

SUPERVISOR: Prof. TAM MAN KWAN Ph.D., B.H., B.B.S., J.P. 核監: 譚萬鈞教授・太平紳士 PRINCIPAL: Ms. CHAN YIN YIN(MA) 核長:田盈盈女士(文學碩士)

學校檔號:	JCMKEC-2425012		
公司名稱:			
及地址:			

承投 賽馬會萬鈞毅智書院 提供租賃無線網絡服務 投標書

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投標書應寄往新界元朗天水圍天榮路 5 號(天頌苑)賽馬會萬鈞毅智書院校長收,並須於二零二五 年二月二十八日中午十二時前送達上述地址。逾期的投標書,概不受理。 貴公司的投標書有效 期為 90 天,由上述截標日期起計。如在該 90 天內仍未接獲訂單,則是次投標可視作落選論。另 外亦請注意,貴公司必須填妥投標表格第 II 部分,否則標書概不受理。

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敬頌

台安!

校長 田盈盈 謹啓

二零二五年二月十五日

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供應商/承辦商有關向學校教職員致送禮物注意事項

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根據本校政策,屬下教職員在未獲得法團校董會之特別批准前,不得在執行校務時索取或收受任何禮物、金錢或其他形式的利益,以建立本校教職員之清廉形象。

本校教職員均了解此政策,如有違犯,會遭受紀律處分,而本校亦會考慮將事件向廉署舉報。

本校竭誠希望 貴公司支持本校的廉政方針,假若 貴公司遇有本校教職員索取利益,請盡速通 知本人。

校長 田盈盈 謹啟

二零二五年二月十五日



SUPERVISOR: Prof. TAM MAN KWAN Ph.D., B.H., B.B.S., J.P. 校監: 認萬鈞教授・太平紳士 PRINCIPAL:

Ms. CHAN YIN YIN(MA) 校長:田盈盈女士(文學碩士)

賽馬會萬鈞毅智書院 承投提供租賃無線網絡服務投標書

不擬投標通知書

如 貴公司未能提供服務或產品,請填妥此表格後,並連同所有文件 寄回新界元朗天水圍天榮路 5 號(天頌苑) 賽馬會萬鈞穀智書院

承投:	提供租賃無線網絡服務投標書						
敬標日	期及時間: 2025 年 2 月	28 日	(星期	五.)	中午	十二時正	
有關 上✔)	貴校邀請本公司承投以上服務	,現因」	以下理由	未能	承投	,特此回覆。	(請在適當的口內加
	未能提供標書所示服務/產品						
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			簽	署	1		
			簽署人	姓名	:		
			公	司	; -		
			日	期	•		

地址:新界元朗天水園天榮路5號

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公司印鑑

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PRINCIPAL:

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承投 賽馬會萬鈞毅智書院 提供租賃無線網絡服務 投標表格

學校名稱及地址:賽馬會萬鈞毅智書院 新界元朗天水圍天榮路5號(天頌苑)

學校檔號:_JCMKEC-2425012

截止報價日期/時間: 二零二五年二月二十八日中午十二時正(以投入學校標箱時間計算)

第I部分

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第Ⅱ部分

再行確定投標書的有效期

有關本投標書的第I部分,現再確定本公司的投標書有效期由<u>二零二五年二月二十八日中午十二時正</u>起為期90天。

下方簽署人亦同意,投標書的有效期—經再行確定,其公司就該事項註明於投標表格內的預印條文,即不再適用。

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- (iii) 學校合理地認為上述任何一種情況即將出現。

日期:二零二五年月日 簽署人: 上方簽署人已獲授權,代表:	職銜 (請註明職位):
公司簽署投標書,該公司在香港註冊的就 電話號碼:	辨事處地址為:
傳真號碼:	公司印鑑:

Page 3

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Ms. CHAN YIN YIN(MA)

投標附表

校長:田盈盈女士(文學碩士)

承投 賽馬會萬的毅智書院 提供租賃無線網絡服務投_的投標項目

(1) 項目 編號	(2) 項目說明 /規格	(3) 所需數量	(4) 單價(元)	(5) 總價(元)
1	WiFi Controllers			
2	Access Point			
3	Router/Firewall			
4	Core Switch			
5	Access PoE Switches			#
6	Lan Cables			
7	Others (please specify)			
8				
9				
10				

以上項目編號1-7設備必須符合附件Part X規格

本公司 /本人明白,如收到學校訂單後未能供應款 須負責賠償學校從另處採購上述物品的差價。	Q標書上所列物品,
供應商名稱:	公司印鑑
獲授權簽署投標書的代表姓名及簽署	
姓名(請以正楷填寫):	簽署:
日期:	-
註:服務規格必須符合香港政府現行之法例、標準	書、指引及法定責任。

Page 4

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附件:

PART X -Wi-Fi REQUIREMENTS SPECIFICATION

1. Introduction

The Contractor is invited to

- Build up a Wi-Fi network in Jockey Club Man Kwan EduYoung College (The School);
 and
- Provide and maintain a Wi-Fi service through subscription mode.

2. Background

The School will **enhance** / **top up** the IT infrastructure so as to set up the necessary Wi-Fi environment in the school premises (full Wi-Fi coverage in ALL classrooms) for supporting e-learning in class. Regarding the enhancement of Wi-Fi infrastructure, we would like to hire a contractor to design, build, operate and maintain the whole infrastructure; and to pay for the service by subscription thereafter, through a **subscription** model.

3. User Requirements

This section specifies the user requirements of the School of the Wi-Fi network. The Contractor shall be capable of supporting the requirements set out below.

3.1 Standard Provision

- Wi-Fi Internet Connectivity use Wi-Fi 6 network or above in a standard classroom.
 The minimum number of classrooms to be covered shall be at least equal to the number of approved classes for the 2024/25 school year, that is 25 classrooms.
- Number of Concurrent Connection commensurate with the maximum number of students, say 40, in a class with at least 2.5Mbps upload / download bandwidth per connection
- Number of classrooms using Wi-Fi concurrently At least 2(two) classrooms
- Authentication Method use 802.1x standard based authentication and Hong Kong Education City single sign-on services.
- Session Control —Hong Kong Education City authentication service can support one device or multiple devices to connect based on user group (student, teachers).

- Internet Content Filtering Service Cloud based Internet Content filtering profile in Hong Kong commonly adopted by most schools with ability to create Black / White list filters and managed by vendors and school.
- Existing Network Facilities not rely on any existing network facilities and cabling of the School, nor interfere with the existing Wi-Fi network of the School. The Wi-Fi network shall be physically separated from the school network
- Broadband Network use separate broadband for the Wi-Fi service. State otherwise if the existing broadband can be utilized for the service.
- Managed Service operate the Wi-Fi network using managed service model, provide end-to-end service with single point of contact including configuration, provisioning of service, proactive monitoring, maintenance and regular reporting.
- Service Level Agreement ensure at least 99.7% availability of the Wi-Fi service, support four-hour response time and four-hour service recovery with active monitoring, helpdesk support with support hours from Mon to Sat 8:00 am to 6:00 pm, and provide monthly monitoring reports for the School.
- Contract End Arrangement All provisions of trunks, conduits, cables, LAN ports
 and power points shall be considered as fixture of the School and shall become the
 property of the School. The Contractor shall remove or keep those provisions according
 to the instruction of the School. Contractor can remove the network equipment such as
 switch, routers, and access points.

3.2 Add-on Service (to be aligned with Part Y)

- Wi-Fi coverage to include special rooms and open areas
- Broadband Service provide at least 500Mbps Internet connection at school and allowing upgrade to 1Gbps
- Authentication Method Authentication method shall includes WPA2 Enterprise, WPA3, OAuth 2.0 and well as MAC address filtering and user account system being used by school, etc.
- Session Control Guest Landing page shall support session control where access time can be changed by school
- WLAN system access control specific request on MAC address filtering.
- MAC Address Monitoring The lists of filtering and filtered MAC addresses are to be monitored by the Contractor or the School
- Internet Content Filtering Service Cloud base Internet Content filtering profile in Hong Kong commonly adopted by most schools with ability to create Black / White list

filters and managed by vendors and school.

- Integration of networks system integration with existing network with secure design.
- Internet addresses subscription & configuration for Internet access to school internal resources, via system integration
- Monitoring of Wi-Fi network specific request on monitoring of Wi-Fi network by the Contractor and the School.
- Redundancy increase the availability of the Wi-Fi service.
- Support hours extended support hours and/or reduced time for recovery, the SLA must be 4 hours response and 4 hours onsite
- Contract End Arrangement Other arrangements

3.3. Deliverables

- 3.3.1 The Contractor is required to provide the following deliverables for the Wi-Fi network design:
- Master Activity Plan
- Network Configuration Report and Network Diagram
- Network Test Plan and Network Test Result Report
- Operation Manual for End User
- User Acceptance Test Plan
- Exit Plan
- 3.3.2 The Contractor is required to provide the monthly monitoring report with the following items:
- Network Health Report
- Network Usage Report
- Reporting of security incidents
- Reporting on trend and statistics of incident and their analysis
- Reporting of the failure rate for all equipment with detailed fault analysis
- Problem log and incident log for critical failure of the network
- Statistical report on the type and no. of calls
- Summary of the outstanding enquiry for the month-to-date

4. Technical Specification (Standard Provision)

4.1 Wi-Fi Network

- 4.1.1 The Wireless LAN (WLAN) System of the Wi-Fi network shall support simultaneous dual-operation-mode that is FAT Access Point (AP) and Thin Access Point are both supported together with WLAN Controller. WLAN Controller shall be capable of fully centralized provisioning, configuration and monitoring all APs functionalities; a backup of the WLAN Controller shall be available.
- 4.1.2 The thin client WLAN Access Point (AP) shall be a high performance wireless network access device, which shall be connected with the Power over Ethernet (PoE) Access Switches via Structured Cabling System. Appropriate type of connection cables between WLAN APs and the antenna shall be provided.
- 4.1.3 The WLAN APs shall be compatible on both Wi-Fi 5 & Wi-Fi 6 with IEEE 802.11a/b/g/n/ac wave2/ax standard or above, support dual band of minimum 2x2:2 in 2.4GHz and 2x2:2 in 5GHz as well as OFDMA, MU-MIMO and Internal antennas.
- 4.1.4 The Contractor shall design the WLAN System to provide the coverage for the required wireless coverage place. The received signal strength measurement from the Wi-Fi Service at the Wi-Fi client device (such as tablet PC or notebook computer) is no worse than -68 dBm. The Contractor shall provide certificate or test report to illustrate that the Wi-Fi client device for testing satisfies the power emission requirement.
- 4.1.5 The WLAN AP shall support DHCP, PoE, WPA2, IEEE 802.1x and certificate authentication.
- 4.1.6 The WLAN System shall support automatic channel selection, protocol filtering, multicast/broadcast storm filtering and load balancing.
- 4.1.7 The WLAN system shall allow single or multiple devices per user account to be authenticated using 802.1x and Hong Kong Education City single sign-on service.
- 4.1.8 Each WLAN AP shall be able to support at least concurrent 40 users connecting to the network simultaneously. In no circumstance shall the speed of data transmission symmetrically fall below the data rate requirement at any place or any corner or any highly congested area within the areas being covered. In case the transmission speed is below the said data rates, the Contractor shall be responsible for all remedial measures to rectify or

configure fine-tuning of antenna or even increase the quantity of the WLAN AP at Contractor's own costs in order to meet the data rate requirement as mentioned in the Specification. A complete set of catalogues with brand and model shall be submitted and highlighted for reference. The catalogues shall show all the features and technical specifications of the products and systems.

- 4.1.9 The system shall provide bandwidth control per connection.
- 4.1.10 The WLAN shall allow different authentications by using Service Set Identifiers (SSIDs).
- 4.1.11 The SSIDs shall be able to be set hidden from searching by Wi-Fi devices. The devices have to manually set SSID to make connection.
- 4.1.12 Individual APs shall be allowed to be assigned by more than one SSIDs.
- 4.1.13 Antennas of APs shall be capable of detecting user locations in real time for direction switching while devices in motion.
- 4.1.14 The DHCP server shall support at least 30 queries/sec.
- 4.1.15 The WLAN system shall suspend the session of the user once the session control is expired and the suspension time shall be configured by the school.
- 4.1.16 The Contractor shall in provision of the service comply with non-interference requirements of and shall not cause interference prohibited under the Telecommunication Ordinance (Cap 106) or any other laws or regulation of Hong Kong.
- 4.1.17 The WLAN System shall provide termination of idle sessions and control of the duration features.
- 4.1.18 The WLAN System shall support client roaming across Access Points.
- 4.1.19 The WLAN system shall cover all areas specified under this tender.
- 4.1.20 The quotation shall include the cost to provide sufficient quantity and its cabling work

required, including but not limited to supply and install the Fibre optics, Cat 6 cable, Conduit, cable patch panel, cable faceplate, Cable patch cord.

- 4.1.21 The Contractor shall provide complete set of WLAN Systems which consist of Wireless Access Point, Connection Cable, Authentication System, Wireless LAN Controller, PoE Switch, horizontal UTP Cat 6 cable/OM3 Fiber, patch cable UTP Cat 6 / OM3 Fiber Optics, any required license and all associated accessories.
- 4.1.22 All access points (AP) shall be certified by OFCA and copy of certificates issued by OFCA shall be attached to the proposals.
- 4.1.23 The Contractor shall ensure that there is no interference between WLAN Access Points due to limited non-overlapping channels assignment when the WLAN AP is installed. The Contractor shall be responsible at his own costs for providing solution to eliminate the interferences including but not limited to reassignment of the non-overlapping channels, adding extra APs with lower transmission power and/or replacement of the WLAN AP.
- 4.1.24 The WLAN System shall support Web GUI management.
- 4.1.25 FTP service shall not be allowed in the Wi-Fi network (to avoid exchanging credential and files in plain text without any encryption).
- 4.1.26 The WLAN System deployed shall be non-Asian band.

4.2 Core Switch

- 4.2.1 The Core Switch would be responsible for connecting all PoE access switches in typical floors for WLAN AP.
- 4.2.2 The Core Switch shall be capable of providing the required bandwidth, QoS, and policy-based routing to carry all sorts of information including video, voice, data, image, etc.
- 4.2.3 Each Core Switch shall provide a Gigabit Ethernet connection to each PoE Access Switch in typical floors.
- 4.2.4 The Core Switch shall support Layer 2 and Layer 3 switching and capable of providing

the wired speed performance.

- 4.2.5 The Core Switch shall support basic IP unicast routing protocols, Static route, Routing Information Protocol (RIPv1, RIPv2), inter VLAN routing.
- 4.2.6 The Core Switch shall support Internet Group Management Protocol (IGMP) snooping and multicast and unicast storm control, Spanning-Tree Protocol.
- 4.2.7 The Core Switch shall support WebGUI Management, Access Control Lists (ACLs), DHCP Interface and SNMP.
- 4.2.8 The Core Switch shall support VLANs including support for IEEE 802.1Q and IEEE 802.1p.

4.3 PoE Access Switch

- 4.3.1 The Access Switches shall be deployed to provide high performance interconnectivity between the Core Switches and the WLAN APs on typical floor and support Cloud-based management
- 4.3.2 The Access Switch shall consist of 8/12/24/48 x 10/100/1000Base-T Ethernet ports, with minimum of 1 x 1000Base-T / 1000Base-SX SFP Gigabit Ethernet uplink ports connected with the Core Switch.
- 4.3.3 The Access Switch shall be used for connecting the WLAN APs. The Contractor shall determine the Maximum power loading of the devices to be connected with the PoE Access Switches. The Contractor shall provide additional PoE Access Switch(es) if the total power loading summed up from the PoE devices exceeds the maximum power loading capacity of the PoE Access Switch.
- 4.3.4 The Access Switches shall support VLAN configuration.
- 4.3.5 The Access Switches shall be at wired speed.
- 4.3.6 The Access Switches shall be provided sufficient port density to meet all the required links.

- 4.3.7 The Access Switches shall support PoE and shall conform to IEEE 802.af / IEEE 802.3af standard, which delivers power over single copper UTP cable for WLAN AP.
- 4.3.8 The Access Switches shall support Internet Group Management Protocol (IGMP) snooping and multicast and unicast storm control, IEEE 802.1D Spanning-Tree Protocol.
- 4.3.9 The Access Switches shall support Virtual local area network (VLANs) including support for IEEE 802.1Q and IEEE 802.1p.
- 4.3.10 The Access Switches shall support WebGUI Management, Access Control Lists (ACLs), DHCP Relay and SNMP.

4.4 Firewall

- 4.4.1 The performance of the Firewall shall not be degraded with 100% Internet bandwidth utilization.
- 4.4.2 Network Address Translation (NAT) is required.
- 4.4.3 Access Control Policy, Content filtering and Anti-Malware services are required.
- 4.4.4 The configuration settings of the appliance shall be allowed to export to files for backup and restore for rapid recovery and shall control all incoming and outgoing Internet traffic, serving as the sole entry and exit point between the Internet and the WLANs in all locations.
- 4.4.5 The configuration settings of the appliance shall support blocking specific network ports, including ports of Transmission Control Protocol (TCP) and User Datagram Protocol (UDP). Blocking denial of service (DoS) attacks and malformed packet attacks shall also be configured.
- 4.4.6 The firewall policy should be applied to control network traffic such that public users should be prohibited to access the internal network segments of the School.

4.5 Service Requirements

- 4.5.1 The Contractor shall be responsible for the total project management and shall assign a person to act as the single contact point to the School regarding all related activities of the contract. This single contact point cannot be transferred to a sub-contractor unless explicitly agreed by the School. Contractor should formally inform the School in writing if there is a change of contact point.
- 4.5.2 The Contractor shall provide rack/cabinet or use existing school rack if there is available rack space. All switches/firewall shall be properly installed into wall mounted cabinet or rack.
- 4.5.3 Cables shall be labelled with connected port and its device id.
- 4.5.4 All the equipment shall be labelled with an identifiable id.
- 4.5.5 The placement of cables, cabinets, racks and appliances shall be shown on the network diagram.
- 4.5.6 Switches and/or other appliances shall be properly installed into cabinet/rack with appropriate ventilation.
- 4.5.7 13A power cord(s) shall be bundled with appliance(s).
- 4.5.8 Cable shall be properly set up onto appropriate cable management guide.
- 4.5.9 Contractor should make sure that the actual environment is suitable for the installation and operation of equipment with School agreement in advance, and make necessary suggestions, if any.

4.6 Service Level Requirements

- 4.6.1 The Contractor shall provide incident/problem report to the School within 5 working days after each incident and the resolution taken.
- 4.6.2 The Contractor shall derive mechanism, including forms and reference tables for measuring and recording the Service Level Measures, to ease the administration and

monitoring by the School.

- 4.6.3 Advance notice by at least 2 weeks shall be given to the School prior to all scheduled maintenance. At most 4 scheduled maintenances per year are excluded from the calculation of Service Levels. No more than 1 hour service interruption or an agreed time slot is accepted for each scheduled maintenance.
- 4.6.4 Service Level, expressed in percentage, is the ratio of actual available time to the scheduled available time for the Wi-Fi network of the School and is calculated according to the following formula:

Service Availability Level = (Schedule Uptime within the month— Unscheduled Downtime within the month) / Scheduled Uptime within the month, where

Scheduled Uptime: The duration, in unit of minutes, for the Wi-Fi network of the School is scheduled to be available for the month. The duration will exclude the scheduled downtime, which is defined as duration agreed between the School and the Contractor during which the service may be deliberately made unavailable to users.

Unscheduled Downtime: The amount of time, in unit of minutes, that the service are unavailable due to equipment failure or other reasons under the responsibility of the Contractor.

4.7 Service Level Rebates

- 4.7.1 The Service Rebates to the School operate as liquidated damages for the performance fallen short of the target service levels over a period of one month. The service measures stipulated in 4.6 will be used to determine the Service Rebates in Service Availability (S1) and Service Resumption Time (S2).
- 4.7.2 The application of the Service Level Rebates adjustment to the monthly charge will commence with effective from the acceptance of the reliability test.
- 4.7.3 For each month, the Service Rebates for different service measures (S1, S2) will be calculated as below if the Contractor cannot meet the target Service Levels for the Wi-Fi network of the School under the availability agreed:

Failure Hour x [(Yearly Subscription Fee) / (365 x 24)] x 2, where

Failure Hour: The unscheduled downtime or the time to resume the network due to the failure of hardware or software which is provided by the Contractor. Failure Hour is calculated in the increment of 0.5 Hour.

4.7.4 The Service Rebates of the Wi-Fi network of the School, if any, will be paid by crediting the invoice of the following month.

4.8 Helpdesk Service

- 4.8.1 The Helpdesk Service shall maintain dedicated hotline, including phone, email and fax, for enquiries and complaints.
- 4.8.2 The Helpdesk Service shall answer enquiries and complaints originated from the School concerning the Service.
- 4.8.3 The Helpdesk Service shall operate from Mon to Sat 8:00 am to 6:00 pm.
- 4.8.4 The Helpdesk Service shall maintain call logs on enquiries and complaints. The information shall be included but not be limited to date, time, description of issues, contact information, and follow-up actions. The Contractor shall observe and comply with Personal Data (Privacy) Ordinance in handling all information relating to these enquiries and complaints.
- 4.8.5 The Contractor shall provide the following information concerning the Helpdesk service related to the implementation of the Service:
- Detailed information of the helpdesk office, such as address, phone number, fax number;
 and
- Facilities, computer systems and equipment provided in the helpdesk office, such as private branch exchange (PBX), keyline telephone system (KTS), interactive voice response system (IVRS) and voice recording system.
- 4.8.6 The Contractor shall provide helpdesk staff with the necessary tools, including but not limited to hardware and software, related training for supporting the Service.

4.8.7 The Contractor shall not make use of the Helpdesk Service to transmit any message or conduct any activity to the School, which is not connected with the provision of the Service. The School shall have the full discretion to determine whether any such message or activity is in breach of this provision. The Contractor shall forthwith stop transmitting such message or conducting such activity and refrain from doing it further once the School has notified the Contractor in writing or verbally of its determination.

4.9 User Acceptance Test

- 4.9.1 The Contractor shall conduct tests with the School before the service is officially accepted and subscription started. Tests shall include User Acceptance Test for reliability and performance of the hardware and software, and also the monitoring, operation support and all other aspects related to the Service Level Agreement of the Service. At least 14 school working days of trial period is expected for service monitoring after testing.
- 4.9.2 The contractor will be required to perform test making reference to the User Acceptance Test and System Test documents at www.edb.gov.hk/ited/wifi900. They include the types of testing to be performed, the requirements to be tested, the testing environment, testing tools and pass/fail criteria as reference to the Contractor.
- 4.9.3 The Contractor shall upon request by the School arrange briefings to the School and/or Responsible Parties of the School, with briefing materials, prior to the User Acceptance Test when required.
- 4.9.4 The Contractor shall provide detailed acceptance test plan and a step by step testing procedure with expected results against the requirements set out in this specification.
- 4.9.5 The Contractor shall provide, configure and set up the proper software and hardware for the School to carry out the User Acceptance Test.
- 4.9.6 The Contractor shall be required to carry out tests to demonstrate that the equipment and system meet the specification and other contractual requirements. The Contractor shall also be responsible for the timely preparation and compilation of all test schedules, test procedures and test reports.
- 4.9.7 The Contractor shall follow the agreed standards as laid down in this specification for

the testing methods and procedures.

- 4.9.8 The Contractor shall submit a schedule of site performance and commissioning tests at least 3 working days prior to the commencement of the scheduled commissioning date.
- 4.9.9 Special tools, test equipment, test objects and simulators required for the demonstration of either bench or commissioning tests shall be made available by the Contractor at no extra charge to the School.
- 4.9.10 All test equipment used by the Contractor shall be properly and periodically calibrated. Measuring standards used in calibration shall be traceable to international or national measurement standards, or to an industry recognized manufacturer's reference, subject to approval of the School.
- 4.9.11 Calibration procedures and results shall be documented and signed by certifying body where applicable. The Contractor may be requested to show evidence of calibration of test equipment by submission of copies of these calibration records prior to conduction of any tests.
- 4.9.12 The Contractor shall submit the User Acceptance Test report within 3 working days. The acceptance of the installation will only be granted after receiving a satisfactorily UAT report from the Contractor.
- 4.9.13 All equipment to be installed may be subject to inspection and bench testing. The Contractor shall meet the cost of deliveries for bench test. Notwithstanding, the Contractor shall have carried out the tests in accordance with the requirements and procedures stipulated in this specification and submitted the associated test reports for inspection.

4.10 Termination of Service

- 4.10.1 The School reserves the right to terminate all or part of the Service at any time with written notice of 10 working days in advance if:
- The Contractor fails to meet the target service levels under Service Level Requirements for two consecutive months, or three months in total within the committed subscription period;
- The School suspects that unauthorized activity has occurred or is occurring in relation to

the Service;

- The provision of the Service will cause the School to be in breach of any applicable law;
- 4.10.2 The Contractor shall provide to the School and implement the Exit Plan in accordance with:
- The Contractor shall provide to the School an Exit Plan with feasible arrangements before the committed subscription contract date;
- If the School considers the Exit Plan as not satisfactory, it will notify the Contractor with comments. The Contractor shall revise the Exit Plan by taking into consideration of the School's comments and provide to the School with five (5) working days after the date of receiving the School's comments. If the Exit Plan has been considered as not satisfactory for three or more times, the School shall have the right to terminate this Contract by giving 10 days' notice in writing;
- Detailed exit procedures, disengagement timetable and actions to be taken by both the Contractor and the School for smooth termination of all or any part of the Service;
- The Exit Plan shall aim at enabling the School or its authorized parties to perform in substitution for the Contractor and to eliminate or minimize any disruption or deterioration of the Service. The Exit Plan shall contain, but not limited to the following information:
 - Detailed exit procedures, disengagement timetable and actions to be taken by both the Contractor and the School for smooth termination of all or any part of the Service;
 - Any information that is necessary for the School or a new service provider to continue the provision of the Service;
 - Details of the Contractor's personnel and other resources that will assist the School or the School's authorized parties during the handover;
 - All provisions of facilities such as trunks, conduits, cables, LAN ports and power points, shall be considered as fixture of the School venues and shall become the property of the School. The Contractor shall remove or keep those provisions according to the instruction of the School. Contractor can remove the network equipment such as switch, routers, and access points.
- The Contractor shall be responsible for the implementation and execution of the Exit Plan and shall ensure that the exit plan is carried out in a timely and orderly manner.

5. Technical Specification (Add-on Requirement)

6. Wi-Fi.HK (optional service)

- 6.1 The implementation of Wi-Fi.HK is advocated by the School, the decision of the implementation will not be served as a basis of discrimination for proposal evaluation.
- 6.2 To make it easier for the public and visitors to access free Wi-Fi services in Hong Kong, the Government is promoting the free Wi-Fi services offered by the public and private sectors in Hong Kong under a common Wi-Fi brand "Wi-Fi.HK". It will help the public and visitors find and connect to the public Wi-Fi hotspots throughout Hong Kong. These free hotspots will be promoted under the Wi-Fi.HK brand through various means such as the Wi-Fi.HK thematic website and mobile app. With a common brand in place, it will create more business opportunities for the Wi-Fi.HK participating organizations to promote and deliver their products and services to their customers by leveraging on mobile technologies.
- 6.3 Contractor is invited to provide free Wi-Fi service riding on the same Wi-Fi network infrastructure using the Wi-Fi.HK SSID for school visitors such as parents to access the Internet in schools and such services shall incur no additional charge to the School.
- 6.4 The following are the requirements of the Wi-Fi.HK scheme:
- Aggregated total of at least 30 minutes free access time per day per device;
- Service available 24 hours x 7 days or as long as the venue is accessible to the user;
- All Access Points providing public Wi-Fi service be registered with OFCA;
- SSID of Access Points be presented in "Wi-Fi.HK via <designated name of service provider>" format;
- Landing page with Wi-Fi.HK logo, terms and conditions and disclaimers for user to accept for connection but no need for user to login using username or password;
- Hotline service, contact email or on-site support be provided for public enquiry and technical support; and
- Preferably with installation of digital server certificate issued by recognized certificate authority on the landing page so that users can easily discern the legitimacy of the Wi-Fi services.
- 6.5 The network for supporting Wi-Fi.HK shall not be allowed to have direct access to the School's network. Connections via Wi-Fi.HK shall have access to the Internet only.
- 6.6 Content filtering is not a requirement for Wi-Fi.HK.

- 6.7 When the School terminates all or part of the Service, the Wi-Fi.HK service of the related area will be terminated together. The School also reserves the right to request the Contractor to terminate or suspend the Wi-Fi.HK service at any time.
- 6.8 More details of the scheme can be found at Wi-Fi.HK thematic website (http://www.wi-fi.hk).

7. Sub-Contracts

- 7.1 The Tenderer shall be the prime Contractor for all the services specified in Part X and Part Y of this contract. The Tenderer shall be the single point of contact for all contractual matters.
- 7.2 The Tenderer shall be liable for the performance or breach of any provisions of the contract by Sub-Contractors.
- 7.3 The Tenderer shall provide details of the sub-contract service for the Wifi operation and maintenance of the Sub-Contractors in the format listed on Section 5 of Part Y. The hierarchy of the sub-contracting shall also be clearly stated below. If there are no Sub-Contractors, please enter nil.
- 7.4 No Sub-Contractor(s) specified in Section 5 of Part Y shall be replaced unless prior written consent has been given by the School.
- 7.5 The Tenderer shall ensure that the quality of the service rendered by the Tenderer shall not be affected due to any change of Sub-Contractors;
- 7.6 The Tenderer shall not be relieved from any of its obligations hereunder by entering into any sub-contract for the performance of any part of this contract. If request by the School, the Tenderer shall describe which part of the service shall be performed by the Sub-Contractor(s) in the sub-contract(s) between the tenderer and its Sub-Contractor(s).

8. Schedule of Work

8.1 The Contractor shall provide the service according to the following schedule.

Phase	Items	Starting Date	Ending Date	Service fee
Ι	Build up of WiFi network	On or before Feb 2025	3 Mar 2025	0
II	Subscription of service	4 Mar 2025	3 Mar 2028	Quoted price
			3 Mar 2028	Quoted price

9. Delay of Schedule

- 9.1 If the Contractor fails to provide any part of the WiFi service which shall be ready for use in the School within 60 days after the target Ending Date specified in Section 8 of Schedule of Work then notwithstanding anything else contained in this Contract the School shall be entitled to terminate this Contract with forthwith by giving written notice to the Contractor and to recover from the Contractor the amount of all damages and loss suffered by the School resulting from such failure, including without limitation to any damages and loss resulting from the termination of related service orders.
- 9.2 Within one (1) week of the termination of this Contract, the Contractor shall collect its own Hardware and Software at his own cost after the contractor has removed the School Data in the Hardware.
- 9.3 The Contractor shall reinstate and make good the concerned area of the School to the satisfaction of the School after removal of the hardware.

10. Terms of Payment

10.1 The subscription will be paid in arrears of each month during the subscription period.

11. Price Proposal

11.1 The Service Provider is required to provide a breakdown on the service charges for each of the service items as set out in the Price Proposal at PART Y - PRICE SCHEDULE. Failure in complying with this requirement will render the quotation disqualified.

- 11.2 Please note that, the School has the absolute discretion to accept the whole of the Services or just part of the Services as listed out by items in the Price Proposal.
- 11.3 Set up cost will not be considered as a part of the cost in subscription mode.

12. Invitation for Quotations

- 12.1 Quotations are invited for the execution of the whole of the Services as described in this document. Quotations for part but not all of the Services will not be considered.
- 12.2 Please provide two sets of quotation documents for processing of the quotation.

13. Tender Preparation and Submission

- 13.1 The Service Provider is required to submit the following information and document.
- A Statement of Compliance to provide response that the quotation complies with all requirements stated in this Specification.
- Price Schedule
- No upfront cost or one off cost schools shall be paid throughout the entire subscription period.
- Proposed AP location mark on the Floor plan.
- Proposed Network infrastructure show on the Network Diagram.
- Implementation Plan.
- Wi-Fi Access Point certificates issued by OFCA.
- Product information including technical and descriptive literature and catalogues.
 Information provided by the manufacturer shall be able to substantiate that the products offered meet the mandatory Technical Specification.

14. Briefing Session/Site Visit

14.1 To facilitate the Service Provider to propose the quotation, a briefing session is arranged as follows. The Service Provider must attend the briefing session and carry out WiFi survey with appropriate tools.

15. Selection and Payment

School is looking for a contractor based on the following criteria

- Proposed pricing
- Proposed solution
- Equipment and services level
- Case reference
- Other useful information

16. Enquiry

For enquiry, please contact Mr. Ku Man Chung(IT) of the School at kumc@jcmkec.edu.hk or by phone at 24472322.

PART Y - PRICE SCHEDULE

1. Price details for Standard Provision

Standard Provision	3 years		School's choice on confirmation
	Monthly price Annual price	Annual price	
WiFi Service Subscription Total number of APs: 31 (Room109, 111, 202, 203, 204, 205, 206, 207, 208, 302, 304, 306, 402, 403, 404, 405, 406, 407, 408, 502, 503, 504, 505, 508, 602, 603, 604, 605, 606, 607, 608)		N.	
(Requirement as stated in Part X)			
Total in HK\$			

2. Price details for Add-on Services (Offer will be considered on itemized basis)

Add-on Service		3 years		School's choice on confirmation
Item	Description	Additional monthly price	Additional annual price	
WiFi coverage for other areas	Provide APs for other areas(total 24 APs):Room 613, 615, 506, 513, 515, 414, 416, 311, 313, 303A, 303B, 303C, 213, 217, 116, 118, 102, 104, Hall A, Hall B, G02, Library, 雨天燥場, 接待處			

Add-on Service		3 years		School's choice on confirmation
Item	Description	Additional monthly price	Additional annual price	
Broadband service	Defined in Part X			
Number of	Defined in Part X			
Concurrent	(AP in library			
Connection	should support at least 80 users)			
Authentication	Defined in Part X			
Method				
Session Control	Defined in Part X			
WLAN Access Control	Defined in Part X			
Internet Content Filtering Service	Defined in Part X			
Integration of networks	Defined in Part X			

Add-on Service		3 years		School's choice on
Item	Description	Additional monthly	Additional annual price	сопигшаноп
Internet addresses subscription & configuration	Defined in Part X			
Monitoring of WiFi network	Defined in Part X			
Redundancy	Defined in Part X			
WiFi Service Recovery	Defined in Part X			
Support hours	Defined in Part X			
Reporting	Defined in Part X			
Contract End Arrangements	Defined in Part X			

3. Wi-Fi.HK Service

Wi-Fi co	verage are	a of W	Wi-Fi coverage area of Wi-Fi.HK :		兩天操場, 接待處.
Will you	Will you provide free Wi-Fi.F	free	Wi-Fi.HK	service	Y/N (to be input by Contractor)

4. Details of equipment to be proposed in the Buildup of WiFi network in the School

Items	Quantity	Model
WiFi Controllers		
Access Points		
Router/Firewall		
Core Switch		
Access PoE Switches		
LAN Cables		
Others (please specify)		

the project implementation, service operation and maintenance in the format listed below 5. The Tenderer to provide details of the sub-contract service involved in the proposal for

Sub-Contractor service	service	TOTOS ALIGIDADES DOUBLES

The Tenderer to provide case reference of past deployment in WiFi100/WiFi900 with Sub-Contractors details in the format listed below 9

onsibility	,			
Roles and responsibility	•			
Sub-contract service				, a
Name of	Sub-Contractor			
Name of School				

7. A floor plan (provided by the School) is attached.

Annex: Floor Plan of the School



SUPERVISOR:
Prof. TAM MAN KWAN
Ph.D., B.H., B.B.S., J.P.
校監: 認萬鈞敦授·太平紳士
PRINCIPAL:
Ms. CHAN YIN YIN(MA)
校長: 田盈盈女士(文學碩士)

賽馬會萬鈞毅智書院 承投提供租賃無線網絡服務投標書

不擬投標通知書

如 貴公司未能提供服務或產品,請填妥此表格後,並連同所有文件 寄回新界元朗天水圍天榮路 5 號(天頌苑) 賽馬會萬鈞毅智書院

學校檔	號: <u>JCMKE</u>	C- 24250)12							
承投:	提供租賃無	線網絡用	及務投標	整						
截標日	期及時間:	2025 生	E 2)	∄ 28	日(星	期五) 中华	于十二時正		
有關 上 〈)	貴校邀請本	公司承担	及以上服	務,瑪	因以下	理由未創	走承投	,特此回覆	。 (請在適當的口	内加
	未能提供標	書所示	服務/產。	品						
	未能達到標	書所示	要求或规	見格						
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	其他(請註明	月)								
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					В	벬				

地址:新界元朗天水圆天榮路5號

Address: 5 Tin Wing Road, Tin Shui Wai, Yuen Long, N.T.

公司印鑑

網址 / Website: www.jcmkec.edu.hk

電郵 / E-mail Address : eduyoung@jcmkec.edu.hk

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條直 / Fax: (852) 2447 3058



SUPERVISOR: Prof. TAM MAN KWAN Ph.D., B.H., B.B.S., J.P. 校鹽: 觀萬鉤教授·太平紳士

PRINCIPAL:

Ms. CHAN YIN YIN(MA) 校長:田盈盈女士(文學碩士)

承投 賽馬會萬鈞毅智書院 提供租賃無線網絡服務 投標表格

學校名稱及地址:賽馬會萬鈞毅智書院 新界元朗天水圍天榮路5號(天頌苑)

學校檔號:_JCMKEC-2425012

截止報價日期/時間: 二零二五年二月二十八日中午十二時正(以投入學校標箱時間計算)

第I部分

下方簽署人願意按照所列的價格(其他費用全免),以及校方提供的任何圖則/樣本/或規格,供應夾附的投標附表上所列的全部或部分項目。下方簽署人知悉,投標書由上述截止報價日期起計90 天內仍屬有效;校方不一定採納索價最低的投標書或任何一份投標書,並有權在投標書有效期內,採納某份投標書的全部或部分內容。下方簽署人亦保證其公司的商業登記及僱員補償保險均屬有效,而其公司所供應的各個項目並無侵犯任何專利權。

第Ⅱ部分

再行確定投標書的有效期

有關本投標書的第I部分,現再確定本公司的投標書有效期由<u>二零二五年二月二十八日中午十二</u> <u>時正</u>起為期90天。

下方簽署人亦同意,投標書的有效期一經再行確定,其公司就該事項註明於投標表格內的預印條文,即不再適用。

第Ⅲ部分

維護國家安全

下方簽署人確認即使招標文件中有任何相反的規定,學校保留以其公司曾經、正在或有理由相信 其公司曾經或正在作出可能構成或導致發生危害國家安全罪行的行為或活動為由,取消其公司資格的 權利,又或為維護國家安全,或為保障香港的公眾利益、公共道德、公共秩序或公共安全,而有必要 剔除其公司。

下方簽署人確認若出現下列任何一種情況,學校可以立即終止合約:

- (i)其公司曾經或正在作出可能構成或導致發生危害國家安全罪行或不利於國家安全的行為或 活動;
- (ii)繼續僱用其公司或繼續履行合約不利於國家安全;或
- (iii) 學校合理地認為上述任何一種情況即將出現。

銜 (請註明職位):
公司印鑑:

Page 3

地址:新界元朗天水園天榮路5號

Address: 5 Tin Wing Road, Tin Shui Wai, Yuen Long, N.T. 電源

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SUPERVISOR: Prof. TAM MAN KWAN Ph.D., B.H., B.B.S., J.P. 校監: 諏篤鈞教授・太平紳士:

PRINCIPAL:

Ms. CHAN YIN YIN(MA) 校長:田盈盈女士(文學碩士)

投標附表

承投 賽馬會萬鈞毅智書院 提供租賃無線網絡服務投_的投標項目

(1) 項目 編號	(2) 項目說明 /規格	(3) 所需數量	(4) 單價(元)	(5) 總價(元)
1	WiFi Controllers			
2	Access Point			
3	Router/Firewall			
4	Core Switch			
5	Access PoE Switches			
6	Lan Cables			
7	Others (please specify)			
8				
9				
10				

以上項目編號1-7設備必須符合附件Part X規格

木八司 /木人明白, 如收到學校訂聞後去能供僱投標書上所別物品,

須負責賠償學校從另處採購上述物品的差價。	13,2,7,7,7,7,3,10
供應商名稱:	_ 公司印鑑 (
獲授權簽署投標書的代表姓名及簽署	
姓名(請以正楷填寫):	簽署:
日期:	
註: 服務規格必須符合香港政府現行之法例、標	(準、指引及法定責任。)

Page 4

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傳真 / Fax : (852) 2447 3058

附件:

PART X -Wi-Fi REQUIREMENTS SPECIFICATION

1. Introduction

The Contractor is invited to

- Build up a Wi-Fi network in Jockey Club Man Kwan EduYoung College (The School);
 and
- Provide and maintain a Wi-Fi service through subscription mode.

2. Background

The School will **enhance** / **top up** the IT infrastructure so as to set up the necessary Wi-Fi environment in the school premises (full Wi-Fi coverage in ALL classrooms) for supporting e-learning in class. Regarding the enhancement of Wi-Fi infrastructure, we would like to hire a contractor to design, build, operate and maintain the whole infrastructure; and to pay for the service by subscription thereafter, through a **subscription** model.

3. User Requirements

This section specifies the user requirements of the School of the Wi-Fi network. The Contractor shall be capable of supporting the requirements set out below.

3.1 Standard Provision

- Wi-Fi Internet Connectivity use Wi-Fi 6 network or above in a standard classroom.
 The minimum number of classrooms to be covered shall be at least equal to the number of approved classes for the 2024/25 school year, that is 25 classrooms.
- Number of Concurrent Connection commensurate with the maximum number of students, say 40, in a class with at least 2.5Mbps upload / download bandwidth per connection
- Number of classrooms using Wi-Fi concurrently At least 2(two) classrooms
- Authentication Method use 802.1x standard based authentication and Hong Kong Education City single sign-on services.
- Session Control –Hong Kong Education City authentication service can support one device or multiple devices to connect based on user group (student, teachers).

- Internet Content Filtering Service Cloud based Internet Content filtering profile in Hong Kong commonly adopted by most schools with ability to create Black / White list filters and managed by vendors and school.
- Existing Network Facilities not rely on any existing network facilities and cabling of the School, nor interfere with the existing Wi-Fi network of the School. The Wi-Fi network shall be physically separated from the school network
- Broadband Network use separate broadband for the Wi-Fi service. State otherwise if the existing broadband can be utilized for the service.
- Managed Service operate the Wi-Fi network using managed service model, provide end-to-end service with single point of contact including configuration, provisioning of service, proactive monitoring, maintenance and regular reporting.
- Service Level Agreement ensure at least 99.7% availability of the Wi-Fi service, support four-hour response time and four-hour service recovery with active monitoring, helpdesk support with support hours from Mon to Sat 8:00 am to 6:00 pm, and provide monthly monitoring reports for the School.
- Contract End Arrangement All provisions of trunks, conduits, cables, LAN ports
 and power points shall be considered as fixture of the School and shall become the
 property of the School. The Contractor shall remove or keep those provisions according
 to the instruction of the School. Contractor can remove the network equipment such as
 switch, routers, and access points.

3.2 Add-on Service (to be aligned with Part Y)

- Wi-Fi coverage to include special rooms and open areas
- Broadband Service provide at least 500Mbps Internet connection at school and allowing upgrade to 1Gbps
- Authentication Method Authentication method shall includes WPA2 Enterprise, WPA3, OAuth 2.0 and well as MAC address filtering and user account system being used by school, etc.
- Session Control Guest Landing page shall support session control where access time can be changed by school
- WLAN system access control specific request on MAC address filtering.
- MAC Address Monitoring The lists of filtering and filtered MAC addresses are to be monitored by the Contractor or the School
- Internet Content Filtering Service Cloud base Internet Content filtering profile in Hong Kong commonly adopted by most schools with ability to create Black / White list

filters and managed by vendors and school.

- Integration of networks system integration with existing network with secure design.
- Internet addresses subscription & configuration for Internet access to school internal resources, via system integration
- Monitoring of Wi-Fi network specific request on monitoring of Wi-Fi network by the Contractor and the School.
- Redundancy increase the availability of the Wi-Fi service.
- Support hours extended support hours and/or reduced time for recovery, the SLA must be 4 hours response and 4 hours onsite
- Contract End Arrangement Other arrangements

3.3. Deliverables

- 3.3.1 The Contractor is required to provide the following deliverables for the Wi-Fi network design:
- Master Activity Plan
- Network Configuration Report and Network Diagram
- Network Test Plan and Network Test Result Report
- Operation Manual for End User
- User Acceptance Test Plan
- Exit Plan
- 3.3.2 The Contractor is required to provide the monthly monitoring report with the following items:
- Network Health Report
- Network Usage Report
- Reporting of security incidents
- Reporting on trend and statistics of incident and their analysis
- Reporting of the failure rate for all equipment with detailed fault analysis
- Problem log and incident log for critical failure of the network
- Statistical report on the type and no. of calls
- Summary of the outstanding enquiry for the month-to-date
- 4. Technical Specification (Standard Provision)
- 4.1 Wi-Fi Network

- 4.1.1 The Wireless LAN (WLAN) System of the Wi-Fi network shall support simultaneous dual-operation-mode that is FAT Access Point (AP) and Thin Access Point are both supported together with WLAN Controller. WLAN Controller shall be capable of fully centralized provisioning, configuration and monitoring all APs functionalities; a backup of the WLAN Controller shall be available.
- 4.1.2 The thin client WLAN Access Point (AP) shall be a high performance wireless network access device, which shall be connected with the Power over Ethernet (PoE) Access Switches via Structured Cabling System. Appropriate type of connection cables between WLAN APs and the antenna shall be provided.
- 4.1.3 The WLAN APs shall be compatible on both Wi-Fi 5 & Wi-Fi 6 with IEEE 802.11a/b/g/n/ac wave2/ax standard or above, support dual band of minimum 2x2:2 in 2.4GHz and 2x2:2 in 5GHz as well as OFDMA, MU-MIMO and Internal antennas.
- 4.1.4 The Contractor shall design the WLAN System to provide the coverage for the required wireless coverage place. The received signal strength measurement from the Wi-Fi Service at the Wi-Fi client device (such as tablet PC or notebook computer) is no worse than -68 dBm. The Contractor shall provide certificate or test report to illustrate that the Wi-Fi client device for testing satisfies the power emission requirement.
- 4.1.5 The WLAN AP shall support DHCP, PoE, WPA2, IEEE 802.1x and certificate authentication.
- 4.1.6 The WLAN System shall support automatic channel selection, protocol filtering, multicast/broadcast storm filtering and load balancing.
- 4.1.7 The WLAN system shall allow single or multiple devices per user account to be authenticated using 802.1x and Hong Kong Education City single sign-on service.
- 4.1.8 Each WLAN AP shall be able to support at least concurrent 40 users connecting to the network simultaneously. In no circumstance shall the speed of data transmission symmetrically fall below the data rate requirement at any place or any corner or any highly congested area within the areas being covered. In case the transmission speed is below the said data rates, the Contractor shall be responsible for all remedial measures to rectify or

configure fine-tuning of antenna or even increase the quantity of the WLAN AP at Contractor's own costs in order to meet the data rate requirement as mentioned in the Specification. A complete set of catalogues with brand and model shall be submitted and highlighted for reference. The catalogues shall show all the features and technical specifications of the products and systems.

- 4.1.9 The system shall provide bandwidth control per connection.
- 4.1.10 The WLAN shall allow different authentications by using Service Set Identifiers (SSIDs).
- 4.1.11 The SSIDs shall be able to be set hidden from searching by Wi-Fi devices. The devices have to manually set SSID to make connection.
- 4.1.12 Individual APs shall be allowed to be assigned by more than one SSIDs.
- 4.1.13 Antennas of APs shall be capable of detecting user locations in real time for direction switching while devices in motion.
- 4.1.14 The DHCP server shall support at least 30 queries/sec.
- 4.1.15 The WLAN system shall suspend the session of the user once the session control is expired and the suspension time shall be configured by the school.
- 4.1.16 The Contractor shall in provision of the service comply with non-interference requirements of and shall not cause interference prohibited under the Telecommunication Ordinance (Cap 106) or any other laws or regulation of Hong Kong.
- 4.1.17 The WLAN System shall provide termination of idle sessions and control of the duration features.
- 4.1.18 The WLAN System shall support client roaming across Access Points.
- 4.1.19 The WLAN system shall cover all areas specified under this tender.
- 4.1.20 The quotation shall include the cost to provide sufficient quantity and its cabling work

required, including but not limited to supply and install the Fibre optics, Cat 6 cable, Conduit, cable patch panel, cable faceplate, Cable patch cord.

- 4.1.21 The Contractor shall provide complete set of WLAN Systems which consist of Wireless Access Point, Connection Cable, Authentication System, Wireless LAN Controller, PoE Switch, horizontal UTP Cat 6 cable/OM3 Fiber, patch cable UTP Cat 6 / OM3 Fiber Optics, any required license and all associated accessories.
- 4.1.22 All access points (AP) shall be certified by OFCA and copy of certificates issued by OFCA shall be attached to the proposals.
- 4.1.23 The Contractor shall ensure that there is no interference between WLAN Access Points due to limited non-overlapping channels assignment when the WLAN AP is installed. The Contractor shall be responsible at his own costs for providing solution to eliminate the interferences including but not limited to reassignment of the non-overlapping channels, adding extra APs with lower transmission power and/or replacement of the WLAN AP.
- 4.1.24 The WLAN System shall support Web GUI management.
- 4.1.25 FTP service shall not be allowed in the Wi-Fi network (to avoid exchanging credential and files in plain text without any encryption).
- 4.1.26 The WLAN System deployed shall be non-Asian band.

4.2 Core Switch

- 4.2.1 The Core Switch would be responsible for connecting all PoE access switches in typical floors for WLAN AP.
- 4.2.2 The Core Switch shall be capable of providing the required bandwidth, QoS, and policy-based routing to carry all sorts of information including video, voice, data, image, etc.
- 4.2.3 Each Core Switch shall provide a Gigabit Ethernet connection to each PoE Access Switch in typical floors.
- 4.2.4 The Core Switch shall support Layer 2 and Layer 3 switching and capable of providing

the wired speed performance.

- 4.2.5 The Core Switch shall support basic IP unicast routing protocols, Static route, Routing Information Protocol (RIPv1, RIPv2), inter VLAN routing.
- 4.2.6 The Core Switch shall support Internet Group Management Protocol (IGMP) snooping and multicast and unicast storm control, Spanning-Tree Protocol.
- 4.2.7 The Core Switch shall support WebGUI Management, Access Control Lists (ACLs), DHCP Interface and SNMP.
- 4.2.8 The Core Switch shall support VLANs including support for IEEE 802.1Q and IEEE 802.1p.

4.3 PoE Access Switch

- 4.3.1 The Access Switches shall be deployed to provide high performance interconnectivity between the Core Switches and the WLAN APs on typical floor and support Cloud-based management
- 4.3.2 The Access Switch shall consist of 8/12/24/48 x 10/100/1000Base-T Ethernet ports, with minimum of 1 x 1000Base-T / 1000Base-SX SFP Gigabit Ethernet uplink ports connected with the Core Switch.
- 4.3.3 The Access Switch shall be used for connecting the WLAN APs. The Contractor shall determine the Maximum power loading of the devices to be connected with the PoE Access Switches. The Contractor shall provide additional PoE Access Switch(es) if the total power loading summed up from the PoE devices exceeds the maximum power loading capacity of the PoE Access Switch.
- 4.3.4 The Access Switches shall support VLAN configuration.
- 4.3.5 The Access Switches shall be at wired speed.
- 4.3.6 The Access Switches shall be provided sufficient port density to meet all the required links.

- 4.3.7 The Access Switches shall support PoE and shall conform to IEEE 802.af / IEEE 802.3af standard, which delivers power over single copper UTP cable for WLAN AP.
- 4.3.8 The Access Switches shall support Internet Group Management Protocol (IGMP) snooping and multicast and unicast storm control, IEEE 802.1D Spanning-Tree Protocol.
- 4.3.9 The Access Switches shall support Virtual local area network (VLANs) including support for IEEE 802.1Q and IEEE 802.1p.
- 4.3.10 The Access Switches shall support WebGUI Management, Access Control Lists (ACLs), DHCP Relay and SNMP.

4.4 Firewall

- 4.4.1 The performance of the Firewall shall not be degraded with 100% Internet bandwidth utilization.
- 4.4.2 Network Address Translation (NAT) is required.
- 4.4.3 Access Control Policy, Content filtering and Anti-Malware services are required.
- 4.4.4 The configuration settings of the appliance shall be allowed to export to files for backup and restore for rapid recovery and shall control all incoming and outgoing Internet traffic, serving as the sole entry and exit point between the Internet and the WLANs in all locations.
- 4.4.5 The configuration settings of the appliance shall support blocking specific network ports, including ports of Transmission Control Protocol (TCP) and User Datagram Protocol (UDP). Blocking denial of service (DoS) attacks and malformed packet attacks shall also be configured.
- 4.4.6 The firewall policy should be applied to control network traffic such that public users should be prohibited to access the internal network segments of the School.

4.5 Service Requirements

- 4.5.1 The Contractor shall be responsible for the total project management and shall assign a person to act as the single contact point to the School regarding all related activities of the contract. This single contact point cannot be transferred to a sub-contractor unless explicitly agreed by the School. Contractor should formally inform the School in writing if there is a change of contact point.
- 4.5.2 The Contractor shall provide rack/cabinet or use existing school rack if there is available rack space. All switches/firewall shall be properly installed into wall mounted cabinet or rack.
- 4.5.3 Cables shall be labelled with connected port and its device id.
- 4.5.4 All the equipment shall be labelled with an identifiable id.
- 4.5.5 The placement of cables, cabinets, racks and appliances shall be shown on the network diagram.
- 4.5.6 Switches and/or other appliances shall be properly installed into cabinet/rack with appropriate ventilation.
- 4.5.7 13A power cord(s) shall be bundled with appliance(s).
- 4.5.8 Cable shall be properly set up onto appropriate cable management guide.
- 4.5.9 Contractor should make sure that the actual environment is suitable for the installation and operation of equipment with School agreement in advance, and make necessary suggestions, if any.

4.6 Service Level Requirements

- 4.6.1 The Contractor shall provide incident/problem report to the School within 5 working days after each incident and the resolution taken.
- 4.6.2 The Contractor shall derive mechanism, including forms and reference tables for measuring and recording the Service Level Measures, to ease the administration and

monitoring by the School.

- 4.6.3 Advance notice by at least 2 weeks shall be given to the School prior to all scheduled maintenance. At most 4 scheduled maintenances per year are excluded from the calculation of Service Levels. No more than 1 hour service interruption or an agreed time slot is accepted for each scheduled maintenance.
- 4.6.4 Service Level, expressed in percentage, is the ratio of actual available time to the scheduled available time for the Wi-Fi network of the School and is calculated according to the following formula:

Service Availability Level = (Schedule Uptime within the month— Unscheduled Downtime within the month) / Scheduled Uptime within the month, where

Scheduled Uptime: The duration, in unit of minutes, for the Wi-Fi network of the School is scheduled to be available for the month. The duration will exclude the scheduled downtime, which is defined as duration agreed between the School and the Contractor during which the service may be deliberately made unavailable to users.

Unscheduled Downtime: The amount of time, in unit of minutes, that the service are unavailable due to equipment failure or other reasons under the responsibility of the Contractor.

4.7 Service Level Rebates

- 4.7.1 The Service Rebates to the School operate as liquidated damages for the performance fallen short of the target service levels over a period of one month. The service measures stipulated in 4.6 will be used to determine the Service Rebates in Service Availability (S1) and Service Resumption Time (S2).
- 4.7.2 The application of the Service Level Rebates adjustment to the monthly charge will commence with effective from the acceptance of the reliability test.
- 4.7.3 For each month, the Service Rebates for different service measures (S1, S2) will be calculated as below if the Contractor cannot meet the target Service Levels for the Wi-Fi network of the School under the availability agreed:

Failure Hour x [(Yearly Subscription Fee) / (365 x 24)] x 2, where

Failure Hour: The unscheduled downtime or the time to resume the network due to the failure of hardware or software which is provided by the Contractor. Failure Hour is calculated in the increment of 0.5 Hour.

4.7.4 The Service Rebates of the Wi-Fi network of the School, if any, will be paid by crediting the invoice of the following month.

4.8 Helpdesk Service

- 4.8.1 The Helpdesk Service shall maintain dedicated hotline, including phone, email and fax, for enquiries and complaints.
- 4.8.2 The Helpdesk Service shall answer enquiries and complaints originated from the School concerning the Service.
- 4.8.3 The Helpdesk Service shall operate from Mon to Sat 8:00 am to 6:00 pm.
- 4.8.4 The Helpdesk Service shall maintain call logs on enquiries and complaints. The information shall be included but not be limited to date, time, description of issues, contact information, and follow-up actions. The Contractor shall observe and comply with Personal Data (Privacy) Ordinance in handling all information relating to these enquiries and complaints.
- 4.8.5 The Contractor shall provide the following information concerning the Helpdesk service related to the implementation of the Service:
- Detailed information of the helpdesk office, such as address, phone number, fax number;
 and
- Facilities, computer systems and equipment provided in the helpdesk office, such as private branch exchange (PBX), keyline telephone system (KTS), interactive voice response system (IVRS) and voice recording system.
- 4.8.6 The Contractor shall provide helpdesk staff with the necessary tools, including but not limited to hardware and software, related training for supporting the Service.

4.8.7 The Contractor shall not make use of the Helpdesk Service to transmit any message or conduct any activity to the School, which is not connected with the provision of the Service. The School shall have the full discretion to determine whether any such message or activity is in breach of this provision. The Contractor shall forthwith stop transmitting such message or conducting such activity and refrain from doing it further once the School has notified the Contractor in writing or verbally of its determination.

4.9 User Acceptance Test

- 4.9.1 The Contractor shall conduct tests with the School before the service is officially accepted and subscription started. Tests shall include User Acceptance Test for reliability and performance of the hardware and software, and also the monitoring, operation support and all other aspects related to the Service Level Agreement of the Service. At least 14 school working days of trial period is expected for service monitoring after testing.
- 4.9.2 The contractor will be required to perform test making reference to the User Acceptance Test and System Test documents at www.edb.gov.hk/ited/wifi900. They include the types of testing to be performed, the requirements to be tested, the testing environment, testing tools and pass/fail criteria as reference to the Contractor.
- 4.9.3 The Contractor shall upon request by the School arrange briefings to the School and/or Responsible Parties of the School, with briefing materials, prior to the User Acceptance Test when required.
- 4.9.4 The Contractor shall provide detailed acceptance test plan and a step by step testing procedure with expected results against the requirements set out in this specification.
- 4.9.5 The Contractor shall provide, configure and set up the proper software and hardware for the School to carry out the User Acceptance Test.
- 4.9.6 The Contractor shall be required to carry out tests to demonstrate that the equipment and system meet the specification and other contractual requirements. The Contractor shall also be responsible for the timely preparation and compilation of all test schedules, test procedures and test reports.
- 4.9.7 The Contractor shall follow the agreed standards as laid down in this specification for

the testing methods and procedures.

- 4.9.8 The Contractor shall submit a schedule of site performance and commissioning tests at least 3 working days prior to the commencement of the scheduled commissioning date.
- 4.9.9 Special tools, test equipment, test objects and simulators required for the demonstration of either bench or commissioning tests shall be made available by the Contractor at no extra charge to the School.
- 4.9.10 All test equipment used by the Contractor shall be properly and periodically calibrated. Measuring standards used in calibration shall be traceable to international or national measurement standards, or to an industry recognized manufacturer's reference, subject to approval of the School.
- 4.9.11 Calibration procedures and results shall be documented and signed by certifying body where applicable. The Contractor may be requested to show evidence of calibration of test equipment by submission of copies of these calibration records prior to conduction of any tests.
- 4.9.12 The Contractor shall submit the User Acceptance Test report within 3 working days. The acceptance of the installation will only be granted after receiving a satisfactorily UAT report from the Contractor.
- 4.9.13 All equipment to be installed may be subject to inspection and bench testing. The Contractor shall meet the cost of deliveries for bench test. Notwithstanding, the Contractor shall have carried out the tests in accordance with the requirements and procedures stipulated in this specification and submitted the associated test reports for inspection.

4.10 Termination of Service

- 4.10.1 The School reserves the right to terminate all or part of the Service at any time with written notice of 10 working days in advance if:
- The Contractor fails to meet the target service levels under Service Level Requirements for two consecutive months, or three months in total within the committed subscription period;
- The School suspects that unauthorized activity has occurred or is occurring in relation to

the Service;

- The provision of the Service will cause the School to be in breach of any applicable law;
- 4.10.2 The Contractor shall provide to the School and implement the Exit Plan in accordance with:
- The Contractor shall provide to the School an Exit Plan with feasible arrangements before the committed subscription contract date;
- If the School considers the Exit Plan as not satisfactory, it will notify the Contractor with comments. The Contractor shall revise the Exit Plan by taking into consideration of the School's comments and provide to the School with five (5) working days after the date of receiving the School's comments. If the Exit Plan has been considered as not satisfactory for three or more times, the School shall have the right to terminate this Contract by giving 10 days' notice in writing;
- Detailed exit procedures, disengagement timetable and actions to be taken by both the Contractor and the School for smooth termination of all or any part of the Service;
- The Exit Plan shall aim at enabling the School or its authorized parties to perform in substitution for the Contractor and to eliminate or minimize any disruption or deterioration of the Service. The Exit Plan shall contain, but not limited to the following information:
 - Detailed exit procedures, disengagement timetable and actions to be taken by both the Contractor and the School for smooth termination of all or any part of the Service;
 - Any information that is necessary for the School or a new service provider to continue the provision of the Service;
 - Details of the Contractor's personnel and other resources that will assist the School or the School's authorized parties during the handover;
 - All provisions of facilities such as trunks, conduits, cables, LAN ports and power points, shall be considered as fixture of the School venues and shall become the property of the School. The Contractor shall remove or keep those provisions according to the instruction of the School. Contractor can remove the network equipment such as switch, routers, and access points.
- The Contractor shall be responsible for the implementation and execution of the Exit Plan and shall ensure that the exit plan is carried out in a timely and orderly manner.

5. Technical Specification (Add-on Requirement)

6. Wi-Fi.HK (optional service)

- 6.1 The implementation of Wi-Fi.HK is advocated by the School, the decision of the implementation will not be served as a basis of discrimination for proposal evaluation.
- 6.2 To make it easier for the public and visitors to access free Wi-Fi services in Hong Kong, the Government is promoting the free Wi-Fi services offered by the public and private sectors in Hong Kong under a common Wi-Fi brand "Wi-Fi.HK". It will help the public and visitors find and connect to the public Wi-Fi hotspots throughout Hong Kong. These free hotspots will be promoted under the Wi-Fi.HK brand through various means such as the Wi-Fi.HK thematic website and mobile app. With a common brand in place, it will create more business opportunities for the Wi-Fi.HK participating organizations to promote and deliver their products and services to their customers by leveraging on mobile technologies.
- 6.3 Contractor is invited to provide free Wi-Fi service riding on the same Wi-Fi network infrastructure using the Wi-Fi.HK SSID for school visitors such as parents to access the Internet in schools and such services shall incur no additional charge to the School.
- 6.4 The following are the requirements of the Wi-Fi.HK scheme:
- Aggregated total of at least 30 minutes free access time per day per device;
- Service available 24 hours x 7 days or as long as the venue is accessible to the user;
- All Access Points providing public Wi-Fi service be registered with OFCA;
- SSID of Access Points be presented in "Wi-Fi.HK via <designated name of service provider>" format;
- Landing page with Wi-Fi.HK logo, terms and conditions and disclaimers for user to accept for connection but no need for user to login using username or password;
- Hotline service, contact email or on-site support be provided for public enquiry and technical support; and
- Preferably with installation of digital server certificate issued by recognized certificate authority on the landing page so that users can easily discern the legitimacy of the Wi-Fi services.
- 6.5 The network for supporting Wi-Fi.HK shall not be allowed to have direct access to the School's network. Connections via Wi-Fi.HK shall have access to the Internet only.
- 6.6 Content filtering is not a requirement for Wi-Fi.HK.

- 6.7 When the School terminates all or part of the Service, the Wi-Fi.HK service of the related area will be terminated together. The School also reserves the right to request the Contractor to terminate or suspend the Wi-Fi.HK service at any time.
- 6.8 More details of the scheme can be found at Wi-Fi.HK thematic website (http://www.wi-fi.hk).

7. Sub-Contracts

- 7.1 The Tenderer shall be the prime Contractor for all the services specified in Part X and Part Y of this contract. The Tenderer shall be the single point of contact for all contractual matters.
- 7.2 The Tenderer shall be liable for the performance or breach of any provisions of the contract by Sub-Contractors.
- 7.3 The Tenderer shall provide details of the sub-contract service for the Wifi operation and maintenance of the Sub-Contractors in the format listed on Section 5 of Part Y. The hierarchy of the sub-contracting shall also be clearly stated below. If there are no Sub-Contractors, please enter nil.
- 7.4 No Sub-Contractor(s) specified in Section 5 of Part Y shall be replaced unless prior written consent has been given by the School.
- 7.5 The Tenderer shall ensure that the quality of the service rendered by the Tenderer shall not be affected due to any change of Sub-Contractors;
- 7.6 The Tenderer shall not be relieved from any of its obligations hereunder by entering into any sub-contract for the performance of any part of this contract. If request by the School, the Tenderer shall describe which part of the service shall be performed by the Sub-Contractor(s) in the sub-contract(s) between the tenderer and its Sub-Contractor(s).

8. Schedule of Work

8.1 The Contractor shall provide the service according to the following schedule.

Phase	Items	Starting Date	Ending Date	Service fee
I	Build up of WiFi network	On or before Feb 2025	3 Mar 2025	0
II	Subscription of service	4 Mar 2025	3 Mar 2028	Quoted price
			3 Mar 2028	Quoted price

9. Delay of Schedule

- 9.1 If the Contractor fails to provide any part of the WiFi service which shall be ready for use in the School within 60 days after the target Ending Date specified in Section 8 of Schedule of Work then notwithstanding anything else contained in this Contract the School shall be entitled to terminate this Contract with forthwith by giving written notice to the Contractor and to recover from the Contractor the amount of all damages and loss suffered by the School resulting from such failure, including without limitation to any damages and loss resulting from the termination of related service orders.
- 9.2 Within one (1) week of the termination of this Contract, the Contractor shall collect its own Hardware and Software at his own cost after the contractor has removed the School Data in the Hardware.
- 9.3 The Contractor shall reinstate and make good the concerned area of the School to the satisfaction of the School after removal of the hardware.

10.Terms of Payment

10.1 The subscription will be paid in arrears of each month during the subscription period.

11.Price Proposal

11.1 The Service Provider is required to provide a breakdown on the service charges for each of the service items as set out in the Price Proposal at PART Y - PRICE SCHEDULE. Failure in complying with this requirement will render the quotation disqualified.

- 11.2 Please note that, the School has the absolute discretion to accept the whole of the Services or just part of the Services as listed out by items in the Price Proposal.
- 11.3 Set up cost will not be considered as a part of the cost in subscription mode.

12. Invitation for Quotations

- 12.1 Quotations are invited for the execution of the whole of the Services as described in this document. Quotations for part but not all of the Services will not be considered.
- 12.2 Please provide two sets of quotation documents for processing of the quotation.

13. Tender Preparation and Submission

- 13.1 The Service Provider is required to submit the following information and document.
- A Statement of Compliance to provide response that the quotation complies with all requirements stated in this Specification.
- Price Schedule
- No upfront cost or one off cost schools shall be paid throughout the entire subscription period.
- Proposed AP location mark on the Floor plan.
- Proposed Network infrastructure show on the Network Diagram.
- Implementation Plan.
- Wi-Fi Access Point certificates issued by OFCA.
- Product information including technical and descriptive literature and catalogues.
 Information provided by the manufacturer shall be able to substantiate that the products offered meet the mandatory Technical Specification.

14. Briefing Session/Site Visit

14.1 To facilitate the Service Provider to propose the quotation, a briefing session is arranged as follows. The Service Provider must attend the briefing session and carry out WiFi survey with appropriate tools.

15. Selection and Payment

School is looking for a contractor based on the following criteria

- Proposed pricing
- Proposed solution
- Equipment and services level
- Case reference
- Other useful information

16. Enquiry

For enquiry, please contact Mr. Ku Man Chung(IT) of the School at kumc@jcmkec.edu.hk or by phone at 24472322.

PART Y - PRICE SCHEDULE

1. Price details for Standard Provision

Standard Provision	3 years		School's choice on confirmation
	Monthly price	Annual price	
WiFi Service Subscription			A
Total number of APs: 31			
(Room109, 111, 202, 203, 204,		W	
205, 206, 207, 208, 302, 304, 306,			
402, 403, 404, 405, 406, 407, 408,			
502, 503, 504, 505, 508, 602, 603,		-	
604, 605, 606, 607, 608)			
(Requirement as stated in Part X)			
Total in HK\$			

2. Price details for Add-on Services (Offer will be considered on itemized basis)

Add-on Service		3 years		School's choice on confirmation
Item	Description	Additional monthly price	Additional annual price	
WiFi coverage for other areas	Provide APs for other areas(total 24 APs):Room 613, 615, 506, 513, 515, 414, 416, 311, 313, 303A, 303B, 303C, 213, 217, 116, 118, 102, 104, Hall A, Hall B, G02, Library, 雨天操場, 接待處			

Add-on Service		3 years		School's choice
				00
				confirmation
Item	Description	Additional	Additional	
		monthly	annual price	
		price		
Broadband	Defined in Part X			No.
service				
Number of	Defined in Part X			
Concurrent	(AP in library			
Connection	should support at			
	least 80 users)			
Authentication	Defined in Part X			
Method				
Session Control	Defined in Part X			
WLAN Access	Defined in Part X			
Control				
Internet Content	Defined in Part X			
Filtering Service				
Integration of	Defined in Part X			
networks				

Add-on Service		3 years		School's choice
	8			0n confirmation
Item	Description	Additional monthly	Additional annual price	Communication
Internet addresses subscription & configuration	Defined in Part X			
Monitoring of WiFi network	Defined in Part X			
Redundancy	Defined in Part X			
WiFi Service Recovery	Defined in Part X	1		
Support hours	Defined in Part X			
Reporting	Defined in Part X			
Contract End Arrangements	Defined in Part X			

3. Wi-Fi.HK Service

Wi-Fi	i cove	erage are	a of V	Wi-Fi coverage area of Wi-Fi.HK:		兩天操場,接待處.
Will you (Y/N)?	you	Will you provide free Wi-Fi.F	free	Wi-Fi.HK	service	Y/N (to be input by Contractor)

4. Details of equipment to be proposed in the Buildup of WiFi network in the School

Items	Quantity	Model
WiFi Controllers		
Access Points		
Router/Firewall		
Core Switch		
Access PoE Switches		
LAN Cables		
Others (please specify)		

the project implementation, service operation and maintenance in the format listed below 5. The Tenderer to provide details of the sub-contract service involved in the proposal for

Name of	Sub-contract	Roles and responsibility
Sub-Contractor	service	

6. The Tenderer to provide case reference of past deployment in WiFi100/WiFi900 with Sub-Contractors details in the format listed below

Roles and responsibility				
Sub-contract service				
Name of	Sub-Contractor			
Name of School				

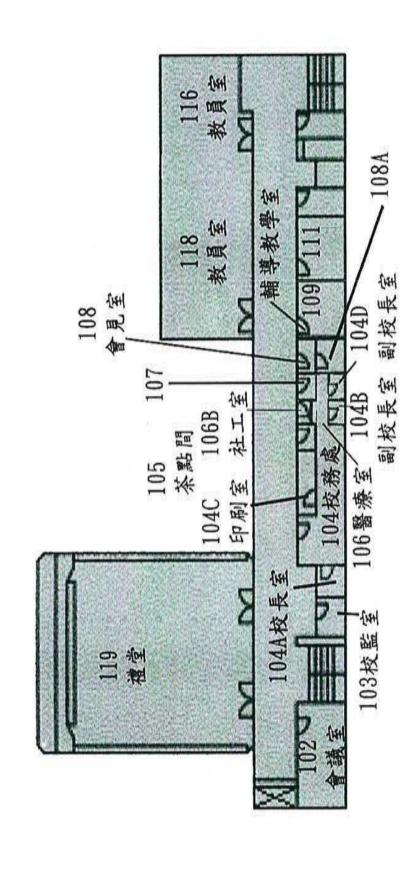
7. A floor plan (provided by the School) is attached.

Annex: Floor Plan of the School

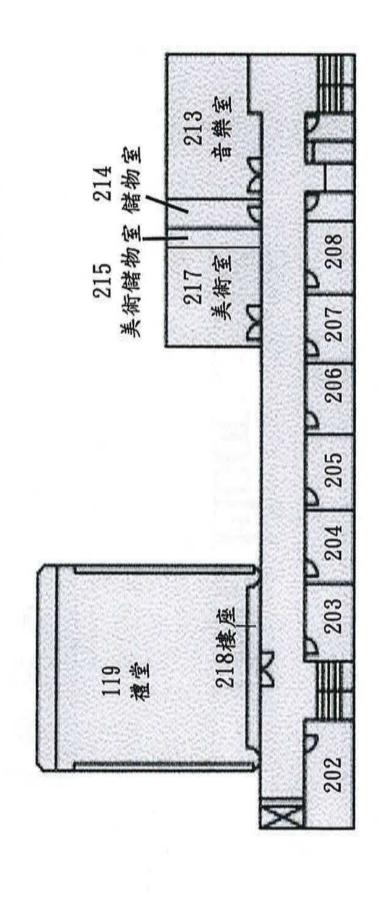
Ground Floor



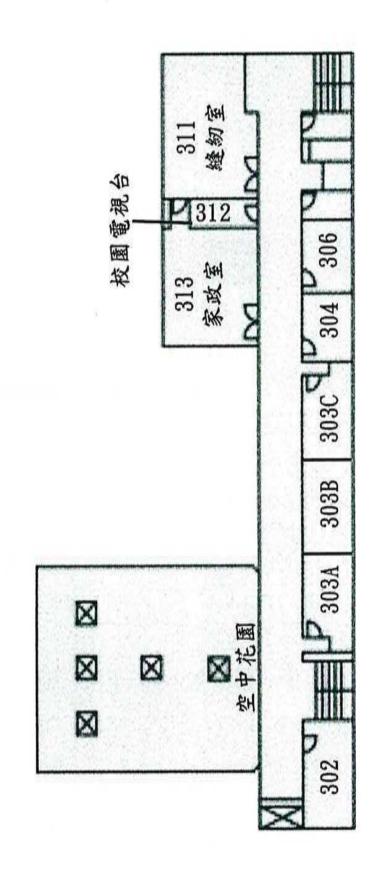
First Floor



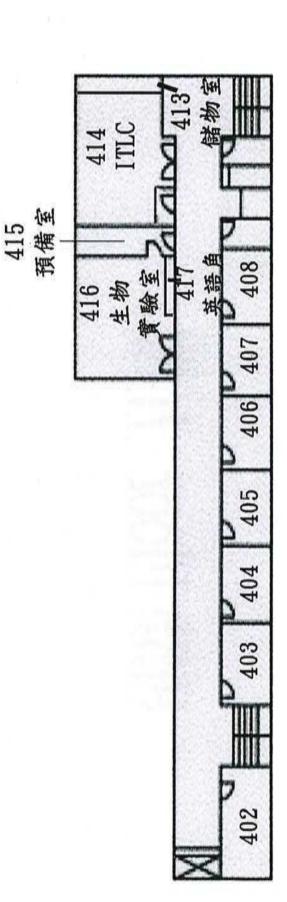
Second Floor



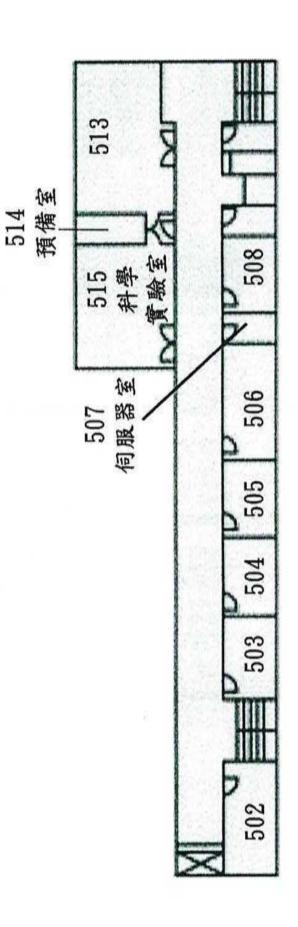
Third Floor This



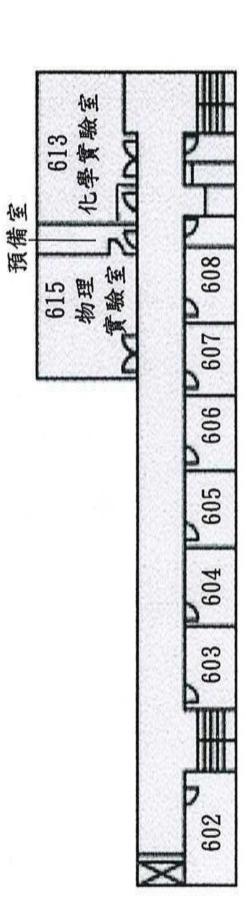
Fourth Floor 四鄰



Han Hoor 九美



Sixth Floor N



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