A－1　Switch for firewall

①It should have at least 32 ports of 100GBASE-SR4／LR4. ②It should support remote login via SSHv2. ③It should have a double tagging function based on the IEEE802.1ad.

A－2　Core Switch A

①It should have at least 6, or 8, or 32 ports of 100GBASE-SR4／LR4 respectively. ②It should support remote login via SSHv2. ③Broadly seeks product information on network virtualization capabilities with EVPN-VXLAN.

A－3　Distribution Switch A

①It should have at least 6 ports of 100GBASE-SR4／LR4. ②It should have at least 48 ports of 10Gbase-T. ③It should support remote login via SSHv2. ④Broadly seeks product information on network virtualization capabilities with EVPN-VXLAN.

A－4　Distribution Switch B

①It should have at least 8 ports of 100GBASE-SR4／LR4. ②It should have at least 48 ports of 25GBASE-SR／LR. ③It should support remote login via SSHv2. ④Broadly seeks product information on network virtualization capabilities with EVPN-VXLAN.

A－5　Distribution Switch C

①It should have at least 2 ports of 100GBASE-SR4／LR4. ②It should have a function of NBase-T based on IEEE802.3bz. ③It should operate with PoE＋ power supply based on the IEEE802.3at and IEEE802.3af. ④It should have 24 or more ports as power supply ports. ⑤Broadly seeks product information on supporting IEEE802.3bt. ⑥It should support remote login via SSHv2. ⑦Broadly seeks product information on network virtualization capabilities with EVPN-VXLAN.

A－6　Distribution Switch D

①It should have at least 8 ports of 100GBASE-SR4／LR4. ②It should have at least 48 ports of 25GBASE-SR／LR. ③It should support remote login via SSHv2. ④Broadly seeks product information on network virtualization capabilities with EVPN-VXLAN.

A－7　Floor Switch A

①It should have at least 4 ports of 25GBASE-SR／LR and 10GBASE-SR／LR. ②It should have at least 24 or 48 ports of 1000BASE-T. ③Broadly seeks product information on 24 or 48 ports of PoE power supply. ④It should have a function of loop protection. ⑤It should support remote login via SSHv2. ⑥Broadly seeks product information on network virtualization capabilities.

A－8　Floor Switch B

①It should have at least 4 ports of 10GBASE-SR／LR. ②It should have at least 24 or 48 ports of 1,000BASE-T. ③It should have a function of NBase-T based on IEEE802.3bz. ④Broadly seeks product information on supporting 24 or 48 ports of PoE power supply. ⑤It should have a function of loop protection. ⑥It should support remote login via SSHv2. ⑦Broadly seeks product information on network virtualization capabilities.

A－9　Floor Switch C (PoE Switch)

①It should have a function of NBase-T based on IEEE802.3bz. ②It should have at least 4 ports of 10GBASE-SR／LR. ③It should operate with PoE＋ power supply based on the IEEE802.3at and IEEE802.3af. ④It should have at least 24 or 48 ports of PoE power supply. ⑤Broadly seeks product information on supporting PoE power supply based on the IEEE802.bt. ⑥It should support remote login via SSHv2. ⑦Broadly seeks product information on network virtualization capabilities.

B　Wireless LAN Subsystem

The wireless LAN subsystem provides Internet access services through information outlet based on wireless LAN in KIT. It provides a high-speed network access.

B－1　Wireless LAN Controller

①It should accommodate at least 1,000 Wireless LAN Access Points. ②It should have a function to manage wireless LAN Access points based on the IEEE802.11 a／b／g／n／ac／ax. ③It should have at least 4 ports of 10GBASE-SR／LR for on-premise models. ④It should have a function of Web interface based on HTTPS. ⑤Broadly seeks product information on supporting IEEE802.11be. ⑥Broadly seeks product information on both on-premise or cloud based controller.

B－2　Wireless Access Point A

①It should support the IEEE802.11 a／b／g／n／ac／ax／be. ②It should have a function to detect rogue AP. ③It should operate with PoE＋ power supply based on the IEEE802.3at. ④It should have a function of NBase-T based on IEEE 802.3bz.

B－3　Wireless Access Point B

①It should support the IEEE802.11 a／b／g／n／ac／ax. ②It should support the 6 GHz band. ③It should have a function to detect rogue AP. ④It should operate with PoE＋ power supply based on the IEEE802.3at. ⑤It should have a function of NBase-T based on IEEE802.3bz.

B－4　Wireless Access Point C

①It should support the IEEE802.11 a／b／g／n／ac／ax. ②It should have a function to detect rogue AP. ③It should operate with PoE＋ power supply based on the IEEE802.3at. ④It should have a function of NBase-T based on IEEE 802.3bz.

B－5　Wireless Access Point D

①It should support the IEEE802.11 a／b／g／n／ac／ax. ②It should have a function to detect rogue AP. ③It should operate with PoE＋ power supply based on the IEEE802.3at. ④It should have a function of NBase-T based on IEEE 802.3bz. ⑤It should support the IP67.

C　Next Generation Firewall Subsystem

The next generation firewall subsystem will be devices that is placed at boundary of campus network and the Internet connection. This subsystem should have function to defense unauthorized accesses from the Internet, to prevent the unauthorized traffic from our campus, and to detect the vulnerable hosts in our campus. Next generation firewall devices A and B must be different manufactures.

C－1　Next Generation Firewall A

①It should have virtual domain function. ②It should have sandbox function on cloud or on-premises. ③It should have at least 4 ports of 100GBASE-SR4／LR4. ④It should have at least throughputs of 32 Gbps of threat prevention.

C－2　Next Generation Firewall B

①It should have virtual domain function. ②It should have at least 2 ports of 100GBASE-SR4／LR4. ③It should have at least throughputs of 15 Gbps of next generation firewall.

C－3　Next Generation Firewall C

①It should have virtual domain function. ②It should have at least 4 ports of 25GBASE-SR／LR. ③It should have at least throughputs of 10.5 Gbps of next generation firewall.

D　Virtual Infrastructure Subsystem

The virtual infrastructure subsystem is a device that provides a virtual infrastructure as an infrastructure to provide necessary services for our campus