Hong Kong-Shenzhen Innovation and Technology Park Limited

Tender Document

Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park

Tender Reference:

FD-03-06-02(270)

Tender Submission Period:

17 December 2026
9:00 a.m. to 12:00 noon (HKSAR)

Tender Closing Date:

17 December 2026
12:00 noon (HKSAR)

IMPORTANT NOTICE

This tender document is issued by Hong Kong-Shenzhen Innovation and Technology Park Limited ("**HSITPL**") and contains confidential information regarding the potential purchase by HSITPL as detailed in this tender document. The purpose of this tender document is to identify potential suppliers. All information supplied by HSITPL in connection with this tender document shall be treated as confidential and strictly for the use by the recipients in response to this tender document only.

In consideration of receiving this tender document, the recipients agree and acknowledge that the tender document and any other information that may be provided to the recipients by or on behalf of HSITPL will be maintained in strict confidence and will not be disclosed to any third party. In particular, your attention is drawn to the fact that your receipt of this tender document and any discussions relating to its contents must be kept confidential at all times.

Please note that this is not an offer and it is only an invitation to interested parties to submit tenders to HSITPL for consideration.

PART I: Terms of Tender

1. General

a) Recipients (each a "**Tenderer**") are invited to submit tenders for two-year mechanical ventilation & air conditioning ("**MVAC**") systems maintenance services for Hong Kong-Shenzhen Innovation and Technology Park ("**HSITP**", or the "**Park**") ("**Services**") in accordance with the requirements of this Invitation to Tender ("**Tender Documents**"), in particular, Submission Requirements as set out in Part III of this Invitation to Tender.

b) All information provided by HSITPL or any other representatives or agents of HSITPL for the purpose of inviting a tender in response to the Tender Documents ("**Tender**") shall be treated as private and strictly confidential and must not be disclosed or transferred to any other party without the prior written permission of HSITPL. The information provided in the Tender Documents is strictly for use by the Tenderers in response to this Invitation to Tender only. Confidentiality must be maintained by all Tenderers even after the appointment of the successful Tenderer ("**Provider**").

c) All costs and expenses incurred by the Tenderer in preparing a Tender shall be entirely borne by the Tenderer.

d) HSITPL reserves the right at its sole and absolute discretion to modify, amend, revise, or cancel this Invitation to Tender without any liability for any cost, expenses and/or losses whatsoever which may be incurred by the Tenderers.

e) Tenders may not be considered if false or incorrect information is provided by the Tenderer.

f) This Invitation to Tender is merely an invitation and shall not in any way be construed as an offer by HSITPL nor constitute a contractual relationship between HSITPL and the Tenderers.

2. Accuracy and Validity of Offered Prices

a) Tenderers shall ensure that all information (including quoted prices) in the Tenders is accurate. Under no circumstances will HSITPL accept any request to amend or revise or modify any information (including price) in the Tender.

b) Tenderers are requested to submit their cost proposals in Hong Kong Dollars. All Tenders shall be valid for a period of **six (6) months** from the Tender Closing Date ("**Tender Validity Period**"). The Tenderer agrees that, should HSITPL so request in writing, the Tenderer shall abide by this Invitation to Tender for a further **three (3) months**, and the Tender may be accepted by HSITPL at any time before the expiration of this extended period. If an award cannot be made within the Tender Validity Period (or extended Tender Validity Period), a request may be made to some or all of the Tenderers to further extend the Tender Validity Period, at which time they may elect to extend or withdraw their Tender or may agree a further extended Tender Validity Period with HSITPL in writing.

c) Each and every Tender shall constitute an unconditional and irrevocable offer from the Tenderer capable of being accepted by HSITPL on the terms and conditions contained in the Tender Documents.

3. Tender Enquiries, Requests for Clarifications and Addenda

a) All enquiries or requests for clarification relating to the Tender Documents should be submitted in writing at least one week (i.e., seven (7) calendar days) before the Tender Closing Date to:

Mr. Derek Tien – Manager, Facilities Management
Email: derek.tien@hsitp.org
Telephone No.: (852) 3189 1592

The Tenderer shall state in the email subject heading "**Tender Enquiry – Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. No. FD-03-06-02(270))"** and provide full contact details in the email. HSITPL reserves the right not to respond to any enquiry or request for clarification submitted after the deadline specified above.

b) Should HSITPL wish to clarify the Tender Documents in response to any enquiries or requests for clarifications, such clarifications will be made in writing and sent to all Tenderers by email. Such emails containing the Tenderer's enquiries or requests for clarifications and HSITPL's answers will be bound in with, and shall become part of, the documents forming the contract for the appointment of the Provider ("**Contract**"). Save as aforesaid and unless otherwise expressly stated by HSITPL, any other statement, whether oral or writing, made and any action taken by HSITPL or its consultants or any of their officers in response to any query made by a Tenderer is for guidance and reference purposes only and will not be deemed to form part of the Tender or Contract or in any way alter, negate, waive or otherwise vary any of the terms and conditions contained in the Tender Documents.

c) Prior to the Tender Closing Date (which may be extended in accordance with the terms of the Tender Documents), addenda (each, an "**Addendum**") may be issued to clarify or modify the Tender Documents. A copy of each Addendum will be issued to every Tenderer via email and shall become a part of the Tender Documents.

4. Submission of Tender

a) The deadline for submitting a Tender ("**Tender Closing Deadline**") is **12:00 noon on 17 December 2026** ("**Tender Closing Date**").

b) Tenderers shall follow a two-envelope system, as set out below, in submitting their Tenders:

(i) Technical Proposal

The front cover of the Technical Proposal envelope shall be clearly marked with the subject of the Tender and the tender reference:

"Technical Proposal: Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. No. FD-03-06-02(270))"

and the Tenderer's company name

(ii) Price Proposal

The front cover of the Price Proposal envelope shall be clearly marked with the subject of the Tender and the tender reference:

"Price Proposal: Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. No. FD-03-06-02(270))"

and the Tenderer's company name

c) Tenderers shall ensure that their Technical Proposal and Price Proposal are prepared in accordance with the Submission Requirements provided in the Tender Documents.

d) Tenderers shall submit their Technical Proposal and Price Proposal separately in 2 sealed envelopes from 9:00 a.m. to 12:00 noon on the Tender Closing Date in the tender box located at:

Hong Kong-Shenzhen Innovation and Technology Park Limited
10/F, Loop Academy One, Hong Kong-Shenzhen Innovation and Technology Park

Attention: Procurement Department (Tender Box A)

e) HSITPL reserves the right to disqualify any Tenderer if price information is disclosed in the Technical Proposal.

f) If the Tender contains any qualification and/or alternative proposal, HSITPL reserves the right to disqualify such Tender. Further, such qualifications and/or alternative proposals are generally not accepted.

g) Any late submissions or Tenders not submitted in accordance with the provisions in Clauses 4b) to f) above will not be accepted.

h) In the event that typhoon signal no. 8 or above or a black rainstorm warning is hoisted or an announcement on extreme conditions is issued in Hong Kong at any time between 9:00 a.m. and 12:00 noon (Hong Kong Time) on the Tender Closing Date, the Tender Closing Deadline will be extended to 12:00 noon (Hong Kong Time) of the next Business Day.

i) Tenderers may be required to make a formal presentation at their own cost of their Tenders in the week of 28 December 2026 (tentative date). HSITPL shall advise the exact time, date and issue formal invitation to the Tenderers.

j) Each Tenderer can only submit one Tender. In the event that more than one Tender is submitted by the same Tenderer, all Tenders submitted by such Tenderer will not be considered.

k) A holding company, all his subsidiaries and related parties (collectively "**Group Companies and Related Parties**") shall undertake that only one company amongst its Group Companies and Related Parties will submit a Tender ("**One Tender Requirement**"). A Tender submitted by a joint venture of the Tenderer and an entity within the Group Companies and Related Parties will be regarded as a Tender from one and the same Tenderer. But if two or more shareholders or participants in the same joint venture tenderer have a holding-subsidiary relationship or they are related, they shall not be regarded as having submitted more than

one Tender. Tenderers will be disqualified if they fail to comply with the One Tender Requirement.

The existence of a holding-subsidiary relationship shall be determined in accordance with the provisions in Sections 13 to 15 of the Companies Ordinance (Cap. 622). A related party is any entity (including but not limited to sole proprietorship, partnership and limited company) related to the Tenderer. An entity ("**Entity**") is related to a Tenderer if any of the following conditions applies:

(i) The Entity is controlled or jointly controlled by a person or a close member of that person's family who:

  (a) has control or joint control of the Tenderer;

  (b) has significant influence over the Tenderer; or

  (c) is a member of the key management personnel of the Tenderer or of a parent of the Tenderer.

(ii) A person or a close member of that person's family, who has control or joint control of the Tenderer, has significant influence over the Entity or is a member of the key management personnel of the Entity (or of a parent of the Entity).

(iii) The Entity, or any member of a group of which it is a part, provides key management personnel services to the Tenderer or to the parent of the Tenderer.

For the avoidance of doubt, the following definitions should be adopted when interpreting the above provision:

'Control' means the power to govern the financial and operating policies of the Tenderer / Entity so as to obtain benefits from its activities.

'Joint control' means the contractually agreed sharing of control over the Tenderer / Entity, and exists only when the strategic financial and operating decisions relating to the Tenderer / Entity require the unanimous consent of the parties sharing control.

'Significant influence' means the power to participate in the financial and operating policy decisions of the Tenderer / Entity / parent of the Tenderer and/or the Entity (as the case may be) but does not have control or joint control over those policies.

'Key management personnel' mean those persons having authority and responsibility for planning, directing and controlling the activities of the Entity, directly or indirectly, including any director (whether executive or otherwise) of that Tenderer / Entity / parent of the Tenderer and/or the Entity (as the case may be).

'Close members that person's family' mean those family members who may be expected to influence, or be influenced by, that individual in their dealings with the Tenderer or the Entity. They may include but not limited to:

(i) the individual's domestic partner and children;

(ii) children of the individual's domestic partner; and

(iii) dependants of the individual or the individual's domestic partner.

The Tenderer shall submit with his Tender a duly signed and witnessed letter in the form set out in Appendix A to the Tender Documents. The signatory to the letter shall be a person authorized to sign contracts on the Tenderer's behalf.

The Tenderer shall submit the following supporting document(s):

- Undertaking in the form of the letter of declaration as set out in Appendix A that only one Tender is submitted within its Group Companies;
- The Tenderer's identity documents (e.g. business certificate, certificate of incorporation, or equivalent);
- Organisation chart (showing shareholder(s) up to ultimate beneficial owner(s));
- List of directors and shareholders; and
- Document(s) showing shareholders and/or ultimate beneficial owners (e.g. latest annual return(s), significant controller register, certificate of incumbency, or equivalent).

The Tenderer may be disqualified if it fails to submit any of the above document together with the Technical Proposal.

l) All submitted documents and materials will not be returned to the Tenderers regardless of the results of the Tenders and all the said materials will become the property of HSITPL.

5. Assessment Criteria

a) All Tenderers shall be evaluated according to the following criteria:
   - 60 % Technical Capability (maximum technical score: 60)
   - 40 % Pricing (maximum price score: 40)

b) As a prerequisite, all terms as set out in the Submission Requirements in the Tender Documents must be fulfilled before the Tender will be evaluated. Tenders which fail to comply with any of such terms will not be considered any further.

c) Tenders which comply with all the terms as set out in the Submission Requirements will be evaluated based on the following non-exhaustive criteria (which are not ranked in any order of importance). The Tenderer must demonstrate the technical merits of the submitted Tender. Assessments will be based on all materials of the submitted Tender and any presentation or demonstration given by the Tenderer.

   (i) Experience and job reference;

   (ii) Team qualification;

   (iii) Service delivery capability;

   (iv) Maintenance plan; and

   (v) Price offer.

d) Technical Score shall be assessed by the Tender Assessment Panel members based on the criteria below.

Technical Capability Assessment		Technical Score (Points)
A. Experience and job reference	Tenderer to provide: 1. A company profile related to MVAC systems maintenance services. 2. Relevant job references for previous experience in MVAC systems maintenance services. Each reference project must relate to a facility in Hong Kong with at least one MVAC system including primary air handling unit ("**PAU**") / air handling units ("**AHU**"), staircase pressurization system ("**SPS**"), and air-cooled chiller ("**ACC**") and must have been completed within **five (5)** years immediately preceding the Tender Closing Date, or if extended, the extended Tender Closing Date.	20
B. Team qualification	Tenderer to provide: 1. Organizational chart and escalation structure with key team members and their roles in the Services. 2. Certification / qualification of key team members.	20
C. Service delivery capability	Tenderer to provide: 1. Risk and critical equipment assessment 2. Emergency call response capability	30
D. Maintenance plan	Tenderer to provide: 1. Proposed maintenance plan. 2. Sample of maintenance / repair report.	30
	Total Technical Score (A+B+C+D) =	100 (passing score: 60)

Remark: An overall passing score of 60 out of 100 of the Total Technical Score in the table above shall be attained. Otherwise, the Tender will be considered as failed in the Technical Capability Assessment and will not be considered further. Please refer to Appendix B for the marking scheme for the Technical Capability Assessment.

e) Evaluation

An assessment panel shall be formed by HSITPL to evaluate all Tenders received by HSITPL ("**Tender Assessment Panel**"). The Tenders must meet all Mandatory Assessment Criteria (as defined in Part 1 of Tender Schedule 6) and attain a score equal or higher than the passing score in the Technical Capability Assessment abovementioned. Failure to declare and submit supporting documents confirming compliance with any of the Mandatory Assessment Criteria may result in **disqualification of the Tender**. HSITPL shall evaluate the Tenders in strict confidence.

f) Score Calculation Methodology

HSITPL shall adopt the following formula in calculating the overall score for each Tender:

(i) Technical Score

Tenderer's technical score = (Tenderer's point score / Highest point score among all Tenderers) x (Maximum technical score)

(ii) Price Score

Tenderer's price score = (Lowest tender price among all Tenderers / Tenderer's price) x (Maximum price score)

Tender price refers to the Total Contract Amount as set out in Tender Schedule 4.

(iii) Overall Score = Technical Score + Price Score

6. Acceptance / Rejection of Tender

a) HSITPL is not bound to accept the Tender which is the lowest price and/or has the highest overall score and reserves the right in its absolute discretion to decline any offer or cancel this Invitation to Tender at any time without any obligation to explain its decision.

b) HSITPL may, at its sole discretion, accept all or any terms proposed by the Tenderer in the Tender.

c) HSITPL shall not be responsible for or liable to any Tenderer for any cost and/or expense and/or disbursements incurred by the Tenderers in preparing the Tender and/or any presentation or demonstration given by the Tenderer.

7. Negotiation

HSITPL reserves the right to negotiate the terms proposed in the Tender with any Tenderer.

8. Acceptance Notification

a) The successful Tenderer, i.e., the Provider, shall receive a purchase order ("**PO**") generated from the system of HSITPL within the Tender Validity Period.

b) Tenderers who do not receive any notification within the Tender Validity Period shall assume that their Tenders have not been accepted.

9. Cancellation of Invitation to Tender

Where there are changes in requirement(s) after the Tender Closing Date for operational or whatever reasons, HSITPL is not bound to accept any conforming Tender and reserves the right to cancel this Invitation to Tender and/or re-issue a new invitation to tender on such other terms and conditions as HSITPL deems fit.

10. Intellectual Property Rights

By submitting the Tender, the Tenderer represents and warrants to HSITPL that none of the information or ideas in the Tender infringes the copyright, trade secrets, or intellectual property rights of any third party, and the Tenderer is deemed to have agreed to indemnify HSITPL against all costs, claims, demands, expenses and liabilities that may be incurred by HSITPL as a result of or in connection with any claim that any information or ideas provided or submitted by the Tenderer infringes the copyright, trade secrets or intellectual property rights of any third party.

11. Offering Gratuities

a) A Tenderer shall not, and shall procure that its directors, employees, agents involved in preparing the Tender shall not offer any financial or other advantage or benefit to any director or employee of HSITPL, or engage in any activity, practice or conduct which would be in violation of any applicable anti-bribery laws or regulations in connection with the Tender Documents and any matter contemplated herein.

b) Tenders are warned that offering or giving any gratuity, bonus, discount, bribe, loan or any other gift or consideration as an inducement or reward to any employee or agent of HSITPL in relation to this Invitation to Tender may constitute an offence contrary to the Prevention of Bribery Ordinance (Cap. 201), and that if any Tenderer is found to have made such an offer, HSITPL shall be at liberty to cancel his Tender or terminate the Contract and shall hold such Tenderer liable for any losses or damages which HSITPL may suffer.

12. Non-collusion

a) Tenderers must ensure that the Tender is developed genuinely, independently and made with the intention to accept the Contract if awarded, and is prepared without any agreement, arrangement, communication, understanding, promise or undertaking with any other person (except as provided in Paragraph 3 of the Non-collusive Tendering Certificate (as defined in Clause 12 d) below), including regarding price, Tender submission procedure or any terms of the Tender. In the event of any breach of this clause by any Tenderer, HSITPL reserves the right to invalidate the Tender submitted by that Tenderer and/or terminate the Contract entered with that Tenderer based on the Tender submitted by that Tenderer and seek damages.

b) All anti-competitive practices are strictly prohibited and the Tenderer's attention is drawn to its obligations under the Competition Ordinance (Cap. 619) (the "**Competition Ordinance**").

c) Bid-rigging is inherently anti-competitive and is considered serious anti-competitive conduct under the Competition Ordinance. Tenderers who engage in bid-rigging conduct may be liable for the imposition of pecuniary penalties and other sanctions under the Competition Ordinance.

d) Upon Tender submission, the Tenderer shall submit to HSITPL a non-collusive tendering certificate (in the form set out at Tender Schedule 2) (the "**Non-collusive Tendering Certificate**") duly signed by an authorised person on the Tenderer's behalf. The Contract is to be entered into in reliance on the statements made by the Tenderer in the Non-collusive Tendering Certificate and conditional upon the effectiveness and veracity of the Non-collusive Tendering Certificate. Any breach of any of the representations, warranties and/or undertakings given in the Non-collusive Tendering Certificate not only allows HSITPL to pursue damages and other forms of redress from the Tenderer but also is capable of amounting to a criminal offence and rendering the relevant personnel of the Tenderer liable to criminal prosecution (for instance, for the offence of conspiracy to defraud and upon conviction shall be liable to imprisonment for 14 years).

e) Notwithstanding any provisions regarding disclosure of documents and information, HSITPL may, at its discretion, report and provide documents and information regarding any suspected anti-competitive collusive conduct to the Competition Commission and/or other relevant authorities.

13. Flexibility on Extent or Scale of the Services

In no circumstances shall the additions or deletions of the scope of supply and delivery in any way vitiate or invalidate the Contract. The Provider shall have no claim for compensation for loss (whether direct, indirect or consequential) whatsoever in respect of such addition or deletion made pursuant to this Clause. The Provider is deemed to have made all necessary allowance for any additional time, manpower, and costs and expenses arising from or in connection with such additions or deletions.

14. Sub-contracting

The Provider is prohibited from transferring, sub-letting, sub-contracting or assigning, directly or indirectly, any rights or duties under the Contract and/or all or any portion of the Contract to any person or persons or companies, unless the prior written permission of HSITPL and/or its representative (i.e., HSITPL Representative, as appointed according to Clause 20 below) is obtained. In the event that written permission of HSITPL is provided to the Provider, the Provider's right to transfer, sub-let, sub-contract or assign, directly or indirectly, shall not in any way relieve it from any obligations under the Contract.

15. Payment Schedule

a) Subject to the work done to the satisfaction of HSITPL and any applicable variation made in accordance with Clause 13, payments due under the Contract will be made as per this clause. Please note the payment procedure in this clause is for reference only and does not amount to any representation and warranties. Tenderers shall not rely on any information set out in this clause.

b) The Provider shall submit a detailed monthly invoice to HSITPL within ten (10) Business Days after the end of each calendar month. Upon receipt of each invoice, HSITPL shall review it. If HSITPL considers such invoice is consistent with the terms of the Contract, HSITPL shall approve the said invoice, and payment shall be made to the Provider according to the approved invoice.

c) HSITPL reserves the right to withhold or adjust the payment if: (i) the monthly invoice is found to be inaccurate and/or incomplete; and/or (ii) any amount is deductible pursuant to Paragraph 5.5.33(iv) of Tender Schedule 5. HSITPL shall have the sole and absolute authority to determine whether the quality of the maintenance service meet the agreed service standards and whether any additional charge incurred is reasonable.

d) The Provider acknowledges and agrees that payment is contingent upon satisfactory performance and adherence to the terms and conditions of the Contract. HSITPL retains the right to terminate the Contract and withhold payment if the Provider consistently fails to meet the agreed service standards and/or breaches any provisions of the Contract.

e) HSITPL shall be entitled to deduct from any monies due to the Provider under the Contract any and all amounts of any debt due from the Provider to HSITPL.

16. Price Proposal

a) Tenderers shall propose a tender price ("**Total Contract Amount**") comprising unit rate for providing the Services by completing Tender Schedule 4. For information, the technical

specifications for the Services are listed in Tender Schedule 5: Requirement Specifications.

b) The Total Contract Amount shall remain fixed and binding throughout the Contract period. Tenderers shall take into account the anticipated price inflation, deflation and price fluctuations within the Contract period. Tenderers are deemed to have taken into account the above considerations and shall ensure that the prices quoted in Tender Schedule 4 are accurate before submitting their Tender. Under no circumstances will HSITPL entertain any request or claim for price adjustment in respect of the above considerations.

17. <u>Insurance</u>

a) The Provider shall, for the full term of the Contract, have in place the following insurance policies at its own cost with reputable insurer(s), on terms which are satisfactory to HSITPL, **in the joint names of HSITPL** as the insured party, and fully comply with the laws of the Hong Kong Special Administrative Region ("**HKSAR**"):

(i) Contactors' all risks insurance for the sum of at least HK$30,000,000 for any one accident and unlimited in the amount for the period of insurance;

(ii) Employees' compensation insurance in the sum of not less than HK$200,000,000 of any one event.

b) The insurance for the works shall cover the period from the commencement date of the Contract ("**Commencement Date**") until and extended to cover the date of expiry of the Contract and until such time as no further works as being carried out.

c) HSITPL may from time to time require the Provider to maintain any insurance policies against other insurable risks, which reasonable costs and expenses would be reimbursed by HSITPL provided that such costs and expenses are approved by HSITPL in writing.

d) In addition to maintaining the required insurance policies, the Provider shall hold HSITPL harmless from any loss, damage, cost, expense, liability etc. and (without prejudice to the obligations to indemnify HSITPL as stipulated in Clause 9 of the PO T&C as defined in Part II below) fully indemnify HSITPL and HSITPL Representatives for any loss, damage, cost, expense, liability etc. that may result directly or indirectly from the negligence of the Provider, its employees, agents, servants or any tiers of sub-contractors (if permitted as per Clause 14 above) in the carrying out of its obligations under the Contract.

e) The Provider is liable for all policy excesses / deductibles under the insurance policies maintained pursuant to this clause.

f) The Provider should produce satisfactory evidence to HSITPL prior to the Commencement Date showing that the insurances referred to in this clause have been affected and are in force, including but not limited to, producing a certificate of insurance. If the Provider fails upon reasonable request to produce satisfactory evidence to HSITPL or HSITPL Representatives, HSITPL may affect and keep in force such insurance policies and pay such premium or premiums as may be necessary for that purpose, and from time to time deduct the amount so paid from any monies due or to become due to the Provider or recover such amount from the Provider. If the Provider fails to produce any such satisfactory evidence as requested by HSITPL or HSITPL Representatives, HSITPL reserves the right to terminate the Contract.

18. Termination

a) Without prejudice to and in addition to any other rights and remedies under the Contract or in law which HSITPL may have, HSITPL may at any time during the Contract period, terminate the Contract in any of the following events:

(i) immediately on notice, if the Provider (a) becomes insolvent, enters into liquidation either compulsory or voluntary (save for the purpose of reconstruction or amalgamation with prior approval of HSITPL), makes an assignment for the benefit of or enters into a scheme of arrangement with creditors, suffers or permits the appointment of a receiver, trustee in bankruptcy or administrator for all or part of its business or assets or if any encumbrances takes possession of any of its assets or suffers any execution to be levied upon its goods, or is unable to pay its debts; or (b) files for or becomes subject to any proceedings in bankruptcy, reorganization, arrangement of debt, insolvency, readjustment of debt, receivership or under any other law relating to insolvency or the protection of rights of creditors, or pursuant to the laws of any other jurisdiction becomes subject to the same or similar proceedings; or

(ii) the Provider or any of its directors, employees, agents, contractors and other personnel who are in any way involved in the Services commits any offence under the Prevention of Bribery Ordinance (Cap.201), or commits any other criminal offence which in the opinion of HSITPL has affected the Provider's abilities to perform the Contract; or

(iii) the passing of any resolutions, the initiation of any proceedings, or the making of any order which may result in the winding up, or dissolution, insolvency, administration, reorganization or reconstruction of the Provider, or the appointment of a receiver, provisional liquidator, liquidator, administrator, administrative receiver, conservator, custodian, trustee or similar officer of the Provider or of any or all of the Provider's assets or revenues, or if the Provider makes an assignment for the benefit of or composition with its creditors generally or threatens to do any of the above, or any event occurs under the laws of any jurisdiction that has a similar or analogous effect; or

(iv) the Provider has failed to commence the Services on the Commencement Date, or has failed to fulfil HSITPL's due diligence requests; or

(v) the Provider has, without the prior written approval of HSITPL, directly or indirectly, assigned, transferred, sub-contracted or otherwise disposed of any or all of its interests, rights, benefits or obligations under the Contract to any other third party or purported to do so; or

(vi) the Provider fails to submit any reports, financial accounts or other documents in accordance with the Contract, or any of the data, facts or information represented to or provided by the Provider to HSITPL about the Services or the Contract is incomplete, incorrect, untrue, inaccurate or misleading; or

(vii) the Provider engages in any conduct which is reasonably considered by HSITPL to be prejudicial to the Services, or that adversely reflect on the commercial integrity of the Provider; or

(viii) the Provider's financial position deteriorates to such an extent that in HSITPL's opinion

the Provider's capability to adequately fulfil its obligations under the Contract has been placed in jeopardy; or

(ix) the Provider stops or suspends payment to its creditors generally, or is unable or admits its inability to pay debts generally as they fall due or is declared or becomes bankrupt or insolvent; or

(x) the Provider's use of any intellectual property rights for the purpose of or otherwise in connection with the performance of the Contract is held by a court or is alleged to constitute an infringement of any third party's intellectual property rights.

For the purpose of this Clause 18, the term "**control**" (including the correlative terms "**controlling**", "**controlled by**", and "**under common control with**") shall mean possession directly or indirectly, through one or more intermediaries, of the power to direct or cause the direction of management and policies of a person, whether through ownership of voting securities or other equity interests, or by shareholders' agreement or otherwise.

b) In the event of termination of the Contract as aforesaid, HSITPL shall only be liable for a reasonable portion of the fees stated in Tender Schedule 4 on a quantum meruit basis based on goods that have been delivered or services that have been performed up to the date of termination and accepted by HSITPL without dispute. Upon necessary payment by HSITPL, the Provider shall immediately (i) deliver to HSITPL all correspondence, materials, presentations, documents, papers, disks, tapes and software storage of any kind relating to the Services and property belonging to HSITPL which may be in the Provider's possession or under its control, and (ii) take immediate actions to bring the Services to an end in an orderly manner. Any amount paid in respect of such part of the Services which has not been performed at the date of termination shall be refunded to HSITPL.

c) If the Contract is terminated pursuant to this Clause 18(a), the Provider shall indemnify HSITPL for and against all loss (including loss of bargain), damage, cost and expenses suffered by HSITPL as a result of the termination (including any additional costs in engaging another contractor to perform the Services or the undelivered part of the Services) and/or any demands or legal proceedings that may be brought against HSITPL by relevant government authorities or other third parties. The Provider shall pay any such sum as requested by HSITPL forthwith upon HSITPL issuing written notice(s) to that effect.

d) Notwithstanding anything provided herein to the contrary, HSITPL may, at any time at its option, terminate the Contract by giving the Provider not less than thirty (30) calendar days' written notice. In such event, the Provider shall be entitled to receive payment for such part of the Services properly carried out up to the date of termination and accepted by HSITPL. Any amount paid in respect of such part of the Services which has not been performed at the date of termination shall be refunded to HSITPL.

e) Any term of the Contract that expressly or by implication is intended to come into or continue to be in force on or after termination of the Contract shall continue to remain in full force and effect.

19. Use of names and logos

The Provider shall not use the name, logo or corporate identity of HSITPL and HSITPL Representative for any purpose without the prior written consent of HSITPL or HSITPL Representative (as the case may be); provided that nothing herein shall prohibit HSITPL and

HSITPL Representative from referring the name of the Provider as the service provider of services to be provided under the Contract.

20. Representative

a) Representative(s) will be appointed by HSITPL ("**HSITPL Representative**") to act on behalf of HSITPL in matters in connection with the Contract. HSITPL has the right to change the HSITPL Representative in its sole and absolute discretion, by providing notice in writing to the Provider.

b) HSITPL may, from time to time and in its sole and absolute discretion, specify which function(s), power(s) and/or authority(ies) is/are delegated to the HSITPL Representative by written notice to the Provider. Such delegation may be revoked by HSITPL at any time by providing written notice to the Provider.

PART II: Purchase Order Terms and Conditions

HSITPL shall issue a purchase order ("**PO**") to the Provider on the terms as set out in the General Terms and Conditions for Purchase Orders ("**PO T&C**") which is available on HSITPL's website or provided separately by HSITPL in PDF file format. Tenderer must read the PO T&C carefully before submitting the Tender.

In the event that the Tenderer wishes to propose any revisions to the terms of the PO T&C, the Tenderer should set out such proposed revisions in the technical proposal of the Tender but HSITPL is not bound to accept any of such proposed revisions. For the avoidance of doubt, such proposed revisions shall not form part of the PO. HSITPL will not accept any proposed revisions to the PO T&C that are not submitted together with the technical proposal and/or come to HSITPL's attention after the Tender Closing Date.

HSITPL reserves the right to disqualify any Tenderer that submits any proposed revisions to the PO T&C in the price proposal or proposes revision to the PO T&C after the Tender Closing Date.

PART III: Submission Requirements

The Tenderer is required to return a complete set of the following documents to HSITPL before the Tender Closing Date.

Price Proposal		Tender Schedule No.
1.	Price Schedule	4

Technical Proposal		Tender Schedule No.
1.	Tender Submission Information	1
2.	Non-collusive Tendering Certificate	2
3.	Form of Tender	3
4.	Requirement Specifications	5
5.	Proposed Solution for Tender	6

Number of documents required:

a) 4 sets of the "Technical Proposal" in hard copies;

b) A USB with an electronic copy of the "Technical Proposal" and presentation deck without any price factor in PDF format; and

c) 1 set of the "Price Proposal", i.e., the Price Schedule (Tender Schedule 4), in hard copy.

Tender Schedule 1: Tender Submission Information

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

Dear Sir / Madam,

"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"

We provide the below contact information for this Tender:

Representative:	
Job Title:	
Contact Phone Number:	(Office)
	(Mobile)
Contact Email:	

Tender Schedule 2: Non-collusive Tendering Certificate

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

Dear Sir / Madam,

Non-collusive Tendering Certificate for
"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"
(the "**Contract**")

1. We, _____ of
(name(s) of the Tenderer(s))

_____
(address(es) of the Tenderer(s))

refer to the tender for the Contract ("**Tender**") and our bid in relation to the Tender.

Non-collusion

2. We represent and warrant that in relation to the Tender:

a) Our bid was developed genuinely, independently and made with the intention to accept the Contract if awarded;

b) Our bid was not prepared with any agreement, arrangement, communication, understanding, promise or undertaking with any person (including any other tenderer or competitor) regarding:

(i) prices;

(ii) methods, factors or formulas used to calculate prices;

(iii) an intention or decision to submit, or not submit, a bid;

(iv) an intention or decision to withdraw a bid;

(v) the submission of a bid that does not conform with the requirements of the Tender;

(vi) the quality, quantity, specifications or delivery particulars of the products or services to which the Tender relates; and

(vii) the terms of the bid,

and we undertake that we will not, prior to the award of the Contract, enter into or engage in any of the foregoing.

3. Paragraph 2(b) of this certificate shall not apply to agreements, arrangements, communications, understandings, promises or undertakings with:

   a) HSITPL;

   b) a joint venture partner, where joint venture arrangements relevant to the bid exist and which are notified to HSITPL;

   c) consultants or sub-contractors, provided that the communications are held in strict confidence and limited to the information required to facilitate that particular consultancy arrangement or sub-contract;

   d) professional advisers, provided that the communications are held in strict confidence and limited to the information required for the advisers to render their professional advice in relation to the Tender;

   e) insurers or brokers for the purpose of obtaining an insurance quote, provided that the communications are held in strict confidence and limited to the information required to facilitate that particular insurance arrangement; and

   f) banks for the purpose of obtaining financing for the Contract, provided that the communications are held in strict confidence and limited to the information required to facilitate that financing.

Disclosure of sub-contracting arrangement and beneficial ownership

4. We represent and warrant that there is no intended sub-contracting arrangement relating to the Tender, including those which are to be entered into after the Contract is awarded.

   OR*

   We represent and warrant that the following sub-contracting arrangements are all the intended sub-contracting arrangements relating to the Tender, including those which are to be entered into after the Contract is awarded:

   [Please set out the details of such sub-contracting arrangements here. Please use supplemental sheets where appropriate.]

   We understand that we are required to continue to disclose any of such sub-contracting arrangements to HSITPL as and when they arise.

5. We represent and warrant that the following is our beneficial ownership:

   (For a company other than a listed company or exempted company[1])
   [Please disclose the significant controllers register here, as defined in the Companies Ordinance, Cap. 622. Please use supplemental sheets where appropriate.]

   OR*

   (For a sole proprietorship or partnership)
   [Please disclose details of beneficial owner(s) here, including their name and the nature of their control over the firm. Please use supplemental sheets where appropriate.]

   OR*

   (For listed company)
   We are a listed company in Hong Kong and our corporate ownership has already been disclosed in the public domain.

6. We understand that HSITPL may request us to disclose further details regarding our shareholders or parent companies, or any other related, associated or controlling entities, to HSITPL. We agree to disclose such details to HSITPL if so requested, subject to such requests being reasonable in the circumstances.

Consequences of breach or non-compliance

7. We understand that in the event of any breach or non-compliance with any representations, warranties and/ or undertakings in this certificate, HSITPL may, at its discretion, invalidate our bid, exclude us in future tenders, pursue damages or other forms of redress from us (including but not limited to damages for delay, costs and expenses of re-tendering and other costs incurred), and/or (in the event that we are awarded the Contract) terminate the Contract.

8. Under the Competition Ordinance, bid-rigging is serious anti-competitive conduct. Further, any breach of any of the representations, warranties and/or undertakings given in this certificate is capable of amounting to a criminal offence and rendering our relevant personnel liable to criminal prosecution (for instance, for the offence of conspiracy to defraud and upon conviction shall be liable to imprisonment for 14 years). We understand that, notwithstanding any provisions regarding disclosure of documents and information, HSITPL may, at its discretion, report all suspected instances of anti-competitive conduct to the Competition Commission (the "**Commission**") and/or other relevant authorities and provide the Commission and/or other relevant authorities with any relevant information, including but not limited to information on our bid and our personal or corporate information.

[1] An exempted company is one which is not required to keep a register of its significant controllers (see further sections 653A (definition of "applicable company") and 653H of the Companies Ordinance).

Signed for and on behalf of: _____
(Company Name)

Signature with Company Chop: _____
(Authorized Signature)

Name & Position: _____

Date: _____

Additional signature blocks will need to be used where the Tenderer is comprised ofmultiple parties.

Tender Schedule 3: Form of Tender

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

Dear Sir / Madam,

"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"

1. We undertake that if our Tender is accepted, to commence the Services and complete and deliver the Services within the time stated in the Tender Documents.

2. We agree that this Tender shall be valid for a period of **six (6)** months from the Tender Closing Date specified in the Tender Documents. We agree that, should HSITPL so request in writing, we shall abide by this Invitation to Tender for a further **three (3)** months, and the Tender may be accepted by HSITPL at any time before the expiration of this extended period. If an award cannot be made within the Tender Validity Period (or extended Tender Validity Period), a request may be made to some or all of the Tenderers to further extend the Tender Validity Period, at which time they may elect to extend or withdraw their Tender or may agree a further extended Tender Validity Period with HSITPL in writing.

3. We confirm that this Tender has taken into consideration all tender addenda issued to us (if any) prior to the date hereof.

4. We understand, unless and until a purchase order is issued by HSITPL to us, this Tender, together with your written acceptance thereof, shall constitute a binding agreement between us. The Tender should always form part of the binding agreement between HSITPL and us, while the order of precedence will be lower than the purchase order. We undertake to abide by the terms of the Purchase Order Terms and Conditions enclosed with the Tender Documents in the event that our proposed revisions (if any) to the Purchase Order Terms and Conditions are not accepted by HSITPL.

5. We understand and agree that HSITPL is not bound to accept the lowest or any tender you may receive.

6. We understand and agree that HSITPL is not responsible for any cost or expense incurred for and in connection with preparing the Tender and/or any presentation or demonstration given by us.

7. We confirm that we are not subject to any actual or potential conflict of interest save to the extent already expressly disclosed by us to HSITPL and we undertake to notify HSITPL immediately should any conflict arise.

8. We understand and agree that we may be disqualified if we fail to submit all the documents listed in Clause 4 k) of Part I of the Tender Documents together with the Technical Proposal.

9. We certify that, to the best of our knowledge and belief, all information and documents provided in and submitted with the Technical Proposal are true, accurate, and complete. Further, we

understand and agree that if any information or document provided in or submitted with the Technical Proposal is found to be untrue, inaccurate, incomplete or misleading, HSITPL may, without limiting HSITPL's rights and remedies therein or at law, invalidate, reject and/or disqualify our Tender.

Signed for and on behalf of: _____

(Company Name)

Signature with Company Chop: _____

(Authorized Signature)

Name & Position: _____

Date: _____

Additional signature blocks will need to be used where the Tenderer is comprised ofmultiple parties.

Tender Schedule 4: Price Schedule

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

Dear Sir / Madam,

"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"

1. The quotation shall be valid for **six (6)** months from the Tender Closing Date specified in the Tender Documents. We agree that, should HSITPL so request in writing, we shall abide by this Invitation to Tender for a further **three (3)** months, and the Tender may be accepted by HSITPL at any time before the expiration of this extended period.

2. We agree that HSITPL reserves the right to modify, amend or revise any Requirement Specifications and/or terms and conditions stated in the Tender Documents.

3. The price indicated in the table below covers all the items specified in the Requirement Specifications of the Tender Documents.

4. The Total Contract Amount quoted in this Tender Schedule 4 is inclusive of all costs, rates and/or charges which we will incur in the provision of the Services.

5. We acknowledge that the Total Contract Amount quoted in this Tender Schedule 4 shall (i) remain fixed and binding throughout the Contract period, (ii) take into account anticipated inflation, deflation and price fluctuations within the Contract period, and (iii) be accurate. Further, we acknowledge that under no circumstances shall HSITPL consider any request or claim for adjustment of the Total Contract Amount in respect of the foregoing.

6. We acknowledge that HSITPL will not accept any proposed revisions to the General Terms and Conditions for Purchase Orders ("**PO T&C**") that are not submitted together with the technical proposal and/or come to HSITPL's attention after the Tender Closing Date. In any event, HSITPL is not bound to accept any of such proposed revisions.

7. We acknowledge that HSITPL reserves the right to disqualify any Tenderer that submits any proposed revisions to the PO T&C in the price proposal or proposes revision to the PO T&C after the Tender Closing Date.

Item	Description	Unit Price [a]	Quantity [b]	Sub-total *= [a] * [b]*
1	Supply labour with all necessary tools to carry out the comprehensive maintenance for the below MVAC systems or equipment for 24 months accordance with the Requirement Specifications: -	-	-	-
1.1	Fan coil units		24 months	
1.2	PAU / AHU		24 months	
1.3	Fire dampers		24 months	
1.4	Split type units / variable refrigerant volume systems / window type AC unit		24 months	
1.5	Ventilation fan		24 months	
1.6	Variable air volume / constant air volume system		24 months	
1.7	Air-cooled chiller		24 months	
1.8	Staircase pressurization system		24 months	
Total Contract Amount:		HK$		

We offer to provide the services to HSITPL at the prices quoted above and in accordance with the requirements and the terms and conditions stated in the Tender Documents. Acceptance of this offer shall be evidenced by the issuance of a purchase order by HSITPL.

_____

Authorized Signature (with company chop)

Name & Position: _____

Company Name: _____

Date: _____

Tender Schedule 5: Requirement Specifications

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"

The scope and specific requirements of the Services which the tenderer ("**Tenderer**") should provide are listed below. The Tenderer shall propose solutions (with detailed explanation) if his proposed items cannot meet any of such scope and/or requirements.

5.1 Statement of Purpose

HSITPL would like to invite an experienced service provider to provide MVAC systems maintenance services for all MVAC systems at HSITP. The Tenderer is expected to provide the Services as set out in Paragraph 5.5 of this Tender Schedule 5.

5.2 About HSITPL

HSITPL, a wholly owned subsidiary of Hong Kong Science and Technology Parks Corporation, is vested with the responsibility to develop, operate, maintain, and manage the HSITP.

HSITP strives to serve as a world's knowledge hub and innovation & technology ("**I&T**") centre, converging enterprises, research & development ("**R&D**") institutions and higher education institutions from local, Mainland and overseas, which can connect upstream and midstream research to downstream market, further enhancing collaboration among industry, academic and research sectors.

HSITP focuses on six I&T pillar industries including life and health technology, artificial intelligence and data science, new materials, new energy, robotics and microelectronics.

With the size of approximately 87.7 hectares in the Lok Ma Chau Loop, the Park is a large-scale and long-term project in Hong Kong, which will be developed in two phases.

Phase 1 will be developed in three batches, i.e., Batch 1, Batch 2 and Batch 3. The first development batch, Batch 1, has been further sub-divided into Batch 1A, Loop Academy One (formerly known as Building 1), Batch 1B and Batch 1C. Batch 1 is being developed by HSITPL which consists of eight buildings with a total gross floor area of approximately 116,000 square metres. Batch 1A consists of three buildings: Buildings 8 & 9 (wet laboratory enabled) and Building 11 (talent accommodation).

5.3 The Brief

Tenderers are invited to provide MVAC systems maintenance services to maintain the normal operation of MVAC systems. Labour together with all necessary tools required for carrying out comprehensive maintenance, shall be provided.

5.4 Project Timeline (Tentative)

Tender invitation	19 November 2026
Tender submission deadline	17 December 2026
Presentation	Week of 28 December 2026
Award of the Contract	January 2027
Commencement of the Contract	11 January 2027 (subject to further confirmation)

5.5 Scope of Services

5.5.1 The Provider shall provide labour and materials, together with all necessary tools and equipment, to carry out periodic comprehensive maintenance and emergency call-out services for MVAC systems. The Contract period shall be two (2) years, and the tentative Commencement Date shall be 11 January 2027, subject to confirmation after Contract award.

5.5.2 Unless stated elsewhere in the Tender Documents, all workmanship, materials and standards shall conform to the most recent version of ordinances, specifications, and codes of practice in Hong Kong, including but not limited to those set out below, as applicable:-

(i) the Air Pollution Control Ordinance (Cap. 311), the Water Pollution Control Ordinance (Cap. 358), the Noise Control Ordinance (Cap. 400), the Waste Disposal Ordinance (Cap. 354), the Pesticides Ordinance (Cap. 133) the Ozone Layer Protection Ordinance (Cap. 403) and the Electricity Ordinance (Cap. 406);

(ii) the General Specification for Building Services Installation in Government Buildings of the HKSAR (in particular, Part 6, "Air Conditioning, Refrigeration and Mechanical Ventilation Installation"), issued by the Architectural Services Department of the Government of the HKSAR, and all current amendments;

(iii) the Code of Practice for Electricity (Wiring) Regulations and all associated regulations and requirements, issued by the Electrical and Mechanical Services Department ("**EMSD**");

(iv) the Code of Practice for Energy Efficiency of Building Services Installation, issued by EMSD;

(v) the General Guidelines on Minor Works Control System and Technical Guidelines on Minor Works Control System, both issued by the Buildings Department; and

(vi) Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment, circulars / letters issued by Fire Services Department;

(vii) Code of Practice for Fire Safety in Buildings 2011 (2024 Edition) issued by Buildings Department;

(viii) Practice Notes for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers) issued by Buildings Department;

(ix) any other ordinances / circulars / technical specifications / guidelines on MVAC systems by The Government of the HKSAR, the American Society of Heating, Refrigerating and Air-Conditioning Engineers (i.e. ASHRAE), the Chartered Institution of Building Services Engineers (i.e. CIBSE) and the Building Engineering Services Association (i.e. BESA).

5.5.3 The following provisions regarding workmanship, materials and standards shall also apply:

(i) All Plant, materials, and workmanship shall be of the respective character, quality or kind required by the Contract and in accordance with HSITPL's instructions and shall be subjected to such examinations, measurements or Tests as the Contract shall require or as ordered by HSITPL or HSITPL Representative at the place of manufacture, or on the Site, or at such other place or places as may be specified in the Contract, or at all or any such places. All Plant and materials shall be of recent manufacture and not previously used.

For the purposes of this Paragraph:

"Plant" means the machinery, equipment and apparatus of all kinds to be supplied and installed by the Provider for the Services.

"Test" means any test prescribed by the Contract or instructed by HSITPL or HSITPL Representative and includes commissioning of the Services and any commissioning test.

"Site" means the lands and other places provided by HSITPL for the purpose of the execution of the Services.

(ii) The Provider shall provide such assistance, instruments, machines, labour and other facilities as may be necessary for examining, measuring or testing any work and the quality, weight or quantity of any Plant and/or material used and, before incorporation into the Services, shall supply for examining, measuring or testing such samples of Plant and/or materials as may be selected or required by HSITPL or HSITPL Representative.

(iii) The Provider shall bear the expense and costs of any examination, measurement or Test and of complying with the requirements of sub-paragraph (ii) of this Paragraph, including without limitation any transportation costs and shall reimburse HSITPL in respect of the costs in attending such examination, measurement or Test, if such examinations, measurements or Tests and all repetitions thereof are clearly intended or provided for in the Contract.

(iv) If any examination, measurement or Test not so intended or provided for in the Contract is ordered by HSITPL or HSITPL Representative, then such expense and costs of such examination, measurement or Test including those of HSITPL's attendance shall be borne by the Provider if the examination, measurement or Test shows the Plant, materials or workmanship not to be in accordance with the Contract or with HSITPL's instructions but otherwise such expense and costs shall be borne by HSITPL.

(v) In the event that any Test shows that the Provider has failed to comply with the requirements of the Contract or with HSITPL's instructions in respect of Plant, materials or workmanship, the Provider shall propose and carry out at his own expense further or any other Tests as HSITPL may approve.

(vi) Sub-paragraphs (iv) and (v) of this Paragraph shall apply to any series of Tests carried out on any part of the Services the results of which indicate that in the opinion of HSITPL the Provider has failed to comply with the requirements of the Contract or with HSITPL's instructions in respect of Plant, materials or workmanship notwithstanding there being satisfactory individual Tests included in any such series of Tests.

(vii) Notwithstanding the above, testing carried out in HSITP in connection with the Services shall be free of charge.

(viii) If the Provider is required by the Contract or ordered by HSITPL to carry out any examination, measurement or Test, then the Provider shall give 7 calendar days' notice to HSITPL specifying the procedures to be adopted, as well as the time and location of the examination, measurement or Test.

5.5.4 The Provider shall deploy technicians at regular intervals to inspect, clean and lubricate the plant equipment, with no additional cost for such services and material required, in accordance with this Tender Schedule.

5.5.5 A logbook shall be provided, and retained in the plant room or Facilities Management Office ("**FMO**") and be kept up to date by the Provider. Records shall be made at the time of the occurrence and shall include, but not be limited to, the dates, times, and details of all operations, faults, corrective actions taken, routine servicing, maintenance, periodic operations, and the names and signatures of workers or supervisors.

5.5.6 The Provider shall keep a clear and legible record of all fault callouts and shall submit this record within three (3) calendar days upon request for inspection. The record shall indicate the date, time of callout, persons attending, brief description of fault and subsequent time of clearance for each occasion. The record will be returned to the Provider after perusal by HSITPL Representative but shall subsequently be submitted and kept by HSITPL Representative at the end of the Contract period.

5.5.7 The Provider shall report and recommend to HSITPL about equipment condition and necessary rectification, replacement and preventive measures regularly. The Provider shall submit service report after each and every routine maintenance to enable HSITPL to monitor the progress of the maintenance services. The Provider shall carry out a survey on annual basis and submit report detailing the condition of each piece of equipment including their lifetime.

5.5.8 The Provider shall keep complete set of tools and equipment ready on hand to maintain the safe and satisfactory working condition and operation for emergency repairing and replacement works. The Provider shall provide technical support from the original manufacturer of the equipment when carrying out repair and maintenance works. Alternative products shall not be used subject to the manufacturer's warranty that the safe and satisfactory working condition can be guaranteed.

5.5.9 The Provider shall maintain an emergency call centre and meet the following performance requirements after receiving an emergency call from HSITPL:-

(i) to confirm the time and date for execution of work within fifteen (15) minutes.
(ii) to monitor and report the progress, reasons and required maintenance work and suggest subsequent remedial measures for incident prevention.
(iii) to report the completion of emergency call attendance within one (1) calendar day.

5.5.10 For all major incidents that HSITPL consider necessary, the Provider shall be required to submit major incident reports within forty-eight (48) hours. For the purposes of the Contract, major incidents shall mean any incident involving the plant that results in, or has the potential to result in: (i) death or personal injury requiring medical attention; (ii) a complete failure of the equipment causing a service disruption for more than two (2) hours; (iii) significant damage to the equipment or property; or (iv) any breach of statutory safety regulations or enforcement notices issued by local authorities.

5.5.11 All instruments used in measurement shall be calibrated and certified by the Hong Kong Laboratory Accreditation Scheme (i.e., HOKLAS) accreditation laboratory. The calibration certificate shall be submitted for approval and record before used. No testing shall be carried out with uncalibrated instruments.

5.5.12 The Provider shall carry out the Services in a manner which, as far as reasonably practicable, eliminates or reduces pollution to the environment.

5.5.13 The Provider shall take all reasonable steps to implement its own environmental plan in carrying out the Services. The plan shall set out the Provider's arrangement, in respect of environmental matters, including but not limited to the following where applicable.

(i) monitoring and control of dust emissions;
(ii) monitoring and control of noise emissions;
(iii) monitoring and control of wastewater emissions;
(iv) storage and disposal of solid waste;
(v) storage and handling of dangerous goods;
(vi) storage, handling and disposal of chemical and hazardous waste;
(vii) minimization and recycling of waste; and
(viii) rodent, vermin and pest control.

5.5.14 The Provider shall be responsible for the safe and controlled disposal of all waste arising from the carrying out of the Services.

5.5.15 The Provider shall take all practical measures and precautions to avoid nuisance or disturbance arising from the carrying out of the Services. The Provider shall:

(i) where at all possible, suppress the nuisance at source rather than abate the nuisance after it arises.
(ii) select, operate and maintain all Provider's equipment and/or plant to minimise nuisance or disturbance, including the release of pollutants.
(iii) repair promptly all leakages and refrain from using any Provider's equipment and/or plant which leaks.

5.5.16 Demolition, drilling and other excessively noisy operations, if required, shall be carried out at time to be agreed with HSITPL Representatives.

5.5.17 The Provider shall carry out the Services in such a manner as to minimize any adverse impact on the quality of the water within and in the vicinity of the buildings.

5.5.18 The Provider shall carry out the Services in such a manner as to minimize any adverse impact on air quality.

5.5.19 The Provider shall at all times maintain clean and tidy so that there is no loose debris, packaging or other material capable of being transported by wind.

5.5.20 The Provider shall ensure that:

(i) all solid waste is placed within appropriate bins or other containers which are properly covered, closed or sealed to prevent attraction of vermin and spillage during storage or transportation.
(ii) all wet waste shall be disposed of as soon as reasonably practical and shall not, in normal conditions, remain within the Site for more than 24 hours.
(iii) an appropriate waste collection point shall be designated for the collection and short-term storage of waste.
(iv) accumulation of waste within the building shall be minimized as far as practicable.

5.5.21 Sub-contracting any Services to third party without HSITPL's prior written approval is strictly prohibited.

5.5.22 The Provider shall attend or be represented by its staff, at all meetings convened by HSITPL to which the Provider is required to attend and shall advise and assist HSITPL on matters relating to the Contract at no additional cost.

5.5.23 All engine body, floor, wall cleaning work is handled by the Provider.

5.5.24 The Provider shall regularly carry out the safety audits of on-site working areas, particularly when accessing high-risk spaces such as machine tops for repair and maintenance work. The Provider shall report to HSITPL any safety non-conformance identified.

5.5.25 The Provider shall strictly comply with all statutory requirements at all times when carrying out any repair and maintenance work.

5.5.26 [Not used]

5.5.27 The Provider shall assist and coordinate with the extra low voltage system ("**ELV**") information technology ("**IT**") system and/or plumbing and drainage ("**P&D**") maintenance contractor(s) and attendance on site for any maintenance and repair work for the existing ELV, IT and P&D installation at no additional cost.

5.5.28 The Provider shall assist and coordinate with the mobile phone service provider and attend on site for any maintenance and repair work for the existing mobile phone service installation inside the plant room at no additional cost.

5.5.29 The Provider shall be responsible for applying to the relevant authority for all required permits, including submitting the application forms, paying the relevant fees, and displaying the valid permits.

5.5.30 The Provider shall co-ordinate with other contractors appointed by HSITPL for necessary works (e.g., interfacing with, fire services system, generator, building management system

("**BMS**"), periodic test for fixed electrical installations standby at night work, etc.) and attend the joint site inspections (e.g., handover for rectification work by other contractors) and such works that have been included in the Contract.

5.5.31 The Provider shall keep the working area clean and clear of all rubbish.

5.5.32 Execution of Works & Working Hours

(i) Off-peak scheduling: to minimize disruption to building operations, the Provider shall carry out inspections, testing, adjustments, and maintenance services outside normal office hours and Business days at times specified by the HSITPL Representative

(ii) Coordination: the Provider shall ensure minimal interruption to the functioning of the MVAC systems and must coordinate and obtain prior clearance from the HSITPL Representative whenever any equipment shutdown is required.

(iii) Housekeeping: the Provider shall maintain all working areas and plant rooms in a clean, neat, and tidy condition, free of rubbish and debris resulting from the works.

5.5.33 Emergency Call-Outs & Service Level Standard

(i) The Provider shall provide emergency call-out and repair services. Service response and performance standards are defined as follows:

Service Category	**Operational Window**	**Response Time**	**Labor Charges**
Routine emergency call-out	Office hours (8:00 a.m. to 6:00 p.m. from Monday to Saturday, except public holidays*)	Within **four (4) hours** of receipt of call	No extra charge to HSITPL
Critical breakdown emergency call-out	24/7 (day and night)	Within **two (2) hours** of receipt of call; overnight work if required	No extra charge to HSITPL

Note:

* Public holiday means a day declared as a general holiday in Hong Kong under the General Holidays Ordinance (Cap. 149).

(ii) All routine emergency call-out services shall be suspended when typhoon signal no. 8 or above is in force, a black rainstorm warning is in force, or an announcement on extreme conditions is issued in Hong Kong. Such routine emergency call-out services shall be resumed within four (4) hours after the relevant typhoon signal, rainstorm warning and/or announcement on extreme conditions has been cancelled.

(iii) All critical breakdown emergency call-out services shall be suspended when typhoon signal no. 8 or above is in force, a black rainstorm warning is in force, or an announcement on extreme conditions is issued in Hong Kong. Such critical breakdown emergency call-out services shall be resumed within two (2) hours after the relevant typhoon signal, rainstorm warning and/or announcement on extreme conditions has been cancelled.

(iv) If the Provider fails to comply with the applicable response time specified in Paragraphs 5.5.33(i), (ii) and (iii) above, HSITPL shall be entitled to deduct **HK$1,000**

for each of such non-compliance from any payment due or becoming due to the Provider under the Contract.

5.5.34 The Provider shall provide necessary calibrated instruments, to carry out preventive maintenance ("**PM**"), corrective maintenance ("**CM**") and emergency call maintenance ("**EM**") services, included but not limited to insulation tester, ammeter, hot-wire anemometer, water flow meter and thermometer.

5.5.35 The Provider shall submit full set PM schedule, timeline and maintenance report template for review and approval by the HSITPL Representative within 2 weeks after the Commencement of the Contract.

5.5.36 The Provider shall submit and store the inspection report of PM, CM and EM after the work completion within 7 working days on cloud drive and hard drive with sufficient storage.

5.5.37 Repairing, replacement, and overhaul works

(i) The Provider shall undertake to repair and/or replace all defective equipment or parts of the systems identified during routine maintenance or upon instruction from HSITPL. The Provider shall submit a detailed repair list and formal quotation to HSITPL for approval within three (3) calendar days following routine maintenance.

(ii) HSITPL reserves the sole right and discretion to accept quoted prices for provisional repair / overhaul services or to instruct an independent third-party contractor to execute the works.

(iii) All materials and replacement parts used shall be sourced from technical specification approved by HSITPL.

(iv) The Provider shall monitor local stock of essential spare parts and consumables necessary and notify HSITPL of any replenishment requirements in a timely manner for prompt repair and replacement works.

5.5.38 Fan coil units ("**FCU**") maintenance schedule

(i) Monthly maintenance

- Clean air filter and return air grill of the said which are closely installed to the entrance.
- Observe any abnormal noise, grease bearing and moving part.
- Clean condensate drain pan, auxiliary drain pan (if any), condensation drain pipe, horizontal and vertical drain pipe riser, and floor drain to ensure no clogging and flooding (open-up the clean eye for flushing the drain pipe included).
- Check and clean air vent damper, mechanical linkage, louver, air grill, diffuser and air inlet.
- Check the operation and function of the control valve, actuator and isolating valve.
- Check flexible connection and condition of duct insulation.

- Check control device, wiring and motor running current.

(ii) Annual maintenance

- Clean the supply air grille, return air fill enclosure
- Observe any abnormal noise, grease bearing and moving part.
- Clean condensate drain pan, auxiliary drain pan (if any), condensation drain pipe, horizontal and vertical drain pipe riser, and floor drain to ensure no clogging and flooding (open-up the clean eye for flushing the drain pipe included).
- Check and tighten the screw for all cable terminals / control panel / junction box.
- Check the control device, wiring and running current.
- Remove rust and paint the casing and framework.
- Clean the coil and blower with high pressure water jet with water.
- Check the operation and function of the control valve, actuator and isolating valve.
- Check flexible connection and condition of duct insulation.
- Check and record the supply & return air temperature and room temperature.
- Check the ventilation / air conditioning control system ("**VAC**") function or manual override panel not limited to wiring, smoke detector and associated relay (if any).
- Coordinate with nominated fire services contractor to have on site checking for automatic fire alarm system ("**AFA**") system interface of VAC for compliance of statutory annual fire services installation system.

5.5.39 Ventilation fans ("**VF**")

(i) Monthly maintenance

- Check motor mountings, casing conditions, and ventilating louvers.
- Inspect fan blades, scrolls, and casings; clean as necessary.
- Check belt drive tension and pulley alignment; adjust or replace components as required.
- Check access panels for air leaks and ensure seals are intact.
- Check the fixings and effectiveness of anti-vibration mountings.
- Measure and record motor running currents; check control switch operations.
- Remove corrosion, repair paintwork, and lubricate bearings via external nipples / lubricators.

(ii) Half-yearly maintenance

- Shaft bearing lubrication.

(iii) Annual maintenance

- Clean and test motor windings; check and secure motor terminals and connections.
- Check the condition of motor brushes and replace them if necessary.
- Check and tighten the screw for all cable terminals / control panel / junction box.
- Check motor starter, control device, wiring, supply voltage and motor running current (full speed).
- Perform insulation test on electric motor.
- Check the variable speed drive ("**VSD**") function.
- Check the control circuit inside the local control panel for the VF including but not limited to control relays, timers, control fuses, control cables, overload relays and main contactors.
- Check the operation and function of the automatic air damper.
- Check the VAC function or manual override panel not limited to wiring, smoke detector and associated relay (if any).
- Coordinate with nominated fire services contractor to have on site checking for AFA system interface of VAC for compliance of statutory annual fire services installation system.

5.5.40 PAU / AHU

(i) Monthly maintenance

- Inspect all washable air filters; clean or replace them as required.
- Check pressure & temperature gauges.
- Check the fan and motor casing; grease and lubricate moving parts.
- Measure running amperes and compare against design specifications.
- Check for abnormal noise or vibration; replace bearings if required. Conduct Megger testing on motors if requested.
- Check and clean condensate drain pans, drain pipes, and floor drains to prevent choking and flooding.
- Test air dampers and examine flexible connections for leaks.

(ii) Half-yearly maintenance

- Lubrication of motor & shaft bearing
- Check the operation and function of the automatic air damper, energy control valve, control valve, actuator and isolating valve.

- Remove rust and paint the casing and framework (if any).
- Soap-clean the outer surfaces of the cooling coils, drain pan & strainer using a high-pressure jet washer.
- Check the VSD function.

(iii) Annual maintenance

- Inspect all main filters; clean or replace them as required.
- Examine fan blades; remove rust, wire-brush metal components, and treat with approved anti-corrosion paint.
- Check electrical starters, valves & motor and associated control equipment; replace as required.
- Check fan motors, controls, wiring insulation, and cable terminals for damage.
- Clean the energy wheels / enthalpy wheels with high pressure water jet with water.
- Replace the pre-filter, bag filter and v-belts.
- Check the VAC function or manual override panel not limited to wiring, smoke detector and associated relay (if any).
- Coordinate with nominated fire services contractor to have on site checking for AFA system interface of VAC for compliance of statutory annual fire services installation system.

5.5.41 Fire dampers

(i) Annual maintenance

- Clean off rust developed on fire dampers to ensure normal operations; apply anti-rust paint matching the existing color scheme.
- Lubricate fire damper hinges.
- Check all connections for tightness
- Supply and replace any defective fusible links and thermal actuator with new assemblies and matching accessories.
- Label each fire damper clearly with the checking date and company chop.
- Submit a completion report complete with before-and-after photographs and a comprehensive defect list.
- Issue and send an official certificate in accordance with the Building (Ventilation Systems) Regulations to the Director of Fire Services, forwarding a copy to the employer within 7 days of completion. The total count of checked fire dampers must be clearly stated on the ventilation certificate.

5.5.42 Window type / split type units / variable refrigerant volume systems

(i) Monthly maintenance

- Clean condensate drain pan, auxiliary drain pan (if any), condensation drain pipe, horizontal and vertical drain pipe riser, and floor drain to ensure no clogging and flooding for LVSB room and server room
- Clean air filter and replace it if damaged.

(ii) Half-yearly maintenance

- Check and tighten the screw for all cable terminals / control panel / junction box.
- Observe any abnormal noise, grease bearing and moving part.
- Check the pipe insulation and replace it if any deterioration is detected.
- Check and record fan and compressor running current.
- Check the refrigerant circuit and compressor current and voltage.
- Check and record the supply & return air temperature and room temperature.

(iii) Annual maintenance

- Perform a comprehensive system refrigerant leak test.
- Function-test all safety devices and operating controls.
- Inspect the condition of control wirings, motor, contactors, fuses, and main lines.
- Perform thorough chemical cleaning for all system blowers, drain pan and coils.
- Remove rust and paint the casing and framework.

5.5.43 Staircase pressurization system ("**SPS**")

(i) Monthly maintenance

- Check motor mountings, casing conditions, and ventilating louvers.
- Inspect fan blades, scrolls, and casings; clean as necessary.
- Check belt drive tension and pulley alignment; adjust or replace components as required.
- Check access panels for air leaks and ensure seals are intact.
- Check the fixings and effectiveness of anti-vibration mountings.
- Measure and record motor running currents; check control switch operations.

- Remove corrosion, repair paintwork, and lubricate bearings via external nipples/lubricators.

(ii) Quarterly maintenance

- Actuate and check all functions and sequences are operating correctly.
- Submit complete record log to HSITPL.

(iii) Annual maintenance

- Shaft bearing lubrication.
- Clean and test motor windings; check and secure motor terminals and connections.
- Check the condition of motor brushes and replace them if necessary.
- Check and tighten the screw for all cable terminals / control panel / junction box.
- Check motor starter, control device, wiring, supply voltage and motor running current (full speed).
- Perform insulation test on electric motor.
- Check the control circuit inside the local control panel for the fan including but not limited to control relays, timers, control fuses, control cables, overload relays and main contactors.
- Actuated and a full test according to the latest statutory requirement by registered fire service installation contractor and issue a Certificate of Fire Service Installations and Equipment (F.S. 251).
- Coordinate with nominated fire services contractor to have on site checking for AFA system interface of SPS for compliance with statutory annual fire services installation system.

5.5.44 Variable air volume ("**VAV**") / constant air volume ("**CAV**") System

(i) Monthly maintenance

- Check the central BMS or local thermostats for room temperature setpoint deviations and active error alarms.
- Inspect VAV / CAV box exterior casings and associated flexible duct connections for physical damage or air leakage.
- Check pressure gauges and velocity sensors (pitot tubes / cross-flow sensors) for physical blockage or dust accumulation.
- Monitor the operation of terminal reheat coils (electric or hot water), checking for leaking valves or proper contactor staging.

- Verify that the minimum and maximum airflow limits match design specifications during standard operation.

(ii) Half-yearly maintenance

- Test damper actuator movement by forcing the VAV / CAV boxes fully open and fully closed via the BMS to ensure smooth travel without binding.
- Inspect and clean terminal reheat coils (if installed); brush away dust from fins to maintain heat transfer efficiency.
- Check and tighten all internal electrical terminals and control wiring connections within the box controller enclosure.

(iii) Annual maintenance

- Calibrate the airflow pressure transducers and room temperature sensors to ensure accurate volumetric flow (L/s or CFM) readings.
- Examine internal acoustic insulation/lining for erosion, mold, or sagging, and treat or repair as necessary.
- Check and test the functional operation of modulating control valves, electronic actuators, and electrical safety high-limit cut-outs for reheat strings.
- Inspect the upstream static pressure controllers in the main ductwork to ensure the system safely handles total air volume fluctuations.
- Re-verify full sequence of operation (occupied, unoccupied, and morning warm-up/cool-down modes).

5.5.45 ACC

(i) Weekly maintenance

- Walk around the ACC to check for unusual vibrations, rattling, or abnormal noises coming from the compressors or condenser fans.
- Check compressor oil sight glasses to ensure proper oil levels during stable operation.
- Conduct a visual inspection of the ACC chassis, piping joints, and valves for any evidence of oil stains (which indicate a refrigerant leak) or chilled water leaks.
- Check the air intake areas around the condenser coils and remove any immediate debris (such as plastic bags, leaves, or paper) that could restrict critical airflow.
- Check the microprocessor control panel for any active warnings, faults, or tripped safety alerts.
- Take a log of the entering and leaving chilled water temperatures to confirm the chiller is hitting its current setpoints.

(ii) Monthly maintenance

- Monitor and log comprehensive unit operation, including compressor run hours, staging sequences, and stable oil levels.
- Check and record suction/discharge pressures, evaporating/condensing temperatures, approach temperatures, and pressure drops across the evaporator.
- Visually inspect air-cooled condenser coils for deeper accumulation of dirt, dust, or localized fin damage.
- Verify the proper operation of chilled water flow switches, pressure differential switches, and isolation valves.
- Visually check the interior of the main control panel for moisture or loose wires. Ensure all panel doors and gaskets are tightly sealed against the weather.
- Highlighting any micro-trends in performance degradation or shifting baseline metrics is found.

(iii) Annual maintenance

- Thoroughly clean and power-wash the air-cooled condenser coils using an approved, non-corrosive chemical coil cleaner (washing from the inside out). Straighten any bent or flattened aluminum fins using a fin comb to restore optimal airflow.
- Isolate power and check compressor motor winding insulation resistance (Megger test).
- Inspect and tighten all electrical terminals, contactors, and power cable connections.
- Check for signs of overheating, arcing, or pitting on contactors.
- Calibrate temperature sensors, pressure transducers, and safety cut-outs (e.g., high/low-pressure limits).
- Take an oil sample from each compressor circuit and submit it for laboratory spectrographic analysis including moisture, acid content, and wear metals checking.
- Check crankcase oil heater functionality.
- Replace oil filters and refrigerant liquid-line filter driers if parameters or runtime dictate.
- Inspect condenser fan blades for cracks, stress fractures, or imbalances. Check fan motors, test bearings, and lubricate motor/shaft bearings where grease points are provided.
- Conduct a comprehensive electronic leak test on all joints, valves, coils, and compressor seals to ensure zero refrigerant loss and environmental compliance.

- Submit oil analysis results and evaluate the need for a winter shutdown protocol such as draining water from the evaporator to prevent freezing or verifying anti-freeze / glycol concentrations.

Tender Schedule 6: Proposed Solution for Tender

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"

This Tender Schedule contains Parts 1 to 5 and shall be duly completed by the Tenderer and included in the tender proposal. The Tenderer is required to present all the details of its proposed solution according to the guidelines specified under each Part.

Tenderers are reminded that no price information should be included in the Technical Proposal. Tenderers are expected to provide the following information in an A4-sized document. No font other than Calibri and no font size smaller than 12 will be accepted.

Part 1: Mandatory Assessment Criteria

The Tenderer acknowledges and agrees that participation in this Tender requires compliance with the mandatory assessment criteria outlined in this Part 1 ("**Mandatory Assessment Criteria**"). By responding with "Y", the Tenderer hereby confirms that it meets all the Mandatory Assessment Criteria. Failure to declare or submit supporting documents confirming compliance with any of the Mandatory Assessment Criteria may result in the **disqualification of the Tenderer**.

Item	Description	Declaration with supporting document(s) Yes (Y) / No (N)
1	**Record of Relevant High-Value Projects** The Tenderer must have successfully completed, as a main contractor, at least **one (1) project** involving the preventive and corrective maintenance of MVAC system including PAU / AHU, SPS, and ACC in a single property within **five (5)** years immediately preceding the Tender Closing Date, or if extended, the extended Tender Closing Date). • **Required evidence:** the Tenderer **must** attach copies of document(s) showing contract value and completion date.	

Part 2: Past Case Reference

Please briefly describe any past reference cases similar to the nature and scope of this project. For each case, please provide details such as the scope, contact person (optional) and contact telephone number (optional) for future reference, as much as possible.

Reference Client	Project Period	Relevant scope of services	Contact Person (optional)	Contact Telephone No.(optional)

Note: The job references submitted to satisfy the Mandatory Assessment Criteria shall, if also submitted in this Part 2, be considered.

Part 3: Qualification of Team Members

Please list the key team members and their roles in the proposed services. For each member, please provide any certified qualification and briefly describe how such qualification would contribute to the services implementation. Please note that it is the Tenderer's responsibility to replace team member with the same qualification in case of personnel movement during the service period.

Name	Job Title	Qualification	Role and Contribution in the Services

Part 4: Details of Management Plan

Please describe in detail your understanding of the services standard which are required for the maintenance service for MVAC systems. Merits will be given to the appropriateness of the solutions and the quality of the presentation for their justification. The following should be included in your proposal:

Item		Content
A	**Experience and job reference** (20%)	
1	A company profile related to MVAC systems maintenance services.	• A company profile related to MVAC systems maintenance services. • Number of years that the Tenderer is established for relevant business.
2	Relevant job references for previous experience in MVAC systems maintenance services. Each reference project must relate to a facility in Hong Kong with at least one MVAC system including PAU / AHU, SPS and ACC and must have been completed within **five (5)** years immediately preceding the Tender Closing Date, or if extended, the extended Tender Closing Date.	• Relevant experience and job reference • Key equipment of MVAC system • Contract period and contract sum • Nature of the organization • Site location
B	**Team qualification** (20%)	
1	Organizational chart and escalation structure with key team members and their roles in the Services.	• Provide organizational chart and escalation structure with key team members and their roles in the Services.
2	Certification / qualification of key team members.	• Provide certification / qualification of key team members.
C	**Service delivery capability** (30%)	
1	Risk and critical equipment assessment.	• Identify critical equipment, potential operational risks, and maintenance challenges, and propose a maintenance strategy to ensure system reliability and service continuity based on the information provided.
2	Emergency call response capability.	• Demonstrate its capability to provide timely and effective emergency response services for unplanned MVAC system failures and urgent maintenance incidents to minimize disruption to building operations.
D	**Maintenance plan** (30%)	
1	Proposed maintenance plan.	• Provide a proposed maintenance plan with emergency call service.
2	Sample of maintenance / repair report.	• Provide sample of maintenance and repair report.

Part 5: PowerPoint deck

To facilitate a comprehensive assessment of proposals, we will invite the qualified Tenderer to present their proposal to the Tender Assessment Panel. Please provide a PowerPoint deck for a **presentation that is not longer than fifteen (15) minutes** to highlight the key aspects of your proposal, which shall include the following:

- A company profile

- Relevant job references
- Risk and critical equipment assessment
- Emergency call response capability
- Maintenance plan

Appendix A: Letter of Declaration on Compliance with One Tender Requirement for Holding Companies, Subsidiaries or Related Parties
Appendix B: Marking Scheme for Technical Capability Assessment
Appendix C: Equipment Schedule

APPENDIX A – Letter of Declaration on Compliance with One Tender Requirement for Holding Companies, Subsidiaries or Related Parties

To: Hong Kong-Shenzhen Innovation and Technology Park Limited ("HSITPL")

Dear Sir / Madam,

"Two-Year Mechanical Ventilation & Air Conditioning Systems Maintenance Services for Hong Kong-Shenzhen Innovation and Technology Park (Ref. no. FD-03-06-02(270))"

Letter of Declaration on Compliance with One Tender Requirement for Holding Companies, Subsidiaries or Related Parties

1. *[I/We], the Tenderer, [(name of the tenderer) of (address of the tenderer)][2], refer to *[my/our] Tender for the Contract.

2. *[I/We] confirm that, before *[I/we] sign this letter, *[I/we] have read and fully understand this letter and the requirements set out in Part I of the Tender Documents Clause 4 k) ("**Clause 4 k)**") on the restriction to Tenderer to submit one Tender only for holding companies, subsidiaries or related parties.

3. *[I/We] represent and warrant that in relation to the restriction that no Tenderer is permitted to submit more than one Tender for the Contract as set out in Clause 4 k):

(i) This Tender is the only Tender submitted by *[me/us];

(ii) None of our holding company or subsidiary company has submitted a Tender for the Contract. The existence of a holding-subsidiary relationship shall be determined as set out in Clause 4 k); [this is only applicable where the tenderer is a company] and

(iii) None of our related parties, as more particularly defined in Clause 4 k), has submitted a Tender for the Contract.

4. *[I/We] shall indemnify and keep indemnified HSITPL against all losses, damages, costs or expenses arising out of or in relation to any breach of any of the representations and/or warranties above, including but not limited to damages for delay, costs and expenses of re-tendering and other costs incurred.

[2] Where the tenderer comprises two or more persons or companies acting in partnership, joint venture or otherwise, this part in square brackets should be expanded to include the respective names and addresses of such persons or as the case may be companies.

Signed for and on behalf of [name of the Tenderer] by [name and position of the signatory][3]:

_____

Name of Witness: _____

Signature of Witness: _____

Occupation: _____

* Delete as appropriate

[3] Where the Tenderer comprises two or more persons or companies acting in partnership, joint venture or otherwise, all such persons or, as the case may be, companies, must sign. The signatory for each of such persons or companies shall be a person authorized to sign contracts on behalf of that person or, as the case may be, company.

APPENDIX B – Marking Scheme for Technical Capability Assessment

Attribute	Marking			Max.
A. Experience and job reference (20%)				
1	A company profile related to MVAC systems maintenance services			10 points
	Marking:	Number of years that the Tenderer is established for relevant business	Points to be awarded	
		≥ 20 years	10 points	
		≥ 15 years	6 points	
		≥ 10 years	3 points	
		< 10 years	0 point	
2	Relevant job references for previous experience in MVAC systems maintenance services.			10 points
	Marking:	Each reference project must relate to a facility in Hong Kong with at least one MVAC system including PAU / AHU, SPS and ACC and must have been completed within five (5) years immediately preceding the Tender Closing Date, or if extended, the extended Tender Closing Date.	Points to be awarded	
		≥ 20 cases	10 points	
		≥ 10 cases	5 points	
		< 10 cases	0 point	
B. Team qualification (20%)				
1	Organizational chart and escalation structure with key team members and their roles in the Services			10 points
	Marking:	Provide the organizational chart and escalation structure for HSITPL	Points to be awarded	
		Both organizational chart and escalation structure for HSITPL submitted	10 points	
		Either organizational chart or escalation structure for HSITPL submitted	5 points	
2	Certification / qualification of key team members			10 points
	Marking:	Provide certification / qualification of key team members	Points to be awarded	
		Registered safety auditor (i.e., RSA) registered under the Factories and Industrial Undertakings (Safety Management) Regulation (Cap. 59AF)	3 points	
		Registered safety officer (i.e., RSO) under the Factories and Industrial Undertakings (Safety Officers and Safety Supervisors) Regulations (Cap. 59Z)	3 points	
		Registered electrical worker (i.e. REW) registered for Grade A electrical work or above under the Electricity Ordinance (Cap. 406) and the Electricity (Registration) Regulations (Cap. 406D).	4 points	

Attribute	Marking			Max.
C. Service delivery capability (30%)				
1	Risk and critical equipment assessment			15 points
	Marking:	Identify critical equipment, potential operational risks, and maintenance challenges, and propose a maintenance strategy to ensure system reliability and service continuity based on the information provided. (Maximum 5 points for each of the below items provided) • Identification and assessment of critical equipment, operational risks and maintenance challenges. • Evaluation of potential impact on system reliability, service continuity and building operations. • Recommendations for improving the proposed maintenance schedule and mitigating identified risks.		
2	Emergency call response capability			15 points
	Marking:	Demonstrate its capability to provide timely and effective emergency response services for unplanned MVAC system failures and urgent maintenance incidents to minimize disruption to building operations. (Maximum 5 points for each of the below items provided) • Emergency response arrangements, including resource mobilization, response commitment and escalation procedures. • Communication and stakeholder management during emergency incidents. • Practical approach to troubleshooting, fault rectification and service recovery to minimize operational disruption.		
D. Maintenance plan (30%)				
1	Proposed maintenance plan			15 points
	Marking:	Based on the clarity, feasibility, and comprehensiveness of the following proposed maintenance schedules. (Maximum 3 points for each of the below items provided) 1. Weekly schedule; 2. Monthly schedule; 3. Quarterly schedule; 4. Half-yearly schedule; and 5. Annual schedule.		
2	Sample of maintenance / repair report			15 points
	Marking:	Provide template of maintenance / repair report	Points to be awarded	
		Report template with example of filled information	15 points	
		Report template without example of filled information	10 points	
		Report content summary with title only	5 points	

APPENDIX C – Equipment Schedule

Building 8 & Building 9, PAU & AHU Schedule

Items	Floor	Equipment No.	Location	Area served	Type	System	Qty.	Designed air flow rate (L/s)	Actual air flow rate (L/s)	Other					Local motor control panel	Remark
										Filter	Air purification equipment		Essential power	V/AC tripped off method		
1	1/F TO 6/F	PAU-B8-101 to 601	AHU Room	Laboratory 02, 03, 05 & 06	D-PAU	VAV (100% F.A.)	6	5700	4020	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-101 to 601	-
2	1/F TO 6/F	PAU-B8-102 to 602	AHU Room	Laboratory 01 & 07	D-PAU	VAV (100% F.A.)	6	5700	3860	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-102 to 602	-
3	7/F	PAU-B8-701	AHU Room	Laboratory 02, 03, 05	D-PAU	VAV (100% F.A.)	1	5700	3860	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-701	-
4	7/F	PAU-B8-702	AHU Room	Laboratory 01 & 06	D-PAU	VAV (100% F.A.)	1	5700	3860	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-702	-
5	8/F	PAU-B8-801 & 802	AHU Room	Laboratory 01 & 02	D-PAU	VAV (100% F.A.)	2	5700	3860	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-801 & 802	-
6	GM/F	PAU-B8-G01	AHU Room	Laboratory G01	D-PAU	VAV (100% F.A.)	1	1750	1750	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-G01	-
7	GM/F	PAU-B8-G02	AHU Room	Laboratory G01	D-PAU	VAV (100% F.A.)	1	1750	1750	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B8-PAU-G02	-
8	G/F	PAU-B8-G03	FAN Room (for DCS-1A)	GF Corridor	PAU	CAV	1	1000	1000	Pre-filter + bag filter + carbon filter	UV sterilizer light	-	N	A	LMCP-B8-PAU-G03	-
9	G/F	AHU-B8-G01	AHU Room (for main lobby)	GF Main Lobby	AHU	CAV	1	3000	3000	Pre-filter + bag filter + carbon filter	UV sterilizer light	-	N	A	LMCP-B8-AHU-G01	-
10	1/F TO 8/F	PAU-B9-101 TO 801	AHU Room	Laboratory 01, 06 & 07	D-PAU	VAV (100% F.A.)	7	5700	4440	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B9-PAU-101 to 801	-

Items	Floor	Equipment No.	Location	Area served	Type	System	Qty.	Designed air flow rate (L/s)	Actual air flow rate (L/s)	Other					Local motor control panel	Remark
										Filter	Air purification equipment		Essential power	V/AC tripped off method		
11	1/F TO 8/F	PAU-B9-102 TO 802	AHU Room	Laboratory 01, 02 & 05	D-PAU	VAV (100% F.A.)	7	5700	3730	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B9-PAU-102 to 802	-
12	G/F	PAU-B9-G01	AHU Room	Laboratory G01 & G02	D-PAU	VAV (100% F.A.)	1	5700	5700	Pre-filter + bag filter	UV sterilizer light	Bio-oxygen generator	N	A	LMCP-B9-PAU-G01	-
13	G/F	AHU-B9-G01	Sewage Treatment Plant - B9	GF Main Lobby	AHU	CAV	1	3340	3340	Pre-filter + bag filter + carbon filter	UV sterilizer light	-	N	A	LMCP-B9-AHU-G01	-
14	B1/F	PAU-B-01	L/UL ZONE Fan Rm 1	B8 BMO, Service Lift Lobby, ACC.LAV, Protected Lobby, Shuttle Lift Lobby	PAU	CAV	1	1000	1000	Pre-filter + bag filter + carbon filter	UV sterilizer light	-	N	A	LMCP-B-PAU-B01	-

Building 8 & Building 9, Fan Schedule

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
1	B1/F	EAF-B-01	In-line centrifugal	B1 ACCESS FAN RM 1	BASEMENT CAR ACCESS	1	Systemair	MF625	7660	810	1300	11	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-E01	
2	B1/F	EAF-B-02	In-line centrifugal	FAN ROOM 2	BASEMENT CAR ACCESS	1	Systemair	MF625	7040	530	1150	7.5	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-E02	
3	B1M/F	EAF-B-03	In-line centrifugal	CAR PARK FAN RM1	BASEMENT CAR ACCESS	1	Systemair	MF625	7920	650	1300	11	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-E03	
4	B1M/F	EAF-B-04	In-line centrifugal	CHILLED WATER PUMP RM-BLDG 8	CHILLED WATER PUMP RM - BLDG.8	1	Systemair	GBRE 400	330	400	1410	0.6	220/1/50	DOL	-	-	LMCP-B-E04	-
5	B1M/F	EAF-B-05	In-line centrifugal	COOLING TOWER MAKE UP (FOR DCS)	COOLING TOWER MAKE UP (FOR DCS)	1	Systemair	CDRE 500	940	280	1450	1.5	220/1/50	DOL	-	-	LMCP-B-E05	-
6	B1M/F	EAF-B-06	In-line centrifugal	SPRINKLER AND F.S.. TANK & PUMP RM-BLDG 8	SPRINKLER AND F.S. TANK & PUMP ROOM - BLDG.8	1	Systemair	CDRE 500	1020	350	1450	1.5	220/1/50	DOL	-	-	LMCP-B-E06	-
7	B1M/F	EAF-B-07	In-line centrifugal	SPRINKLER AND F.S.. TANK & PUMP RM-BLDG 9	SPRINKLER AND F.S. TANK & PUMP ROOM - BLDG.9	1	Systemair	CDRE 500	1020	330	1450	1.5	220/1/50	DOL	-	-	LMCP-B-E07	-
8	B1M/F	EAF-B-08	In-line centrifugal	COOLING TOWER BLEED-OFF WATER PLANT ROOM	COOLING TOWER BLEED-OFF WATER PLANT ROOM	1	Systemair	QSR 300	390	210	1280	0.44	220/1/50	DOL	-	-	LMCP-B-E08	-
9	B1M/F	EAF-B-09	In-line centrifugal	TBE - BLDG.8	TBE - BLDG.8	1	Systemair	GBRE 350	530	310	1380	0.5	220/1/50	DOL	Required	-	LMCP-B-E09	-
10	B1M/F	EAF-B-10	In-line centrifugal	ARCS CENTRAL STATION	ARCS CENTRAL STATION	1	Systemair	CDRD 560	2000	530	1450	3	380/3/50	VFD/SOFT STARTER	Required	Required	LMCP-B-E10	C/w odor sensor & active carbon filter
11	B1/F	EAF-B-11	DIDW centrifugal	L/UL FAN ROOM 1	L/UL AREA	1	Systemair	MF700	10330	1000	1450	18.5	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-E11	
12	B1M/F	EAF-B-12	In-line centrifugal	ARCS GREEN POINT/DV RM	ARCS GREEN POINT / DV ROOM	1	Systemair	GBRE 350	220	350	1380	0.5	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B-E12	C/w odor sensor & active carbon filter
13	B1M/F	EAF-B-13	In-line centrifugal	ARCS DV RM - BLDG 8	ARCS DV ROOM - BLDG. 8	1	Systemair	QSR 255	90	310	1090	0.39	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B-E13	C/w odor sensor & active carbon filter

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
14	B1/F	EAF-B-14	In-line centrifugal	LIFT PIT -BLDG.8	LIFT PIT BLDG.8	1	Systemair	QSR 255	200	180	1090	0.39	220/1/50	DOL	-	-	LMCP-B-E14	-
15	B1M/F	EAF-B-15	In-line centrifugal	TBE - BLDG.9	TBE - BLDG.9	1	Systemair	GBRE 350	500	280	1380	0.5	220/1/50	DOL	Required	-	LMCP-B-E15	-
16	B1/F	EAF-B-16	In-line centrifugal	LIFT PIT -BLDG.9	LIFT PIT BLDG.9	1	Systemair	QSR 255	200	200	1090	0.39	220/1/50	DOL	-	-	LMCP-B-E16	-
17	B1/F	EAF-B-17	In-line centrifugal	SUMP WATER TANK & PUMP RM-BLDG 8 &9	SUMP WATER TANK & PUMP ROOM - BLDG 8 & 9	1	Systemair	CDRD 560	1420	620	1450	3	380/3/50	STAR/DELTA	-	-	LMCP-B-E17	-
18	B1M/F	EAF-B-18	In-line centrifugal	CHILLED WATER PUMP RM-BLDG 9	CHILLED WATER PUMP RM - BLDG.9	1	Systemair	GBRE 350	350	380	1380	0.5	220/1/50	DOL	-	-	LMCP-B-E18	-
19	B1M/F	EAF-B-19	DIDW centrifugal	CAR PARK FAN ROOM 3	CAR PARK B1M/F	1	Systemair	MF825	14500	1080	1250	30	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-E19	
20	B1M/F	EAF-B-20	DIDW centrifugal	CAR PARK FAN ROOM	CAR PARK B1	1	Systemair	MF825	14500	960	1200	30	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-E20	
21	B1M/F	EAF-B-21	In-line centrifugal	ARCS DV RM - BLDG 9	ARCS DV ROOM - BLDG. 9	1	Systemair	GBRE 350	230	390	1380	0.5	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B-E21	C/w odor sensor & active carbon filter
22	B1M/F	EAF-B-22	In-line centrifugal	BOH CORRIDOR (G.L. S12-13, E24-25)	BOH CORRIDOR (G.L. S12-13, E24-25)	1	Systemair	QSR 300	320	260	1280	0.44	220/1/50	DOL	-	-	LMCP-B-E22	-
23	B1M/F	EAF-B-23	In-line centrifugal	ARCS DV RM - BLDG 9	SERVICE LIFT LOBBY	1	Systemair	QSR 255	200	200	1090	0.39	220/1/50	DOL	-	-	LMCP-B-E23	-
24	B1/F	FAF-B-01	DIDW centrifugal	B1 ACCESS FAN RM 2	BASEMENT CAR ACCESS	1	Systemair	MF625	7660	610	1250	11	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-F01	
25	B1/F	FAF-B-02	DIDW centrifugal	FAN ROOM 2	BASEMENT CAR ACCESS	1	Systemair	MF625	7040	590	1200	11	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-F02	
26	B1/F	FAF-B-03	DIDW centrifugal	CAR PARK FAN RM 1	BASEMENT CAR ACCESS	1	Systemair	MF625	7920	550	1250	11	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-F03	

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
27	B1M/F	FAF-B-04	In-line centrifugal	CHILLED WATER PUMP RM-BLDG 8	CHILLED WATER PUMP RM - BLDG.8	1	Systemair	GBRE 400	330	410	1410	0.6	220/1/50	DOL	-	-	LMCP-B-F04	-
28	B1M/F	FAF-B-05	In-line centrifugal	COOLING TOWER MAKE UP (FOR DCS)	COOLING TOWER MAKE UP (FOR DCS)	1	Systemair	GBRE 400	940	200	1410	0.6	220/1/50	DOL	-	-	LMCP-B-F05	-
29	B1M/F	FAF-B-06	In-line centrifugal	SPRINKLER AND F.S. TANK &PUMP RM-BULG 8	SPRINKLER AND F.S. TANK & PUMP ROOM - BLDG.8	1	Systemair	CDRE 500	1020	250	1450	1.5	220/1/50	DOL	-	-	LMCP-B-F06	-
30	B1M/F	FAF-B-07	In-line centrifugal	SPRINKLER AND F.S. TANK & PUMP RM-BLDG 9	SPRINKLER AND F.S. TANK & PUMP ROOM - BLDG.9	1	Systemair	CDRE 500	1020	310	1450	1.5	220/1/50	DOL	-	-	LMCP-B-F07	-
31	B1M/F	FAF-B-08	In-line centrifugal	COOLING TOWER BLEED-OFF WATER PLANT ROOM	COOLING TOWER BLEED-OFF WATER PLANT ROOM	1	Systemair	QSR 300	390	230	1280	0.44	220/1/50	DOL	-	-	LMCP-B-F08	-
32	B1M/F	FAF-B-09	In-line centrifugal	TBE - BLDG.8	TBE - BLDG.8	1	Systemair	GBRE 350	530	250	1380	0.5	220/1/50	DOL	Required	-	LMCP-B-F09	-
33	B1/F	FAF-B-11	DIDW centrifugal	L/UL FAN ROOM 1	L/UL AREA	1	Systemair	MF700	10330	910	1300	18.5	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-F11	-
34	B1M/F	FAF-B-13	In-line centrifugal	TBE - BLDG.9	TBE - BLDG.9	1	Systemair	GBRE 350	500	270	1380	0.5	220/1/50	DOL	Required	-	LMCP-B-F13	-
35	B1/F	FAF-B-14	In-line centrifugal	SUMP WATER TANK & PUMP RM-BLDG 8 &9	SUMP WATER TANK & PUMP ROOM - BLDG 8 & 9	1	Systemair	CDRD 560	1420	610	1450	3	380/3/50	STAR/DELTA	-	-	LMCP-B-F14	-
36	B1M/F	FAF-B-15	In-line centrifugal	CHILLED WATER PUMP RM-BLDG 9	CHILLED WATER PUMP RM - BLDG.9	1	Systemair	GBRE 400	350	410	1410	0.6	220/1/50	DOL	-	-	LMCP-B-F15	-
37	B1M/F	FAF-B-16	DIDW centrifugal	SUMP WATER TANK & PUMP RM-BLDG 8 &9	CAR PARK B1M/F & B1/F	1	Systemair	MF900	13200	1100	950	22	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-F16	
38	B1M/F	FAF-B-17	DIDW centrifugal	CAR PARK FAN ROOM 2	CAR PARK B1M/F & B1/F	1	Systemair	MF900	13500	1020	950	22	380/3/50	VFD/SOFT STARTER	-	Required	LMCP-B-F17	
39	B1M/F	FAF-B-18	In-line centrifugal	ARCS DV RM - BLDG 9	ARCS DV ROOM - BLDG. 9	1	Systemair	GBRE 350	230	410	1380	0.5	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B-F18	C/w odor sensor & active carbon filter

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
40	G/F	EAF-B8-G01	In-line centrifugal	FAN RM (FOR DCS-1A)	TOLIETS & SHOWER RM	1	Systemair	CDRE 500	580	480	1450	1.5	220/1/50	DOL	Required	-	LMCP-B8-GE01	-
41	G/F	EAF-B8-G02	In-line centrifugal	STORE RM	STORE RM	1	Systemair	QSR 255	270	210	1090	0.39	220/1/50	DOL	-	-	LMCP-B8-GE02	-
42	G/F	EAF-B8-G03	In-line centrifugal	FS CONTROL RM - BLDG.8	FS CONTROL RM - BLDG.8	1	Systemair	CBF 160M	60	150	1430	0.08	220/1/50	DOL	-	-	LMCP-B8-GE03	-
43	M/F	EAF-B8-G04	In-line centrifugal	VACUUM PLANT	VACUUM PLANT	1	Systemair	GBRE 400	290	410	1410	0.6	220/1/50	DOL	-	-	LMCP-B8-GE04	-
44	G/F	EAF-B8-G05	In-line centrifugal	IRRIGATION PUMP RM	IRRIGATION PUMP RM	1	Systemair	GBRE 350	190	380	1380	0.5	220/1/50	DOL	-	-	LMCP-B8-GE05	-
45	G/F	EAF-B8-G06	In-line centrifugal	WATER METER RM - BLDG.8	WATER METER RM - BLDG.8	1	Systemair	QSR 300	190	330	1280	0.44	220/1/50	DOL	-	-	LMCP-B8-GE06	-
46	G/F	EAF-B8-G07	In-line centrifugal	SEWAGE TREATMENT PLANT RM - BLDG.8	SEWAGE TREATMENT PLANT RM - BLDG.8	1	Systemair	GBRE 400	580	360	1410	0.6	220/1/50	DOL	-	-	LMCP-B8-GE07	-
47	G/F	EAF-B8-G08	In-line centrifugal	LV SWITCH RM - BLDG.8	LV SWITCH RM - BLDG.8	1	Systemair	GBRE 400	450	430	1410	0.6	220/1/50	DOL	Required	-	LMCP-B8-GE08	-
48	G/F	EAF-B8-G09	In-line centrifugal	LV SWITCH RM - DCS	LV SWITCH RM - DCS	1	Systemair	QSR 300	300	240	1280	0.44	220/1/50	DOL	Required	-	LMCP-B8-GE09	-
49	G/F	EAF-B8-G10	In-line centrifugal	DEIONIZED WATER ROOM	DEIONIZED WATER ROOM	1	Systemair	GBRE 400	660	400	1410	0.6	220/1/50	DOL	-	-	LMCP-B8-GE10	-
50	G/F	EAF-B8-G11	In-line centrifugal	ARCS GREEN POINT	ARCS GREEN POINT	1	Systemair	GBRE 400	240	500	1410	0.6	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B8-GE11	C/w odor sensor & active carbon filter
51	G/F	EAF-B8-G12	In-line centrifugal	ARCS GREEN POINT	ACC.LAV	1	Systemair	GBRE 400	60	520	1410	0.6	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B8-GE12	C/w odor sensor & active carbon filter
52	G/F	EAF-B8-G13	DIDW centrifugal	FAN RM (FOR DCS-1A)	DCS PLANT RM	1	Systemair	MF450	4400	430	1700	5.5	380/3/50	VFD	Required	-	LMCP-B8-GE13	-

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
53	G/F	FAF-B8-G01	In-line centrifugal	VACUUM PLANT	VACUUM PLANT	1	Systemair	QSR 300	290	270	1280	0.44	220/1/50	DOL	-	-	LMCP-B8-GF01	-
54	G/F	FAF-B8-G02	In-line centrifugal	IRRIGATION PUMP RM	IRRIGATION PUMP RM	1	Systemair	GBRE 350	190	390	1380	0.5	220/1/50	DOL	-	-	LMCP-B8-GF02	-
55	G/F	FAF-B8-G03	In-line centrifugal	SEWAGE TREATMENT PLANT RM - BLDG.8	SEWAGE TREATMENT PLANT RM - BLDG.8	1	Systemair	CDRE 500	580	460	1450	1.5	220/1/50	DOL	-	-	LMCP-B8-GF03	-
56	G/F	FAF-B8-G06	DIDW centrifugal	FAN RM (FOR DCS-1A)	DCS PLANT RM	1	Systemair	MF450	4400	420	1750	5.5	380/3/50	VFD/SOFT STARTER	Required	-	LMCP-B8-GF06	-
57	R/F	FAF-B8-R01	Propeller	B8 BOILER RM	B8 BOILER RM	1	Systemair	HPA63016-1A	1230	-	900	2.36	220/1/50	DOL	-	-	LMCP-B8-RF01	-
58	R/F	FAF-B8-R02	Propeller	B8 BOILER RM	B8 BOILER RM	1	Systemair	HPA63016-1A	1230	-	900	2.36	220/1/50	DOL	-	-	LMCP-B8-RF02	-
59	1/F TO 8/F	EAF-B8-X01	In-line centrifugal	FEMALE LAV.	FEMALE LAV, CLEANERS RM & ACC. LAV	7	Systemair	GBRE 350	280	380	1380	0.5	220/1/50	DOL	Required	-	LMCP-B8-XE01	-
60	1/F TO 8/F	EAF-B8-X02	In-line centrifugal	MALE LAV.	MALE LAV & SHOWER RM	7	Systemair	GBRE 350	270	390	1380	0.5	220/1/50	DOL	Required	-	LMCP-B8-XE02	-
61	R/F	EAF-B8-R01	In-line centrifugal	WATER TANK AND PUMP RM	WATER TANK AND PUMP RM	1	Systemair	GBRE 400	600	400	1410	0.6	220/1/50	DOL	-	-	LMCP-B8-RE01	-
62	R/F	EAF-B8-R02	In-line centrifugal	AC MAKEUP WATER PUMP AND TANK RM	AC MAKEUP WATER PUMP AND TANK RM	1	Systemair	CDRE 500	790	390	1450	1.5	220/1/50	DOL	-	-	LMCP-B8-RE02	-
63	R/F	EAF-B8-R03	In-line centrifugal	COMPRESSED AIR PLANT RM	COMPRESSED AIR PLANT RM	1	Systemair	GBRE 350	410	340	1380	0.5	220/1/50	DOL	-	-	LMCP-B8-RE03	-
64	R/F	EAF-B8-R04	In-line centrifugal	NFSI GENERATOR RM	NFSI GENERATOR	1	Systemair	GBRE 400	650	370	1410	0.6	220/1/50	DOL	-	-	LMCP-B8-RE04	-
65	R/F	EAF-B8-R05	In-line centrifugal	FSI GENERATOR RM	FSI GENERATOR	1	Systemair	GBRE 350	340	330	1380	0.5	220/1/50	DOL	-	-	LMCP-B8-RE05	-

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
66	R/F	EAF-B8-R06	In-line centrifugal	BOILER RM	BOILER RM	1	Systemair	GBRE 350	650	170	1380	0.5	220/1/50	DOL	-	-	LMCP-B8-RE06	-
67	R/F	EAF-B8-R07	In-line centrifugal	HOT WATER PUMP RM	HOT WATER PUMP RM	1	Systemair	QSR 250	200	150	1010	0.345	220/1/50	DOL	-	-	LMCP-B8-RE07	-
68	R/F	EAF-B8-R08	In-line centrifugal	HOPPER EXHAUST FAN RM	1/F TO 8/F ARCS HOPPER RM	1	Systemair	GBRE 350	280	360	1380	0.5	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B8-RE08	C/w odor sensor & active carbon filter
69	R/F	EAF-B8-R09	In-line centrifugal	HOT WATER PUMP RM	LIFT L8-5	1	Systemair	CBF 160M	30	170	1430	0.08	220/1/50	DOL	-	-	LMCP-B8-RE09	-
70	R/F	EAF-B8-R10	In-line centrifugal	CARGO LIFT LOBBY	LIFT L8-6	1	Systemair	CBF 160M	30	170	1430	0.08	220/1/50	DOL	-	-	LMCP-B8-RE10	-
71	R/F	EAF-B8-R11	In-line centrifugal	HOT WATER PUMP RM	LIFT L8-1 & L8-2	1	Systemair	QSR 225	90	180	1080	0.23	220/1/50	DOL	-	-	LMCP-B8-RE11	-
72	R/F	EAF-B8-R12	In-line centrifugal	HOT WATER PUMP RM	LIFT L8-3 & L8-4	1	Systemair	QSR 225	90	180	1080	0.23	220/1/50	DOL	-	-	LMCP-B8-RE12	-
73	R/F	EAF-B8-R13	In-line centrifugal	B8 BOILER ROOM	B8 BOILER	1	Systemair	AXC710(B)	1300	430	1450	1.5	380/3/50	DOL	-	-	LMCP-B8-RE13	
74	R/F	EAF-B8-R14	In-line centrifugal	B8 BOILER ROOM	B8 BOILER	1	Systemair	AXC710(B)	1300	430	1450	1.5	380/3/50	DOL	-	-	LMCP-B8-RE14	
75	R/F	EAF-B8-R15	In-line centrifugal	B8 BOILER ROOM	B8 BOILER	1	Systemair	AXC710(B)	1300	430	1450	1.5	380/3/50	DOL	-	-	LMCP-B8-RE15	
76	R/F	EEAF-B8-R01	DIDW centrifugal	AC MAKEUP WATER PUMP AND TANK	1/F TO 8/F CORRIDOR FOR EMERGENCY AIR EXHAUS	1	Systemair	CDRE 500	600	440	1450	1.5	220/1/50	DOL	Required	-	LMCP-B8-RE09	-
77	G/F	EAF-B9-G01	In-line centrifugal	FEMALE LAV.	FEMALE LAV.	1	Systemair	GBRE 400	250	420	1410	0.6	220/1/50	DOL	Required	-	LMCP-B9-GE01	-
78	G/F	EAF-B9-G02	In-line centrifugal	MALE LAV.	MALE LAV, SHOWER RM, ACC LAV. & CLEANER RM	1	Systemair	GBRE 400	360	400	1410	0.6	220/1/50	DOL	Required	-	LMCP-B9-GE02	-

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
79	G/F	EAF-B9-G03	In-line centrifugal	MALE LAV.	REFUSE RM	1	Systemair	QSR 300	130	320	1280	0.44	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B9-GE03	C/w odor sensor & active carbon filter
80	G/F	EAF-B9-G04	In-line centrifugal	SEWAGE TREATMENT PLANT RM - BLDG.9	SEWAGE TREATMENT PLANT RM - BLDG.9	1	Systemair	GBRE 400	490	460	1410	0.6	220/1/50	DOL	-	-	LMCP-B9-GE04	-
81	G/F	EAF-B9-G05	In-line centrifugal	IRRIGATION PUMP RM - BLDG.9	IRRIGATION PUMP RM	1	Systemair	GBRE 350	160	420	1380	0.5	220/1/50	DOL	-	-	LMCP-B9-GE05	-
82	G/F	EAF-B9-G06	In-line centrifugal	LV SWITCH RM - BLDG.9	LV SWITCH RM - BLDG.9	1	Systemair	GBRE 400	480	420	1410	0.6	220/1/50	DOL	Required	-	LMCP-B9-GE06	-
83	G/F	EAF-B9-G07	In-line centrifugal	VACUUM PLANT - BLDG.9	VACUUM PLANT - BLDG.9	1	Systemair	GBRE 350	210	360	1380	0.5	220/1/50	DOL	-	-	LMCP-B9-GE07	-
84	G/F	EAF-B9-G08	In-line centrifugal	FS CONTROL RM - BLDG.9	FS CONTROL - BLDG.9	1	Systemair	QSR 225	120	150	1080	0.23	220/1/50	DOL	-	-	LMCP-B9-GE08	-
85	G/F	EAF-B9-G09	In-line centrifugal	STORE RM / REFUSE RM	STORE RM / REFUSE RM	1	Systemair	QSR 255	300	150	1090	0.39	220/1/50	DOL	-	-	LMCP-B9-GE09	-
86	G/F	EAF-B9-G10	In-line centrifugal	DEIONIZED WATER ROOM	DEIONIZED WATER ROOM	1	Systemair	GBRE 400	560	380	1410	0.6	220/1/50	DOL	-	-	LMCP-B9-GE10	-
87	G/F	EAF-B9-G11	In-line centrifugal	SEWAGE TREATMENT PLANT RM - BLDG.9	LIFT L10	1	Systemair	CBF 160M	30	180	1430	0.08	220/1/50	DOL	-	-	LMCP-B9-GE11	
88	G/F	FAF-B9-G01	In-line centrifugal	SEWAGE TREATMENT PLANT RM - BLDG.9	SEWAGE TREATMENT PLANT RM - BLDG.9	1	Systemair	CDRE 500	490	500	1450	1.5	220/1/50	DOL	-	-	LMCP-B9-GF01	-
89	G/F	FAF-B9-G02	In-line centrifugal	IRRIGATION PUMP RM - BLDG.9	IRRIGATION PUMP RM	1	Systemair	QSR 250	160	200	1010	0.345	220/1/50	DOL	-	-	LMCP-B9-GF02	-
90	G/F	FAF-B9-G03	In-line centrifugal	LV SWITCH RM - BLDG.9	LV SWITCH RM - BLDG.9	1	Systemair	GBRE 400	480	430	1410	0.6	220/1/50	DOL	Required	-	LMCP-B9-GF03	-
91	G/F	FAF-B9-G04	In-line centrifugal	STORE RM / REFUSE RM	STORE RM / REFUSE RM	1	Systemair	GBRE 350	300	320	1380	0.5	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B9-GF04	C/w odor sensor & active carbon filter

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
92	G/F	FAF-B9-G05	In-line centrifugal	VACUUM PLANT	VACUUM PLANT	1	Systemair	GBRE 400	210	480	1410	0.6	220/1/50	DOL	-	-	LMCP-B9-GF05	-
93	1/F TO 8/F	EAF-B9-X01	In-line centrifugal	FEMALE LAV.	FEMALE LAV, SHOWER RM & ACC. LAV	7	Systemair	GBRE 400	300	420	1410	0.6	220/1/50	DOL	Required	-	LMCP-B9-XE01	-
94	1/F TO 8/F	EAF-B9-X02	In-line centrifugal	MALE LAV.	MALE LAV & CLEANERS RM	7	Systemair	GBRE 350	270	370	1380	0.5	220/1/50	DOL	Required	-	LMCP-B9-XE02	-
95	R/F	EAF-B9-R01	In-line centrifugal	WATER TANK AND PUMP RM	WATER TANK AND PUMP RM	1	Systemair	CDRE 500	870	350	1450	1.5	220/1/50	DOL	-	-	LMCP-B9-RE01	-
96	R/F	EAF-B9-R02	In-line centrifugal	AC MAKEUP WATER PUMP AND TANK RM	AC MAKEUP WATER PUMP AND TANK RM	1	Systemair	GBRE 400	610	420	1410	0.6	220/1/50	DOL	-	-	LMCP-B9-RE02	-
97	R/F	EAF-B9-R03	In-line centrifugal	COMPRESSED AIR PLANT RM	COMPRESSED AIR PLANT RM	1	Systemair	GBRE 400	470	410	1410	0.6	220/1/50	DOL	-	-	LMCP-B9-RE03	-
98	R/F	EAF-B9-R04	In-line centrifugal	NFSI GENERATOR RM	NFSI GENERATOR	1	Systemair	GBRE 400	620	370	1410	0.6	220/1/50	DOL	-	-	LMCP-B9-RE04	-
99	R/F	EAF-B9-R05	In-line centrifugal	FSI GENERATOR RM	FSI GENERATOR	1	Systemair	GBRE 350	390	350	1380	0.5	220/1/50	DOL	-	-	LMCP-B9-RE05	-
100	R/F	EAF-B9-R06	In-line centrifugal	BOILER RM	BOILER RM	1	Systemair	GBRE 350	650	170	1380	0.5	220/1/50	DOL	-	-	LMCP-B9-RE06	-
101	R/F	EAF-B9-R07	In-line centrifugal	HOT WATER PUMP RM	HOT WATER PUMP RM	1	Systemair	QSR 250	200	150	1010	0.345	220/1/50	DOL	-	-	LMCP-B9-RE07	-
102	R/F	EAF-B9-R08	In-line centrifugal	WATER TANK AND PUMP RM	1/F TO 8/F ARCS HOPPER RM	1	Systemair	GBRE 350	280	390	1380	0.5	220/1/50	VFD/SOFT STARTER	Required	Required	LMCP-B9-RE08	C/w odor sensor & active carbon filter
103	R/F	EAF-B9-R09	In-line centrifugal	EL RM	LIFT L9-5	1	Systemair	CBF160M	30	170	1430	0.08	220/1/50	DOL	-	-	LMCP-B9-RE09	-
104	R/F	EAF-B9-R10	In-line centrifugal	NFSI GENERATOR RM	LIFT L9-6	1	Systemair	CBF160M	30	170	1430	0.08	220/1/50	DOL	-	-	LMCP-B9-RE10	-

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
105	R/F	EAF-B9-R11	In-line centrifugal	BOILER RM	LIFT L9-7	1	Systemair	CBF 160M	30	160	1430	0.08	220/1/50	DOL	-	-	LMCP-B9-RE11	-
106	R/F	EAF-B9-R12	In-line centrifugal	EL RM	LIFT L9-1 & L9-2	1	Systemair	QSR 225	90	180	1080	0.23	220/1/50	DOL	-	-	LMCP-B9-RE12	-
107	R/F	EAF-B9-R13	In-line centrifugal	EL RM	LIFT L9-3 & L9-4	1	Systemair	QSR 225	90	180	1080	0.23	220/1/50	DOL	-	-	LMCP-B9-RE13	-
108	R/F	EAF-B9-R14	In-line centrifugal	B9 BOILER ROOM	B9 BOILER	1	Systemair	AXC800(B)	1300	500	1450	1.5	380/3/50	DOL	-	-	LMCP-B9-RE14	-
109	R/F	EAF-B9-R15	In-line centrifugal	B9 BOILER ROOM	B9 BOILER	1	Systemair	AXC800(B)	1300	500	1450	1.5	380/3/50	DOL	-	-	LMCP-B9-RE15	-
110	R/F	EAF-B9-R16	In-line centrifugal	B9 BOILER ROOM	B9 BOILER	1	Systemair	AXC800(B)	1300	500	1450	1.5	380/3/50	DOL	-	-	LMCP-B9-RE16	-
111	R/F	EEAF-B9-R01	DIDW centrifugal	AC MAKEUP WATER PUMP AND TANK RM	1/F TO 7/F CORRIDOR FOR EMERGENCY AIR EXHAUST	1	Systemair	GBRE 400	600	390	1410	0.6	220/1/50	VFD/DOL	Required	Required	LMCP-B9-RE09	-
112	R/F	FAF-B9-R01	Propeller	B9 BOILER RM	B9 BOILER RM	1	Systemair	HPA63016-1A	1230	-	900	2.36	220/1/50	DOL	-	-	LMCP-B9-RF01	-
113	R/F	FAF-B9-R02	Propeller	B9 BOILER RM	B9 BOILER RM	1	Systemair	HPA63016-1A	1230	-	900	2.36	220/1/50	DOL	-	-	LMCP-B9-RF02	-
114	R/F	LPF-B8-R01	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - FIREMANS LIFT LOBBY	ST-8S FIREMAN LIFT ROOM	1	Systemair	AXC900-10/19-4-P	7890	530	1440	11	380/3/50	Star/Delta	Required	-	LMCP-LPF-B8-R01	-
115	R/F	LPF-B8-R02	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - FIREMANS LIFT LOBBY	ST-8S FIREMAN LIFT ROOM	1	Systemair	AXC900-10/19-4-P	7890	530	1440	11	380/3/50	Star/Delta	Required	-	LMCP-LPF-B8-R01	-
116	R/F	SRF-B8-R01	Axial	R/F AIR RELEASE FAN ROOM (SPS)	ACCOMMODATION	1	Systemair	AXC 1250 (B)	8840	840	1440	15	380/3/50	Star/Delta	Required	-	LMCP-SRF-B8-R01	-
117	R/F	SRF-B8-R02	Axial	R/F AIR RELEASE FAN ROOM (SPS)	ACCOMMODATION	1	Systemair	AXC 1250 (B)	8840	840	1440	15	380/3/50	Star/Delta	Required	-	LMCP-SRF-B8-R01	-
118	R/F	SPF-B8-R01	Axial	R/F PRESSURIZATION	ST-8S	1	Systemair	AXC1120-12/27-4-PV	19300	1130	1440	45	380/3/50	Star/Delta	Required	-	LMCP-SPF-B8-R01	-

Items	Floor	Fan. No.	Type	Location	Area served	Qty.	Manufacture	Model no.	Air flow rate (L/s)	Selected static pressure (Pa)	Max. Fan speed (rpm)	Motor (kW)	Volt/ph/Hz	Starter	On/off damper	VFD	Local motor control panel	Remark
				FAN ROOM (SPS) - STAIRCASE ST-8S														
119	R/F	SPF-B8-R02	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - STAIRCASE ST-8S	ST-8S	1	Systemair	AXC1120-12/27-4-PV	19300	1130	1440	45	380/3/50	Star/Delta	Required	-	LMCP-SPF-B8-R01	-
120	R/F	LPF-B9-R01	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - FIREMANS LIFT LOBBY	ST-9N FIREMAN LIFT ROOM	1	Systemair	AXC1000-10/10-4-P	7890	530	1440	11	380/3/50	Star/Delta	Required	-	LMCP-LPF-B8-R01	-
121	R/F	LPF-B9-R02	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - FIREMANS LIFT LOBBY	ST-9N FIREMAN LIFT ROOM	1	Systemair	AXC1000-10/10-4-P	7890	530	1440	11	380/3/50	Star/Delta	Required	-	LMCP-LPF-B8-R01	-
122	R/F	SRF-B9-R01	Axial	R/F AIR RELEASE FAN ROOM (SPS)	ACCOMMODATION	1	Systemair	AXC1120-12/20-4-PV	8840	840	1440	15	380/3/50	Star/Delta	Required	-	LMCP-SRF-B8-R01	-
123	R/F	SRF-B9-R02	Axial	R/F AIR RELEASE FAN ROOM (SPS)	ACCOMMODATION	1	Systemair	AXC1120-12/20-4-PV	8840	840	1440	15	380/3/50	Star/Delta	Required	-	LMCP-SRF-B8-R01	-
124	R/F	SPF-B9-R01	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - STAIRCASE ST-9N	ST-9N	1	Systemair	AXC 1250 (B)	19300	1130	1440	45	380/3/50	Star/Delta	Required	-	LMCP-SPF-B8-R01	-
125	R/F	SPF-B9-R02	Axial	R/F PRESSURIZATION FAN ROOM (SPS) - STAIRCASE ST-9N	ST-9N	1	Systemair	AXC 1250 (B)	19300	1130	1440	45	380/3/50	Star/Delta	Required	-	LMCP-SPF-B8-R01	-

Building 8 & Building 9, FCU Schedule

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
1	FCU-B-B01	B/F	DCS MAIN PLANT -1A	DCS MAIN PLANT -1A	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
2	FCU-B-B02	B/F	DCS MAIN PLANT -1A	DCS MAIN PLANT -1A	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
3	FCU-B-B03	B/F	DCS MAIN PLANT -1A	DCS MAIN PLANT -1A	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
4	FCU-B-B04	B/F	DCS MAIN PLANT -1A	DCS MAIN PLANT -1A	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
5	FCU-B-B05	B/F	DCS MAIN PLANT -1A	DCS MAIN PLANT -1A	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
6	FCU-B-B06	B/F	DCS SUBSTATION B8	DCS SUBSTATION B8	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
7	FCU-B-B07	B/F	ARCS CONTROL RM	ARCS CONTROL RM	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
8	FCU-B-B08	B/F	MCC RM	MCC RM	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
9	FCU-B-B09	B/F	B8 BMO RM	B8 BMO RM	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
10	FCU-B-B10	B/F	LIFT LOBBY	LIFT LOBBY	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
11	FCU-B-B11	B/F	LIFT LOBBY	LIFT LOBBY	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
12	FCU-B-B12	B/F	LIFT LOBBY	LIFT LOBBY	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
13	FCU-B-B13	BM/F	COMMON LOBBY	COMMON LOBBY	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
14	FCU-B-B14	B/F	DCS SUBSTATION B9	DCS SUBSTATION B9	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
15	FCU-B-B15	BM/F	LIFT LOBBY	LIFT LOBBY	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
16	FCU-B-B16	BM/F	SERVICE LIFT LOBBY	NET WORK EQUIPMEN RM	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
17	FCU-B-B17	B/F	LOBBY-BLDG 8	ELV RM 8.1	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
18	FCU-B-B18	B/F	LOBBY-BLDG 8	LOBBY-BLDG 8	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
19	FCU-B-B19	B/F	FIRE MAN LOBBY	FIRE MAN LOBBY	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
20	FCU-B-B20	B/F	B9 BMO RM	B9 BMO RM	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
21	FCU-B-B21	B/F	SUMP WATER TANK & PUMP RM - BLDG 8 & 9	ELV RM 9.1	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
22	FCU-B8-G01	B8 G/F	PROTECTED LOBBY	L.V SWITHCH RM FOR DCS-1A	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
23	FCU-B8-G02	B8 G/F	PROTECTED LOBBY	L.V SWITHCH RM	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
24	FCU-B8-G03	B8 G/F	PROTECTED LOBBY	ELV RM 8.3	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96		
25	FCU-B8-G04	B8 G/F	PROTECTED LOBBY	ELV RM 8.4	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
26	FCU-B8-G05	B8 G/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
27	FCU-B8-G06	B8 G/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
28	FCU-B8-G07	B8 G/F	GREEN POINT	GREEN POINT	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
29	FCU-B8-G08	B8 G/F	GREEN POINT	GREEN POINT	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
30	FCU-B8-G09	B8 G/F	CORRIDOR	ELV RM 8.1	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
31	FCU-B8-G10	B8 G/F	CORRIDOR	ELV RM 8.2	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
32	FCU-B8-101	B8 1/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
33	FCU-B8-102	B8 1/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
34	FCU-B8-103	B8 1/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
35	FCU-B8-104	B8 1/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
36	FCU-B8-201	B8 2/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
37	FCU-B8-202	B8 2/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
38	FCU-B8-203	B8 2/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
39	FCU-B8-204	B8 2/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
40	FCU-B8-301	B8 3/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
41	FCU-B8-302	B8 3/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
42	FCU-B8-303	B8 3/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
43	FCU-B8-304	B8 3/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
44	FCU-B8-501	B8 5/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
45	FCU-B8-502	B8 5/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
46	FCU-B8-503	B8 5/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
47	FCU-B8-504	B8 5/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
48	FCU-B8-601	B8 6/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
49	FCU-B8-602	B8 6/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
50	FCU-B8-603	B8 6/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
51	FCU-B8-604	B8 6/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
52	FCU-B8-701	B8 7/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
53	FCU-B8-702	B8 7/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
54	FCU-B8-703	B8 7/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
55	FCU-B8-704	B8 7/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
56	FCU-B8-801	B8 8/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
57	FCU-B8-802	B8 8/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
58	FCU-B8-803	B8 8/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
59	FCU-B8-804	B8 8/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
60	FCU-B9-G01	B9 G/F	SHUTTLE LIFT LOBBY	SHUTTLE LIFT LOBBY	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	6.31	4.97	-
61	FCU-B9-G02	B9 G/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
62	FCU-B9-G03	B9 G/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
63	FCU-B9-G04	B9 G/F	COMMUNAL AREA	TEL EQUIPMENT RM 9.1	FCU-06	YGFC07CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	3.96	2.96	-
64	FCU-B9-G05	B9 G/F	COMMUNAL AREA	ELV RM 9.1	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	6.31	4.97	-
65	FCU-B9-G06	B9 G/F	COMMUNAL AREA	LV SWITCH RM	FCU-10	YGFC12CC3U-	1	1390	50	0.222	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.19	24	17.8	3.96	2.96	-
66	FCU-B9-G07	B9 G/F	COMMUNAL AREA	TEL EQUIPMENT RM 9.2	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	6.31	4.97	-
67	FCU-B9-101	B9 1/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
68	FCU-B9-102	B9 1/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
69	FCU-B9-103	B9 1/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
70	FCU-B9-104	B9 1/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
71	FCU-B9-201	B9 2/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
72	FCU-B9-202	B9 2/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
73	FCU-B9-203	B9 2/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
74	FCU-B9-204	B9 2/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
75	FCU-B9-301	B9 3/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
76	FCU-B9-302	B9 3/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
77	FCU-B9-303	B9 3/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
78	FCU-B9-304	B9 3/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
79	FCU-B9-501	B9 5/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
80	FCU-B9-502	B9 5/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
81	FCU-B9-503	B9 5/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
82	FCU-B9-504	B9 5/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
83	FCU-B9-601	B9 6/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-

Items	Designation	Floor	Location	Area served	Equipment no.	Model no.	Qty.	Fan and motor data					Filter type	Chiller water temp in / out (℃)	Max chilled water flow (L/s)	On coil temp.		Capacity		Remark
								Off coil air volume (m3/h)	External static pressure (Pa)	Motor (kW)	Speed controller	Power supply (V/ph/Hz)				℃ DB	℃ WB	TOTAL (kW)	SENSIBLE (kW)	
84	FCU-B9-602	B9 6/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
85	FCU-B9-603	B9 6/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
86	FCU-B9-604	B9 6/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
87	FCU-B9-701	B9 7/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
88	FCU-B9-702	B9 7/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
89	FCU-B9-703	B9 7/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
90	FCU-B9-704	B9 7/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
91	FCU-B9-801	B9 8/F	FEMALE LAV.	FEMALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
92	FCU-B9-802	B9 8/F	MALE LAV.	MALE LAV.	FCU-06	YGFC07CC3U-	1	762	50	0.12	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.12	24	17.8	3.96	2.96	-
93	FCU-B9-803	B9 8/F	LIFT LOBBY	LIFT LOBBY	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-
94	FCU-B9-804	B9 8/F	COMMON AREA	COMMON AREA	FCU-08	YGFC10CC3U-	1	1127	50	0.174	3 Speed + on/off	220/1/50	Washable Aluminum Filter	6/14	0.17	24	17.8	5.21	4.08	-

Building 8 & Building 9, VRV Schedule (Outdoor Unit)

Items	Equipment No.	Qty.	Floor	Location	Area Served	Model No.	Cooling Capacity (kW)	Refrigerant	Refrigerant Pipe Size (Gas / Liquid) (mm)	Power Supply (V/ph/Hz)	Power Input (kW)	Remarks
1	VOU-14 (A)	2 (1 set)	B8 UR/F	Outdoor	ELV RM 8.2/ ELV RM 8.4	MMY-UP2811HT8P(28HP)	40.0	R410A	28.6 / 15.9	380/3/50	8.65	-
2	VOU-14 (B)	2 (1 set)	B8 R/F	Outdoor	ELV RM 8.1/ ELV RM 8.3 / RF MCC RM	MMY-UP2811HT8P(28HP)	40.0	R410A	28.6 / 15.9	380/3/50	8.65	-
3	VOU-14 (C)	2 (1 set)	B9 R/F	Outdoor	ELV RM 9.2/ ELV RM 9.4 / RF MCC RM	MMY-UP2811HT8P(28HP)	40.0	R410A	28.6 / 15.9	380/3/50	8.65	-
4	VOU-14 (D)	2 (1 set)	B9 UR/F	Outdoor	ELV RM 9.1/ ELV RM 9.4	MMY-UP2811HT8P(28HP)	40.0	R410A	28.6 / 15.9	380/3/50	8.65	-
5	VOU-BM-01	1	B9 BM/F	Car Park	ELV 9.1/ TEL. EQUIP. RM	MCY-MAP0401TP	12.1	R410A	15.9 / 9.5	220/1/50	3.18	-
6	VOU-B-01	1	B8 B1/F	Car Park	ELV 8.3	MCY-MAP0401TP	12.1	R410A	15.9 / 9.5	220/1/50	3.18	-
7	VOU-3HP	2	B8 B1/F	Car Park	B/F ELV RM 9.1/ BM/F ELV RM 9.1	RYZQ3BAV	8.0	R410A	9.5 / 15.9	220/1/50	1.95	-
8	VOU-5HP	5	B8 B1/F	Car Park	B1/F ELV 8.1/ B1/F Server RM/ BM/F Network Equipment RM	RJZQ5BAV	14.0	R410A	9.5 / 15.9	220/1/50	3.62	-
9	VOU-6HP	1	B8 B1/F	Car Park	ELV 8.1	RJZQ6BAV	15.5	R410A	9.5 / 19.1	220/1/50	4.19	-

Building 8 & Building 9, VRV Schedule (Indoor Unit)

Items	Equipment no.	Nos.	Floor	Location	Area served	Model no.	Cooling capacity (kW)	Refrigerant	Refrigerant pipe size (gas / liquid) (mm)	Power supply (V/ph/Hz)	Power input (kW)	Remarks
1	VIU-04	28	B9 1-8/F	ELV 9.1-9.4	ELV 9.1-9.4	MMK-UP0181HP-E	5.6	R410A	12.7 / 6.4	220/1/50	0.032	-
2	VIU-06	1	B9 R/F	MCC RM	MCC RM	MMK-UO0271HP-E	8.0	R410A	15.9 / 9.5	220/1/50	0.034	-
3	VIU-04	28	B8 1-8/F	ELV 8.1-8.4	ELV 8.1-8.4	MMK-UP0181HP-E	5.6	R410A	12.7 / 6.4	220/1/50	0.032	-
4	VIU-06	1	B8 R/F	MCC RM	MCC RM	MMK-UO0271HP-E	8.0	R410A	15.9 / 9.5	220/1/50	0.034	-
5	VIU-B9-01	2	B9 G/F	ELV 9.1/ TEL. EQUIP. RM	ELV 9.1/ TEL. EQUIP. RM	UP0151HP-E	4.5	R410A	12.7 / 6.4	220/1/50	0.028	-
6	VIU-B8-01	1	B8 G/F	ELV 8.3	ELV 8.3	UP0151HP-E	4.5	R410A	12.7 / 6.4	220/1/50	0.028	-
7	VIU-2HP	2	BM/F	ELV 9.1/ Network Equipment RM	ELV 9.1/ Network Equipment RM	FXAQ50AVM	5.6	R410A	12.7 / 6.4	220/1/50	0.060	-
8	VIU-2HP	5	B/F	Server RM/ ELV 8.1 RM	Server RM/ ELV 8.1 RM	FXAQ50AVM	5.6	R410A	12.7 / 6.4	220/1/50	0.060	-
9	VIU-3HP	1	BM/F	Network Equipment RM	Network Equipment RM	FXAQ80BVMN	9.0	R410A	15.9 / 9.5	220/1/50	0.070	-
10	VIU-3HP	6	B/F	ELV 8.1/ ELV 9.1/Server RM	ELV 8.1/ ELV 9.1/Server RM	FXAQ80BVMN	9.0	R410A	15.9 / 9.5	220/1/50	0.070	-

Building 8 & Building 9, VAV/ CAV Equipment Schedule

Items	Building	Equipment no.	Qty.	Floor	Location	Area served	Model no.	Air flow rate (L/s)	Power supply (V/ph/Hz)	Remarks
1	8	VAV-B8-101 To 801; VAV-B8-102 To 802; VAV-B8-103 To 803; VAV-B8-104 To 804;	28	1/F-8/F	Corridor	Corridor	TVB-C/8/0	180	220V/1/50Hz	
2	8	CAV-B8-101 to 801; CAV-B8-102 to 802	14	1/F-8/F	BOH Corridor	BOH Corridor	TVB-C/8/0	300	220V/1/50Hz	
3	8	CAV-B8-103 to 803	7	1/F-8/F	BOH Corridor	BOH Corridor	TVB-C/8/0	90	220V/1/50Hz	
4	8	CAV-B8-103 to 804	7	1/F-8/F	BOH Corridor	BOH Corridor	TVB-C/8/0	50	220V/1/50Hz	
5	9	VAV-B9-G01 To G03; VAV-B9-101 To 801; VAV-B9-102 To 802; VAV-B9-103 To 803; VAV-B9-104 To 804;	31	G/F-8/F	Corridor	Corridor	TVB-C/8/0	180	220V/1/50Hz	
6	9	CAV-B9-102 to 802; CAV-B9-102 to 802	14	1/F-8/F	BOH Corridor	BOH Corridor	TVB-C/8/0	300	220V/1/50Hz	
7	9	CAV-B9-103 to 803	7	1/F-8/F	BOH Corridor	BOH Corridor	TVB-C/8/0	40	220V/1/50Hz	
8	9	CAV-B9-103 to 804	7	1/F-8/F	BOH Corridor	BOH Corridor	TVB-C/8/0	100	220V/1/50Hz	

Building 11, Air cool chiller

Location of equipment	Model	Served area	Qty.
Building 11 - R/F	York YCAE065	Building 11	18

Building 11, PAU

Location of equipment	Model	Served area	Qty.
Building 11 - R/F	Saiver A1 series	Building 11	6

Building 11, Fan Coil Unit Schedule

Items	Building	Equipment no.	Model	Qty.	Chiller water temp in / out (℃)	Dimension	Type
1	Building 11	B11-FCU-06	YGFC08CC3U	6	7 / 12.5	1400 x 470 x 233	Duct type
2	Building 11	B11-FCU-08	YGFC10CC3U	5	7 / 12.5	1450 x 470 x 233	Duct type
3	Building 11	B11-FCU-10	YGFC12CC3U	5	7 / 12.5	1700 x 470 x 233	Duct type
4	Building 11	B11-F-FCU-06	YGFC08VC3H	3	7 / 12.5	1375 x 263 x 549	Floor mount
5	Building 11	B11-FCU-06	YKGW15CDE--M-WX	52	7 / 12.5	950 x 950 x 345	Cassette type

Building 11, VRV System

System Block	Item / Tag	Qty	Model Number	Remark / Location
System 1	VOU-08	1	MMY-MUP1601HT8P	Outdoor Unit
System 1	VIU-06	1	MMK-UP0271HP-E	For ELV ROOM
System 1	VIU-05	6	MMK-UP0241HP-E	For ELV ROOM
System 1	VIU-05	6	MMK-UP0241HP-E	For MCC ROOM
System 2	VOU-04	1	MMY-MUP0801HT8P	Outdoor Unit
System 2	VIU-05	2	MMK-UP0241HP-E	For LVSB ROOM
System 2	VIU-05	2	MMK-UP0241HP-E	For ELV ROOM
Total Indoor + Outdoor Qty 19				

Building 11, Split type unit

Location of equipment	Model	Served area	Qty.
Building 11	RAS-18 J2KV-HK	Room Area	92 outdoor unit 92 indoor unit
Building 11	RAS-M22N4KV	Room Area	8 outdoor unit 16 indoor unit

Building 11, Fan Schedule

Item No.	Floor	Fan No.	Type	Location	Qty	Air Flow Rate (CMH / l/s)	External Static Pressure (Pa) [Design]	Calculated Static Pressure (Pa)	Selected Static Pressure (Pa)	Max Fan Speed (RPM)	Max Fan Motor Rating (kW)	Electrical Starter	Local Motor Control Panel (LMCP)	Remarks
1	G/F	EAF-811-001	Inline Centrifugal	THE ROOM	1	180	300	240	200	1,450	0.25	220/1/50, DOL	Required	
2	G/F	EAF-811-002	Inline Centrifugal	MAINTENANCE EQUIPMENT STORE	1	140	50	230	200	1,450	0.25	220/1/50, DOL	Required / LMCP-811GE-01	Cw odor sensor & active carbon filter
3	G/F	EAF-811-003	Inline Centrifugal	MAINTENANCE EQUIPMENT STORE	1	180	450	530	450	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GE02	Cw odor sensor & active carbon filter
4	G/F	EAF-811-004	Inline Centrifugal	GREASE TRAP ROOM / LV SWITCH RM	1	190	50	410	450	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GED	
5	G/F	EAF-811-005	Inline Centrifugal	FSI GENERATOR RM	1	380	50	210	350	1,450	0.55	220/1/50, DOL	LMCP-811-GEDE	
6	G/F	EAF-811-006	Inline Centrifugal	F.S.. & SPRINKLER TANK & PUMP RM	1	220	450	410	450	1,450	1.10	220/1/50, DOL	LMCP-811-GEDE	
7	G/F	EAF-811-007	Inline Centrifugal	PUMP & TANK ROOM (POTABLE & FLUSHING)	1	850	400	330	400	1,450	1.10	220/1/50, DOL	LMCP-811-GED	
8	G/F	EAF-811-008	Inline Centrifugal	WATER METER ROOM	1	120	450	280	400	1,450	0.25	220/1/50, DOL	LMCP-811-GEDE	
9	G/F	EAF-811-009	Inline Centrifugal	REFUSE COLLECTION STORAGE CHAMBER	1	50	50	380	500	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GEDU	Cw odor sensor & active carbon filter
10	G/F	EAF-811-010	Inline Centrifugal	RECYCLING CORNER	1	140	20	380	400	1,450	0.25	220/1/50, DOL	Required / LMCP-811-010	Cw odor sensor & active carbon filter
11	G/F	EAF-811-011	Inline Centrifugal	IRRIGATION WATER PUMP & TANK ROOM	1	180	450	220	350	1,450	0.25	220/1/50, DOL	LMCP-811-GE11	

Item No.	Floor	Fan No.	Type	Location	Qty	Air Flow Rate (CMH / l/s)	External Static Pressure (Pa) [Design]	Calculated Static Pressure (Pa)	Selected Static Pressure (Pa)	Max Fan Speed (RPM)	Max Fan Motor Rating (kW)	Electrical Starter	Local Motor Control Panel (LMCP)	Remarks
12	G/F	KEF-811-001	DIDW Centrifugal	SHOP 11G4 - KITCHEN	1	500	450	270	400	1,450	0.75	220/1/50, VFD	LMCP-811-GK01	
13	G/F	KEF-811-002	DIDW Centrifugal	SHOP 11G5 - KITCHEN	1	1,100	450	200	400	1,450	0.75	220/1/50, VFD	LMCP-811-GK10	
14	G/F	EAF-811-T01	Inline Centrifugal	SHOP 1101	1	100	50	240	400	1,450	0.25	220/1/50, DOL	LMCP-811-GT01	
15	G/F	EAF-811-T02	Inline Centrifugal	SHOP 1102	1	100	450	230	350	1,450	0.25	220/1/50, DOL	LMCP-811-GT02	
16	G/F	FAF-811-001	Inline Centrifugal	GREASE TRAP ROOM	1	150	450	400	400	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GF01	Cw odor sensor & active carbon filter
17	G/F	FAF-811-002	Inline Centrifugal	LV SWITCH RM	1	190	410	410	400	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GF02	
18	G/F	FAF-811-003	Inline Centrifugal	F.S.. & SPRINKLER TANK & PUMP RM	1	270	420	360	400	1,450	1.10	220/1/50, DOL	LMCP-811-GF03	
19	G/F	FAF-811-004	Inline Centrifugal	PUMP & TANK ROOM (POTABLE & FLUSHING)	1	360	400	360	400	1,450	1.10	220/1/50, DOL	LMCP-811-GF04	
20	G/F	FAF-811-005	Inline Centrifugal	WATER METER ROOM	1	120	450	220	400	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GF05	
21	G/F	FAF-811-006	Inline Centrifugal	REFUSE COLLECTION STORAGE CHAMBER	1	50	50	470	400	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GF06	Cw odor sensor & active carbon filter
22	G/F	FAF-811-007	Inline Centrifugal	REFUSE ROOM / RECYCLING CORNER	1	140	60	300	400	1,450	0.25	220/1/50, DOL	Required / LMCP-811-GF07	Cw odor sensor & active carbon filter
23	M/F	EAF-811-M01	Inline Centrifugal	RECYCLING CORNER / REFUSE ROOM	1	120	450	500	450	1,450	0.25	220/1/50, DOL	Required / LMCP-811-MF01	Cw odor sensor & active carbon filter
24	M/F	EAF-811-M02	Inline Centrifugal	G/F LAV, CLEANER RM ETC / A/C PLANT	1	740	450	360	450	1,450	1.10	220/1/50, DOL	LMCP-811-MP02	
25	M/F	EAF-811-M03	Inline Centrifugal	M/F LAV, CLEANER RM ETC / A/C PLANT	1	720	450	550	400	1,450	1.10	220/1/50, DOL	LMCF-811-MP03	
26	M/F	KEF-811-M01	DIDW Centrifugal	SHOP 11M1 - KITCHEN	1	530	450	220	400	1,450	0.75	220/1/50, VFD	LMCP-811-MM01	
27	M/F	KEF-811-M02	DIDW Centrifugal	SHOP 11M2 - KITCHEN	1	530	450	220	400	1,450	0.75	220/1/50, VFD	LMCP-811-MM02	
28	M/F	KEF-811-M03	DIDW Centrifugal	SHOP 11M3	1	240	450	580	550	1,450	0.25	220/1/50, VFD	LMCP-811-MM03	
29	Roof	EAF-811-R01	Inline Centrifugal	UTILITY ROOM / ROOF FAN ROOM	1	1,200	200	320	550	1,450	0.25	220/1/50, DOL	Required / LMCP-811-RE01	

Item No.	Floor	Fan No.	Type	Location	Qty	Air Flow Rate (CMH / l/s)	External Static Pressure (Pa) [Design]	Calculated Static Pressure (Pa)	Selected Static Pressure (Pa)	Max Fan Speed (RPM)	Max Fan Motor Rating (kW)	Electrical Starter	Local Motor Control Panel (LMCP)	Remarks
30	Roof	EAF-811-R02	Inline Centrifugal	1F TO 4F REFUSE ROOM / ROOF FAN RM	1	320	200	320	500	1,450	0.25	220/1/50, DOL	Required / LMCP-811-RE02	Cw odor sensor & active carbon filter
31	Roof	EAF-811-R03	Inline Centrifugal	1F TO 4F WET PANTRY / ROOF FAN RM	1	320	200	180	450	1,450	0.25	220/1/50, DOL	Required / LMCP-811-RE03	Cw odor sensor & active carbon filter
32	Roof	KEF-811-R01	DIDW Centrifugal	ROOF FAN ROOM / G/F KITCHEN	1	300	450	390	450	1,450	0.25	220/1/50, VFD	Required / LMCP-811-RE04	Cw odor sensor & active carbon filter
33	Roof	EAF-811-R05	Inline Centrifugal	A/C PUMP ROOM	1	100	200	150	450	1,450	0.25	220/1/50, DOL	LMCP-811-RE05	

TSTP Fan Schedule

Items	Floor	Fan. No.	Fan Model	Type	Location	Area Served	Qty.	Air Flow Rate (L/s)	Static Pressure (Pa)	Max. Fan Speed (rpm)	Max. Fan Motor Rating (kW)	Volt/Ph/Hz	Starter	Local Motor Control Panel
1	G/F	EAF-TSTP-G01	AXC710-9 / 27-4-P	AXIAL FAN	UPPER PART OF EQUALIZATION TANK	UPPER PART OF EQUALIZATION TANK	1	5500	300	1440	4.00	380/3/50	DOL	LMCP-TSTP-G01
2	G/F	EAF-TSTP-G02	AXC710-9 / 20-4-P	AXIAL FAN	UPPER PART OF SLUDGE HOLDING TANK	UPPER PART OF SLUDGE HOLDING TANK	1	4430	300	1440	3.00	380/3/50	DOL	LMCP-TSTP-G02

B12 Window Type AC Unit Schedule

Items	Equipment No.	Nos.	Floor	Location	Area Served	Model No.	Cooling Capacity (Kw)	Refrigerant	Power Supply (V/Ph/Hz)	Power Input (Kw)	Remarks
1	B12-AC UNIT	1	G/F	SECURITY BOOTH	SECURITY BOOTH	MW-09CRF8B	2.64	R32	220/50/1	0.73	-

Visitor Centre, Fan Coil Unit Schedule

Items	Building	Equipment no.	Qty.	Chiller water temp in / out (℃)	Type
1	Visitor Centre	FCU-14	14	7 / 12.5	Duct type

Remarks: The above equipment list is for reference only. The Provider shall check and verify all existing condition, model, capacity, dimensions and quantity on site.

< End of Document >