24-port Term license            | ---                       | 2   |
| 10.5.0.1                      | C9200L-DNA-E-24-5Y | C9200L Cisco DNA Essentials, 24-port, 5 Year Term license    | 60                        | 2   |
| 10.6                          | NETWORK-PNP-NONE   | Network Plug-n-Play Opt Out SKU                              | ---                       | 2   |
| 11.0                          | SFP-10G-SR=        | 10GBASE-SR SFP Module                                        | ---                       | 4   |
| <b>Hyperflex</b>              |                    |                                                              |                           |     |
| 12.0                          | HX2X0C-M5S         | Cisco Hyperconverged System                                  | ---                       | 1   |
| 12.1                          | HX240C-M5L         | Cisco HyperFlex HX240c M5 LFF                                | ---                       | 4   |
| 12.1.0.1                      | CON-SNT-HX240M5L   | SNTC 8X5XNBD Cisco HyperFlex HX240c M5 LFF                   | 60                        | 4   |
| 12.1.1                        | HX-SAS-M5          | Cisco 12G Modular SAS HBA (max 16 drives)                    | ---                       | 4   |
| 12.1.2                        | HX-PCI-1-C240M5    | Riser 1 incl 3 PCIe slots (x8, x16, x8)                      | ---                       | 4   |
| 12.1.3                        | HX-PCI-2B-240M5    | Riser 2B incl 3PCIEslots(x8,x16,x8)+2NVMe(1cnctr)supportsGPU | ---                       | 4   |
| 12.1.4                        | HX-HD12T7KL4KN     | 12TB 12G SAS 7.2K RPM LFF HDD (4K)                           | ---                       | 44  |
| 12.1.5                        | HX-SD32T123X-EP    | 3.2TB 2.5in Enterprise Performance 12G SAS SSD(3X endurance) | ---                       | 4   |
| 12.1.6                        | HX-SD240GM1X-EV    | 240GB 2.5 inch Enterprise Value 6G SATA SSD                  | ---                       | 4   |

| Line Number | Part Number             | Description                                                  | Service Duration (Months) | Qty |
|-------------|-------------------------|--------------------------------------------------------------|---------------------------|-----|
| 12.1.7      | HX-M2-240GB             | 240GB SATA M.2                                               | ---                       | 4   |
| 12.1.8      | HX-MLOM-C25Q-04         | Cisco UCS VIC 1457 Quad Port 10/25G SFP28 CNA MLOM           | ---                       | 4   |
| 12.1.9      | HX-PSU1-1050W           | Cisco UCS 1050W AC Power Supply for Rack Server              | ---                       | 8   |
| 12.1.10     | CAB-250V-10A-ID         | AC Power Cord - 250V, 10A , India                            | ---                       | 8   |
| 12.1.11     | HX-RAILB-M4             | Ball Bearing Rail Kit for C220 M4 and C240 M4 rack servers   | ---                       | 4   |
| 12.1.12     | UCSC-HS-C240M5          | Heat sink for UCS C240 M5 rack servers 150W CPUs & below     | ---                       | 8   |
| 12.1.13     | UCSC-RSAS-C240M5        | C240 Rear UCSC-RAID-M5 SAS cbl(1)kit incl.bkplnforSFF&LFF    | ---                       | 4   |
| 12.1.14     | UCS-MSTOR-M2            | Mini Storage carrier for M.2 SATA/NVME (holds up to 2)       | ---                       | 4   |
| 12.1.15     | HX240C-BZL-M5S          | HX240C M5 Security Bezel                                     | ---                       | 4   |
| 12.1.16     | HX-VSP-6-7-EPL-D        | Factory Installed - VMware vSphere 6.7 Ent Plus SW+Lic 2-CPU | ---                       | 4   |
| 12.1.16.0.1 | CON-ECMU-HX67EPLD       | SWSS UPGRADES Factory Installed - VMware vSphere 6.7 En      | 60                        | 4   |
| 12.1.17     | HX-VSP-6-7-EPL-DL       | Factory Installed - vSphere 6.7 Enterprise Plus SW Dnld      | ---                       | 4   |
| 12.1.18     | HX-MR-X32G2RT-H         | 32GB DDR4-2933-MHz RDIMM/2Rx4/1.2v                           | ---                       | 16  |
| 12.1.19     | HX-MSD-32G              | 32GB Micro SD Card for UCS M5 servers                        | ---                       | 4   |
| 12.1.20     | UCSC-BBLKD-L2           | C-Series M5 LFF drive blanking panel                         | ---                       | 4   |
| 12.1.21     | HX-CPU-I4210            | Intel 4210 2.2GHz/85W 10C/11MB DDR4 2400MHz                  | ---                       | 8   |
| 12.2        | HX-FI-6454              | UCS Fabric Interconnect 6454                                 | ---                       | 2   |
| 12.2.0.1    | CON-SNT-HXFI6454        | SNTC-8X5XNBD UCS Fabric Interconnect 6454                    | 60                        | 2   |
| 12.2.1      | N10-MGT016              | UCS Manager v4.0                                             | ---                       | 2   |
| 12.2.2      | UCS-PSU-6332-AC         | UCS 6332/ 6454 Power Supply/100-240VAC                       | ---                       | 4   |
| 12.2.3      | CAB-250V-10A-ID         | AC Power Cord - 250V, 10A , India                            | ---                       | 4   |
| 12.2.4      | SFP-10G-SR              | 10GBASE-SR SFP Module                                        | ---                       | 4   |
| 12.2.5      | UCS-ACC-6332            | UCS 6332/ 6454 Chassis Accessory Kit                         | ---                       | 2   |
| 12.2.6      | UCS-FAN-6332            | UCS 6332/ 6454 Fan Module                                    | ---                       | 8   |
| 12.2.7      | SFP-H10GB-ACU10M        | Active Twinax cable assembly, 10m                            | ---                       | 12  |
| 12.2.8      | FET-10G                 | 10G Line Extender for FEX                                    | ---                       | 40  |
| 12.3        | HXDP-S001-5YR=          | Cisco HyperFlex Data Platform Standard Edition 5 Yr Subscrip | ---                       | 4   |
| 12.3.0.1    | HXDPS001-5YR            | HyperFlex Data Platform Standard Edition 5 Yr Subscription   | 60                        | 4   |
| <b>WLC</b>  |                         |                                                              |                           |     |
| <b>13.0</b> | <b>AIR-CT5520-50-K9</b> | Cisco 5520 Wireless Controller supporting 50 APs w/rack kit  | ---                       | 1   |

| Line Number           | Part Number        | Description                                                  | Service Duration (Months) | Qty |
|-----------------------|--------------------|--------------------------------------------------------------|---------------------------|-----|
| 13.0.1                | CON-SNT-AIRT5550   | SNTC-8X5XNBD Cisco 5520 Wireless Controller supportin        | 60                        | 1   |
| 13.1                  | LIC-CT5520-50A     | Cisco 5520 Wireless Controller 50 AP License                 | ---                       | 1   |
| 13.2                  | SFS-250V-10A-ID    | SFS Power Cord - 250V, 10A , India                           | ---                       | 1   |
| 13.3                  | AIR-CT5520-SW-8.2  | Cisco 5520 Wireless Controller SW Rel. 8.2                   | ---                       | 1   |
| 13.4                  | AIR-PSU1-770W      | 770W AC Hot-Plug Power Supply for 5520 Controller            | ---                       | 1   |
| 13.5                  | AIR-BZL-C220M4     | Cisco 5520 Wireless Controller Security Bezel                | ---                       | 1   |
| 13.6                  | AIR-CPU-E52609D    | 1.90 GHz E5-2609 v3/85W 6C/15MB Cache/DDR4 1600MHz           | ---                       | 1   |
| 13.7                  | AIR-CT6870-NIC-K9  | PCIe Network Interface 20G                                   | ---                       | 1   |
| 13.8                  | AIR-SD-32G-S       | 32GB SD Card for UCS servers                                 | ---                       | 1   |
| 13.9                  | AIR-TPM2-001       | Trusted Platform Module 1.2 for UCS (SPI-based)              | ---                       | 1   |
| 13.10                 | AIR-PSU-BLKP1U     | Power Supply Blanking Panel for C220 M4 servers              | ---                       | 1   |
| 13.11                 | AIR-SD240GBKS4-EV  | 240GB 2.5 inch Enterprise Value 6G SATA SSD                  | ---                       | 1   |
| 13.12                 | AIR-MR-1X082RV-A   | 16GB DDR4-2400-MHz RDIMM/PC4-19200/double rank/x4/1.2v       | ---                       | 2   |
| 14.0                  | SFP-10G-SR=        | 10GBASE-SR SFP Module                                        | ---                       | 4   |
| <b>ACCESS POINTS</b>  |                    |                                                              |                           |     |
| 15.0                  | AIR-AP1562D-D-K9   | 802.11ac W2 Low-Profile Outdoor AP, Direct. Ant, D Reg Dom.  | ---                       | 2   |
| 15.0.1                | CON-SNT-AIRAPPD9   | SNTC-8X5XNBD 802.11ac W2 Low-Prof                            | 60                        | 2   |
| 15.1                  | SWAP1560-MESH-K9   | Cisco 1560 Series Unified Mesh Mode Software                 | ---                       | 2   |
| 15.2                  | AIR-ACC1530-PMK1   | Standard Pole/Wall Mount Kit for AP1530/1560 Series          | ---                       | 2   |
| 15.3                  | AIR1560-DNA-OPTOUT | CISCO DNA SUBSCRIPTION OPTOUT for AIR1560                    | ---                       | 2   |
| <b>Power Injector</b> |                    |                                                              |                           |     |
| 16.0                  | AIR-PWRINJ-60RGD2= | Power Injector, 60W, outdoor, global version without AC plug | ---                       | 2   |
| <b>AAA server</b>     |                    |                                                              |                           |     |
| 17.0                  | SNS-3615-K9        | Small Secure Network Server for ISE Applications             | ---                       | 1   |
| 17.0.1                | CON-SNT-SNS3615K   | SNTC-8X5XNBD Small Secure Network Server for ISE Appl        | 60                        | 1   |
| 17.1                  | SFS-250V-10A-ID    | SFS Power Cord - 250V, 10A , India                           | ---                       | 1   |
| 17.2                  | SNS-CPU-4110       | 2.1 GHz 4110/85W 8C/11MB Cache/DDR4 2400MHz                  | ---                       | 1   |
| 17.3                  | SNS-HD600G10K12N   | 600GB 12G SAS 10K RPM SFF HDD                                | ---                       | 1   |
| 17.4                  | SW-36X5-ISE-K9     | Cisco ISE Software Load on SNS-36x5-K9 appliance             | ---                       | 1   |

| Line Number             | Part Number             | Description                                                  | Service Duration (Months) | Qty |
|-------------------------|-------------------------|--------------------------------------------------------------|---------------------------|-----|
| 17.5                    | SNS-PSU1-770W           | 770W power supply                                            | ---                       | 1   |
| 17.6                    | SNS-PCIE-IRJ45          | Intel i350 Quad Port 1Gb Adapter                             | ---                       | 1   |
| 17.7                    | R2XX-RAID0              | Enable RAID 0 Setting                                        | ---                       | 1   |
| 17.8                    | SNS-RAID-M5             | Cisco 12G Modular RAID controller with 2GB cache             | ---                       | 1   |
| 17.9                    | SNS-MR-X16G1RT-H        | 16GB DDR4-2933-MHz RDIMM/1Rx4/1.2v                           | ---                       | 2   |
| <b>18.0</b>             | <b>L-ISE-BSE-PLIC</b>   | Cisco ISE Base License                                       | ---                       | 1   |
| 18.1                    | L-ISE-BSE-P2            | Cisco ISE Base License - Sessions 250 to 499                 | ---                       | 300 |
| <b>19.0</b>             | <b>L-ISE-PLS-LIC=</b>   | Cisco ISE Plus License                                       | ---                       | 300 |
| 19.0.1                  | L-ISE-PLS-5Y-S2         | Cisco ISE Plus License, 5Y, 250 - 499 Sessions               | 60                        | 300 |
| <b>20.0</b>             | <b>L-ISE-APX-LIC=</b>   | Cisco ISE Apex License                                       | ---                       | 300 |
| 20.0.1                  | L-ISE-APX-5Y-S2         | Cisco ISE Apex License, 5Y, 250 - 499 Sessions               | 60                        | 300 |
| <b>21.0</b>             | <b>L-ISE-TACACS-ND=</b> | Cisco ISE Device Admin Node License                          | ---                       | 1   |
| <b>IP PBX</b>           |                         |                                                              |                           |     |
| <b>22.0</b>             | <b>BE6H-M5-K9</b>       | Cisco Business Edition 6000H (M5) Appliance, Export Restr SW | ---                       | 2   |
| 22.0.1                  | CON-SNT-BE6HM5K9        | SNTC-8X5XNBD Cisco Business Edition 6000H (M5) Applia        | 60                        | 2   |
| 22.1                    | BE6K-PSU                | Cisco UCS 770W AC Power Supply for Rack Server               | ---                       | 4   |
| 22.2                    | BE6H-NIC1               | Intel i350 Quad Port 1Gb Adapter                             | ---                       | 2   |
| 22.3                    | BE6K-RAIDCTRLR          | Cisco 12G Modular RAID controller with 2GB cache             | ---                       | 2   |
| 22.4                    | BE6K-DISK               | 300GB 12G SAS 10K RPM SFF HDD                                | ---                       | 16  |
| 22.5                    | R2XX-RAID5              | Enable RAID 5 Setting                                        | ---                       | 2   |
| 22.6                    | BE6K-RAM                | 16GB DDR4-2666-MHz RDIMM/PC4-21300/single rank/x4/1.2v       | ---                       | 8   |
| 22.7                    | BE6K-CPU                | 2.2 GHz 4114/85W 10C/13.75MB Cache/DDR4 2400MHz              | ---                       | 4   |
| 22.8                    | CAB-250V-10A-ID         | AC Power Cord - 250V, 10A , India                            | ---                       | 4   |
| 22.9                    | VMW-VS6-HYPPLS-K9       | Embedded License, Cisco UC Virt. Hypervisor Plus 6.x (2-cpu) | ---                       | 2   |
| <b>IP - PBX License</b> |                         |                                                              |                           |     |
| <b>23.0</b>             | <b>R-CBE6K-K9</b>       | Cisco Business Edition 6000-Electronic SW Delivery-Top Level | ---                       | 1   |
| 23.0.1                  | CON-ECMU-RCBE6KK        | SWSS UPGRADES Cisco Business Editi                           | 60                        | 1   |
| 23.1                    | BE6K-SW-12.5            | Business Edition 6000 v12.5 export restricted software       | ---                       | 1   |
| 23.2                    | BE6K-START-MTG35        | BE6000 Starter Bundle with 35 UWL Meetings Licenses          | ---                       | 1   |
| 23.3                    | BE6K-UCL-TP-RM          | Cisco Business Edition 6000 - Telepresence Room System User  | ---                       | 1   |



| Line Number | Part Number        | Description                                                  | Service Duration (Months) | Qty |
|-------------|--------------------|--------------------------------------------------------------|---------------------------|-----|
| 23.4        | FIRST-MTG          | Select when first ordering or upgrading CUWL Meetings licens | ---                       | 1   |
| 23.5        | LIC-EXP-RMS-PMP    | RMS Licensing included with PMP & SMP                        | ---                       | 6   |
| 23.6        | LIC-TMS-PMP-PAK    | TMS PAK for Configuration Use                                | ---                       | 1   |
| 23.7        | LIC-TMS-APL-S80100 | TMS Serial Number included with Base Software                | ---                       | 1   |
| 23.8        | SW-TMS-15.X-K9     | TMS Base Software Image Version 15.X                         | ---                       | 1   |
| 23.9        | LIC-TMS-25-PMP     | Cisco TMS - Additional 25 Direct Managed Systems             | ---                       | 1   |
| 23.10       | LIC-EXP-MSFT-PMP   | Microsoft Interoperability Option                            | ---                       | 1   |
| 23.11       | LIC-TMS-EX25-PMP   | TMS Exchange integration for 25 Systems                      | ---                       | 1   |
| 23.12       | SME-12-UWL         | Session Manager 12.0 Auto-expanding user for licensing       | ---                       | 7   |
| 23.13       | BE-UWL-12X-MTG     | BE6000 CUWL Meetings 12.x Users - For Service Attach Only    | ---                       | 35  |
| 23.13.0.1   | CON-ECMU-BEUWL1MT  | SWSS UPGRADES BE6000 CUWL Meetings 12.x Users - For Se       | 60                        | 35  |
| 23.14       | UCM-12X-TP-UCL     | BE6000 UCM 12X TP Room User Conn Lic (new, addon, vers-upg)  | ---                       | 1   |
| 23.14.0.1   | CON-ECMU-UC12XTLP  | SWSS UPGRADES BE6000 UCM 12X TP Room User Conn Lic (ne       | 60                        | 1   |
| 23.15       | UCM-12X-UWLSTDMTG  | BE6000 UCM 12X User Lic CUWL Std Mtgs (new, addon, vers-upg) | ---                       | 35  |
| 23.16       | UCXN-12X-SCPORTS   | BE6000 Unity Connection 12x - VM Speech Connect Ports        | ---                       | 2   |
| 23.17       | EXPWY-VE-C-K9      | Cisco Expressway-C Server, Virtual Edition                   | ---                       | 2   |
| 23.18       | EXPWY-VE-E-K9      | Cisco Expressway-E Server, Virtual Edition                   | ---                       | 2   |
| 23.19       | LIC-CMS-PAK        | Cisco Meeting Server (CMS) PAK                               | ---                       | 1   |
| 23.20       | LIC-EXP-ROOM       | Expressway Room License                                      | ---                       | 1   |
| 23.21       | LIC-EXP-DSK        | Expressway Desktop Endpoint License                          | ---                       | 70  |
| 23.22       | LIC-CMS-PMP+USER   | 1 CMS (Cisco Meeting Server) PMP PLUS User License           | ---                       | 35  |
| 23.22.0.1   | CON-ECMU-LICCMSMP  | SWSS UPGRADES 1 CMS (Cisco Meeting                           | 60                        | 35  |
| 23.23       | WBXMTSVR3-UWLUSRK9 | WebEx Meetings Server 3.x Users                              | ---                       | 35  |
| 23.24       | LIC-EXP-E-PAK      | Expressway Series, Expressway-E PAK                          | ---                       | 1   |
| 23.25       | LIC-EXP-GW         | Enable GW Feature (H323-SIP)                                 | ---                       | 4   |
| 23.26       | LIC-EXP-E          | Enable Expressway-E Feature Set                              | ---                       | 2   |
| 23.27       | LIC-EXP-TURN       | Enable TURN Relay Option                                     | ---                       | 2   |
| 23.28       | LIC-EXP-AN         | Enable Advanced Networking Option                            | ---                       | 2   |
| 23.29       | LIC-SW-EXP-K9      | License Key Software Encrypted                               | ---                       | 4   |
| 23.30       | LIC-EXP-SERIES     | Enable Expressway Series Feature Set                         | ---                       | 4   |



| Line Number | Part Number                     | Description                                                  | Service Duration (Months) | Qty |
|-------------|---------------------------------|--------------------------------------------------------------|---------------------------|-----|
| 23.31       | R-WBXMTSVR-UWL-K9               | Webex Meetings Server 3.x Software Kit                       | ---                       | 1   |
| 23.32       | SW-EXP-12.X-K9                  | Software Image for Expressway with Encryption, Version X12   | ---                       | 1   |
|             | <b>IP Phone</b>                 |                                                              |                           |     |
| <b>24.0</b> | <b>CP-8845-K9=</b>              | Cisco IP Phone 8845                                          | ---                       | 25  |
| 24.0.1      | CON-SNT-CP8845K9                | SNTC-8X5XNBD Cisco IP Phone 8845                             | 60                        | 25  |
| <b>25.0</b> | <b>CP-PWR-CUBE-4=</b>           | IP Phone power transformer for the 89/9900 phone series      | ---                       | 25  |
| <b>26.0</b> | <b>CP-PWR-CORD-IN=</b>          | Power Cord, India                                            | ---                       | 25  |
|             | <b>Voice Gateway</b>            |                                                              |                           |     |
| <b>27.0</b> | <b>ISR4321-V/K9</b>             | Cisco ISR 4321 Bundle, w/UC License                          | ---                       | 2   |
| 27.0.1      | CON-SNT-ISR4321V                | SNTC-8X5XNBD Cisco ISR 4321 UC Bundle, PVD4-32, UC L         | 60                        | 2   |
| 27.1        | SL-4320-UC-K9                   | Unified Communication License for Cisco ISR 4320 Series      | ---                       | 2   |
| 27.2        | SL-4320-IPB-K9                  | IP Base License for Cisco ISR 4320 Series                    | ---                       | 2   |
| 27.3        | PWR-4320-AC                     | AC Power Supply for Cisco ISR 4320                           | ---                       | 2   |
| 27.4        | CAB-AC-C5-IND                   | AC Power Cord, Type C5, India                                | ---                       | 2   |
| 27.5        | CAB-CONSOLE-RJ45                | Console Cable 6ft with RJ45 and DB9F                         | ---                       | 2   |
| 27.6        | MEM-FLSH-4G                     | 4G Flash Memory for Cisco ISR 4300 (Soldered on motherboard) | ---                       | 2   |
| 27.7        | MEM-4320-4G                     | 4G DRAM for Cisco ISR 4320 (Soldered on motherboard)         | ---                       | 2   |
| 27.8        | NIM-BLANK                       | Blank faceplate for NIM slot on Cisco ISR 4400               | ---                       | 2   |
| 27.9        | CUBE-T-STD                      | CUBE - 1 Standard Trunk Session License                      | ---                       | 60  |
| 27.9.0.1    | CON-ECMU-CUBETSTD               | SWSS UPGRADES CUBE Standard Trunk Single Session - 1 S       | 60                        | 60  |
| 27.10       | SISR4300UK9-166                 | Cisco ISR 4300 Series IOS XE Universal                       | ---                       | 2   |
| 27.11       | NIM-2MFT-T1/E1                  | 2 port Multiflex Trunk Voice/Clear-channel Data T1/E1 Module | ---                       | 2   |
| 27.12       | PVDM4-64                        | 64-channel DSP module                                        | ---                       | 2   |
|             | <b>VIDEO CONFERENCING BRIDE</b> |                                                              |                           |     |
| <b>28.0</b> | <b>CTI-CMS1KM5-BUN-K9</b>       | Cisco Meeting Server 1000 M5 Bundle                          | ---                       | 1   |
| 28.1        | R-CMS-K9                        | Virtual Edition Cisco Meeting Server (CMS)                   | ---                       | 1   |
| 28.1.0.1    | CON-ECMU-RCMSK9                 | SWSS UPGRADES Virtual Edition Cisc                           | 60                        | 1   |
| 28.1.1      | LIC-CMS-K9                      | Cisco Meeting Server Release key (encryption enabled)        | ---                       | 1   |
| 28.1.1.0.1  | CON-ECMU-LICCMSLG               | SWSS UPGRADES Cisco Meeting Server                           | 60                        | 1   |
| 28.1.2      | LIC-CMS-PAK                     | Cisco Meeting Server (CMS) PAK                               | ---                       | 1   |

| Line Number | Part Number        | Description                                                  | Service Duration (Months) | Qty |
|-------------|--------------------|--------------------------------------------------------------|---------------------------|-----|
| 28.1.3      | SW-CMS-2X-K9       | Cisco Meeting Server (CMS) 2.x Software image                | ---                       | 1   |
| 28.1.3.0.1  | CON-ECMU-SWCM2XK9  | SWSS UPGRADES Cisco Meeting Serve                            | 60                        | 1   |
| 28.2        | CTI-CMS-1000-M5-K9 | CMS 1000 M5 Server                                           | ---                       | 1   |
| 28.2.0.1    | CON-SNT-CTICMSM5   | SNTC-8X5XNBD CMS 1000 M5 Server                              | 60                        | 1   |
| 28.2.1      | CAB-250V-10A-ID    | AC Power Cord - 250V, 10A , India                            | ---                       | 2   |
| 28.2.2      | VMW-VS6-CVSTD-K9   | Embedded License, Cisco Collab Virt. Standard 6.x (2-socket) | ---                       | 1   |
| 28.2.2.0.1  | CON-ECMU-VMWVS6CV  | SWSS UPGRADES Embedded License, Cisco Collab Virt. Sta       | 60                        | 1   |
| 28.2.3      | CMS1K-SW-2X        | Cisco Meeting server 1000 sw preload                         | ---                       | 1   |
| 28.2.4      | CIT3-CPU-6140      | 2.3 GHz 6140/140W 18C/24.75MB Cache/DDR4 2666MHz             | ---                       | 2   |
| 28.2.5      | CIT3-HD300G10K12N  | 300GB 12G SAS 10K RPM SFF HDD                                | ---                       | 2   |
| 28.2.6      | CIT3-PSU1-770W     | 770W AC Hot-Plug Power Supply for 1U C-Series Rack Server    | ---                       | 2   |
| 28.2.7      | CIT3-MR-X16G1RS-H  | 16GB DDR4-2666-MHz RDIMM/PC4-21300/single rank/x4/1.2v       | ---                       | 8   |
| 28.2.8      | CIT3-RAID-M5       | Cisco 12G Modular RAID controller with 2GB cache             | ---                       | 1   |
| 28.2.9      | R2XX-RAID1         | Enable RAID 1 Setting                                        | ---                       | 1   |
| <b>29.0</b> | <b>TP-SMP-K9</b>   | Cisco TelePresence Shared Multiparty                         | ---                       | 1   |
| 29.0.1      | CON-ECMU-TPSMPK9   | SWSS UPGRADES Cisco TelePresence Shared Multiparty           | 60                        | 1   |
| 29.1        | SW-EXP-8.X-K9      | Software Image for Expressway with Encryption, Version X8    | ---                       | 2   |
| 29.2        | LIC-EXP-RMS-PMP    | RMS Licensing included with PMP & SMP                        | ---                       | 1   |
| 29.3        | LIC-TMS-PMP-PAK    | TMS PAK for Configuration Use                                | ---                       | 1   |
| 29.4        | LIC-TMS-APL-S80100 | TMS Serial Number included with Base Software                | ---                       | 1   |
| 29.5        | EXPWY-VE-C-K9      | Cisco Expressway-C Server, Virtual Edition                   | ---                       | 2   |
| 29.6        | SW-TMS-15.X-K9     | TMS Base Software Image Version 15.X                         | ---                       | 1   |
| 29.7        | LIC-CMS-PAK        | Cisco Meeting Server (CMS) PAK                               | ---                       | 1   |
| 29.8        | EXPWY-VE-E-K9      | Cisco Expressway-E Server, Virtual Edition                   | ---                       | 2   |
| 29.9        | LIC-TMS-25-PMP     | Cisco TMS - Additional 25 Direct Managed Systems             | ---                       | 1   |
| 29.10       | LIC-EXPE-PMP-PAK   | Expressway Series, Expressway-E PAK                          | ---                       | 1   |
| 29.11       | LIC-CMS-SMP        | Shared Multiparty License for 1 Concurrent Meeting for CMS   | ---                       | 1   |
| 29.12       | LIC-TMS-EX25-PMP   | TMS Exchange integration for 25 Systems                      | ---                       | 1   |
| 29.13       | LIC-TMS-10-INCL    | Cisco TMS - included 10 System License                       | ---                       | 1   |
| 29.14       | LIC-EXP-E-PAK      | Expressway Series, Expressway-E PAK                          | ---                       | 2   |

| Line Number           | Part Number          | Description                                              | Service Duration (Months) | Qty |
|-----------------------|----------------------|----------------------------------------------------------|---------------------------|-----|
| 29.15                 | LIC-EXP-GW           | Enable GW Feature (H323-SIP)                             | ---                       | 2   |
| 29.16                 | LIC-EXP-E            | Enable Expressway-E Feature Set                          | ---                       | 2   |
| 29.17                 | LIC-EXP-TURN         | Enable TURN Relay Option                                 | ---                       | 2   |
| 29.18                 | LIC-EXP-AN           | Enable Advanced Networking Option                        | ---                       | 2   |
| 29.19                 | LIC-SW-EXP-K9        | License Key Software Encrypted                           | ---                       | 2   |
| 29.20                 | LIC-EXP-SERIES       | Enable Expressway Series Feature Set                     | ---                       | 2   |
| 29.21                 | LIC-SMP+             | Shared Multiparty License for 1 Concurrent Meeting       | ---                       | 1   |
| 29.21.0.1             | CON-ECMU-LICSMP      | SWSS UPGRADES Shared Multiparty Li                       | 60                        | 1   |
| 29.22                 | LIC-TMS-STARTERKIT   | TMS Starter Kit for CMS (Acano). Includes TMS 25 devices | ---                       | 1   |
| 29.22.0.1             | CON-ECMU-LICTTERK    | SWSS UPGRADES TMS Starter Kit for                        | 60                        | 1   |
| <b>Video Endpoint</b> |                      |                                                          |                           |     |
| <b>30.0</b>           | <b>CS-KITPLUS-K9</b> | Room Kit Plus w/Codec Plus, Quad Camera and Touch 10.    | ---                       | 1   |
| 30.0.1                | CON-SNT-CSKITPLU     | SNTC-8X5XNBD Room Kit Plus w/Codec Plus, Quad Camera     | 60                        | 1   |
| 30.1                  | PWR-CORD-IND-B       | Power Cord for India 2m 10A                              | ---                       | 2   |
| 30.2                  | CS-MIC-TABLE-J       | Cisco Table Microphone with Jack plug                    | ---                       | 2   |
| 30.2.0.1              | CON-SNT-CSMICTMP     | SNTC-8X5XNBD Cisco Table Microphone with Jack plug       | 60                        | 2   |
| 30.3                  | CS-KITPLUS-WMK       | Wall Mount Kit for Codec Plus                            | ---                       | 1   |
| 30.4                  | CAB-2HDMI-3M-GR      | CAB 3m GREY HDMI 2.0                                     | ---                       | 2   |
| 30.5                  | CAB-ETH-3M-GR        | CAB 3 m/10 ft GREY ETHERNET                              | ---                       | 2   |
| 30.6                  | CAB-PRES-2HDMI-GR    | Presentation cable 8m GREY HDMI 1.4b (W/ REPEATER)       | ---                       | 1   |
| 30.7                  | CS-QUADCAM+          | Cisco Quad Camera                                        | ---                       | 1   |
| 30.8                  | PSU-12VDC-70W-GR+    | Powersupply - AC/DC, 12V, 6.25A, grey                    | ---                       | 2   |
| 30.9                  | BRKT-QCAM-WMK-       | Wall mounting bracket for Quad Camera                    | ---                       | 1   |
| 30.10                 | CS-TOUCH10+          | Cisco Touch10 controller for collaboration endpoints     | ---                       | 1   |
| 30.11                 | CAB-DV10-8M+         | Network cable (ethernet) 8 meter                         | ---                       | 1   |
| 30.12                 | CS-CODEC-PLUS+       | Spark Room Kit Codec Plus for Auto Expand                | ---                       | 1   |