

Tender
For
Supply, Delivery & Installation of
Servers, UPS and Maintenance and
Support Service
For
Hong Kong Industrial Artificial
Intelligence and Robotics Centre Limited

(Ref: AI00004)

Part I – General Specification

1. Introduction

The Hong Kong Industrial Artificial Intelligence and Robotics Centre ("FLAIR") is an establishment by the Hong Kong Productivity Council ("HKPC") in partnership with RWTH Aachen Campus, world-renowned institute specialising in engineering technology R&D and applications. Leveraging this powerful collaboration, The Flair is expected to develop new technology knowhow for Hong Kong's applied R&D - in particular innovative solutions related to industrial AI and Robotics. It is also targeting to commercialise at least two spin-offs through proactive R&D outputs, contributing to the reindustrialisation development in Hong Kong.

FLAIR is now looking for qualified supplier(s) (hereinafter referred to as "the Supplier" / "Tenderer / Contractor") to provide Servers, Uninterruptible Power Supply & Maintenance Services (hereinafter referred to as "the Services / the Items").

FLAIR will go through an open tender to invite Suppliers and will enter into contract with the selected Supplier based on the terms and conditions of this tender document (hereinafter referred to as "the Tender").

2. Tender Procedures

2.1. Clarification of Tender

For enquiries, please contact the following person:

Clara Lee, (Manager, Procurement)
Finance and Procurement Division
Tel: (852) 3978 2907
Email: claralee@hkflair.org

Ivy Lau, (Assistant Manager, Finance & Procurement)
Finance and Procurement Division
Tel: (852) 3978 2910
Email: ivy Lau@hkflair.org

Any clarification questions must be sent by using the Annex 1 – Clarification Question from Tenderer via email to claralee@hkflair.org and ivylau@hkflair.org on or **before 19 Jul 2024 HK Time**. The questions with the answers will be posted on FLAIR's website www.hkflair.org on or before **25 Jul 2024**. In this event anonymity will be maintained. Late enquiries may not be considered.

2.1. Submission of Tender Proposals

Based on “Part II – Technical Specification” and “Part III – Fee Specification”, your tender should be completed in two proposals, namely “Technical Proposal” and “Pricing Proposal” with **one set of original document, one set of duplicated document and one soft copy on CD Rom/USB drive for Technical Proposal and one set of original document, one set of duplicated document and one soft copy on CD Rom/USB drive for Pricing Proposal**, which should be:

- sealed and returned by hand in two plain envelopes with the provided Cover Sheet stuck on each of the two envelopes;
- marked with “Technical Proposal” or “Pricing Proposal” on the envelopes;
- marked with the tender reference and closing date on the envelopes; and
- **Tender proposals shall be lodged in the FLAIR Tender Box, located at the Reception area at G/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong.**
- **submitted not later than 15:00, 30 July 2024 (HK Time).**

Both the hard copies and soft copy of the documents must be submitted in their separate envelopes of Technical and Pricing Proposal respectively.

In case Tropical Cyclone Warning Signal No. 8 or above is hoisted, or Black Rainstorm Warning Signal announced by the Government is/are in force, for any duration between 0830 and 1500 hours (Hong Kong time), the latest date and time before which Tenders are to be submitted to our tender box will be extended to one working day.

Late tenders may not be accepted.

2.1.1. The Technical Proposal should include at least the following:

- Tender Submission Form
- Copy of valid Business Registration Certificate or equivalent documents
- Copy of insurance certificates such as Public Liability, Employee Compensation listed on Section 5
- Annex 2 - Confirmation Letter for Compliance with Anti-Collusion Clauses
- Documents and information required in “Part II – Technical Specification”
- Copy of audited financial statements for the last three financial years, such as income statement and balance sheets, directors and auditors reports, cash flow statements

- Application Form for Inclusion in FLAIR Suppliers List (if you are not registered to FLAIR suppliers list), the form can be download from FLAIR website:

<http://www.hkflair.org/>

NO PRICE OR COST should be included in “Technical Proposal”, otherwise the tender may not be considered.

2.1.2. The Pricing Proposal should include at least the following:

- Schedule and Offer Form
- Reply to “Part III – Fee Specification”
- **Validity Period**

Tender proposal submitted by the Tenderer shall remain valid and open for acceptance by FLAIR for a period of not less than 90 days after the Tender Closing Date.

The prices quoted by the Tenderer shall include and shall be deemed to include:

- Delivery at the Tenderer's own risk and expense at such place or places as may be required.
- All royalties and charges for patent rights (if any) and the Tenderer shall indemnify FLAIR, its board of directors, Officers, Servants or Agents and save them harmless against all claims for the infringement of such rights.

2.1.3. Conditions of Tender

- (i) No unauthorized alteration or erasure to the text of the Tender Document will be permitted. Any Tender containing such alteration or erasure may not be considered.
- (ii) No liability will be admitted, nor claim allowed, in respect of errors in the Supplier’s tender due to mistakes which should have been rectified in the manner described above.
- (iii) If estimated quantities are set forth in the Schedule annexed to the Tender they shall be regarded only as a guide to Tenderers and shall not be binding.
- (iv) Tenderer should, at their own expense, visit, inspect and consider the site and access thereto and obtain for themselves all information that must examine the Tender Documents in order to ascertain the matters as to which they will be deemed to have satisfied themselves and the risks obligations, which they are to undertake.

- (v) FLAIR accepts no liability for payments of expenses or losses incurred by any Tenderer in the preparation of its Tender.
- (vi) FLAIR reserves the right to reject any tender where the Conditions of Tender (including but not limited to Technical Specification and/or Fee Specification) are not complied with.
- (vii) FLAIR reserves the right to negotiate with any tenderer about the terms of the tender proposal but is not obliged to do so. FLAIR may at its absolute discretion reject any revised or alternative proposal submitted by such tenderer.
- (viii) FLAIR is entitled to accept either the whole or any part of the tender at its sole discretion. FLAIR is entitled to select any kind of Services / Items under the tender to meet its requirement and is not obliged to accept the lowest price or highest score bidder (as the case may be) and to give any reasons.
- (ix) Without prejudice to FLAIR's right to cancel the Tender, where there are changes of requirements after the Tender Closing Date for operational or whatever reasons, FLAIR is not bound to accept any conforming tender and reserves the right to cancel or withdraw the Tender.
- (x) Tenderers are advised that it is not FLAIR's intention to create any contractual relations in this Invitation to Tender until the award of the Contract and FLAIR is not bound to accept any tender which may be received.
- (xi) NOT USED
- (xii) Contractors' Performance Monitoring
 - If the Selected Supplier is awarded the Contract, its subsequent performance of the Contract will be monitored and may be taken into account when its future offers for other tender exercises are evaluated.

3. General Requirements

3.1. Terms of Payment

Payment will be made by electronic means (e.g. bank transfer with 30 days credit against invoice) after completion of goods / services delivery supported by FLAIR's acceptance, unless otherwise specified.

3.2. Termination

The Contract may be terminated by FLAIR on giving one month prior written notice to the Supplier.

Without prejudice to any other remedy FLAIR may have against the Supplier, FLAIR shall have the right to terminate the Contract immediately if the Supplier:

- (i) is wound up or is petitioned to be wound up, commits an act of bankruptcy or compound or arrange with its creditors or have a receiving order made against it or being a limited supplier enters into compulsory or voluntary liquidation (except for the purposes of amalgamation or restructure only).
- (ii) refuses or prevents the furnishing of services / goods under the contract.
- (iii) breaches or violates any of the terms and requirements contained in the contract.

3.3. Confidentiality

The Supplier shall at all times keep confidential (and to procure that its respective employees shall keep confidential) any confidential information which it may acquire in relation to FLAIR, its clients, business or affairs and shall not use or disclose such information except with the consent of FLAIR or in accordance with the order of a court of competent jurisdiction provided that the obligations of the Supplier contained in this clause shall cease to apply to any information coming into the public domain otherwise than by breach by the Supplier of its obligations contained in this clause and that nothing herein shall prevent the Supplier from disclosing any such information to the extent required in or in connection with legal proceedings arising out of the agreement / contract between the Supplier and FLAIR.

4. Statutory Obligations

4.1. Working hours, rates of wages etc.

The Supplier shall comply with any current legislation or regulations regarding working conditions, working hours, or rates of payment to employees and accept the risk of any impending legislation or other conditions, which alters any obligations or imposes new obligations.

4.2. Compliance with Laws and Regulations

The Supplier shall ensure full compliance in accordance with the laws and regulations of the Hong Kong Special Administrative Region (“Hong Kong”).

4.3. Where applicable, the Supplier (and its sub-contractors, if any) shall ensure that all staff, labour and workers employed and engaged in the supply of the Services to FLAIR are legally entitled to be so employed and engaged, and that all necessary qualification, registration, visas, licenses and permits have been obtained. The Supplier shall indemnify FLAIR on demand from any losses, liabilities, costs and claims resulting from violation of or failure to comply with any terms or conditions of any qualification, registration, permits, licenses or visas or any applicable requirements of Hong Kong laws, ordinances, rules and regulations by staff, labour or workers (e.g. the “Designated workers for designated skills” provision under the Construction Workers Registration Ordinance). From time to time FLAIR may require the Supplier (and its sub-contractors) to demonstrate that all necessary qualification, registration, visas, licenses and permits have been obtained for the lawful employment and engagement of staff, labour and workers in connection with the supply of the Services.

4.4. Safety precautions

The Supplier shall comply with the Labour Department's regulations for safety and health. The Supplier shall be liable for, and shall indemnify FLAIR against, any expense, liability, loss, claim or proceedings whichever arising under any statute or at the common law in respect of personal injury to or death of any person, or in respect of any injury or damage whatsoever to any real or personal property in so far as such injury or damage whomever arising out of or in the course of or caused by the carrying out of the works.

5. Insurance

5.1. Employees' Compensation Insurance

FLAIR shall not be liable for or in respect of any damages or compensation payable at law in respect of or in consequence of any accident or injury to any person in the employment of the Supplier, save and except an accident or injury resulting from the negligence of FLAIR, its agents or servants. The Supplier shall indemnify and keep indemnified FLAIR against all such damages and compensation save and except as aforesaid, and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Compliance with the insurance provisions of this clause shall not limit or modify the Supplier's liability under the indemnity aforesaid.

The Supplier shall insure against such liability with an authorized Insurer in Hong Kong and shall continue such insurance during the whole of the time that any persons are employed by him on the works and shall, when required produce to FLAIR such policy of insurance and the receipt for payment of the current premium.

The Supplier's insurance under this clause shall take the form of an Employees' Compensation Insurance Policy complying with the latest requirements of the Hong Kong Employees' Compensation Ordinance and covering this Common Law liability for an unlimited amount during the period of insurance.

5.2. Third Party / Public Liability Insurance

The Supplier shall indemnify and keep indemnified FLAIR against all losses and claims in respect of injuries to any person or damage to any property whatsoever that may arise out of or in consequence of the provision of the Service and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Compliance with the insurance provisions of this clause shall not limit or modify the Supplier's liability under the indemnity aforesaid.

The Supplier's insurance shall take the form of a third party / public liability insurance policy covering liability for any material or physical damage, loss or injury that may accidentally occur to any property, including that of FLAIR, or to any person including any employee of FLAIR that may occur during or arise out of the performance of the Contract. A "Cross Liability Clause" shall be extended in the policy.

The limit of liability in respect of such third party / public liability shall not be less than HK\$20,000,000 any one occurrence and unlimited during the period of insurance.

6. Protection of properties

- 6.1. The Supplier shall take every precaution necessary to protect the public from injury or death during the course of works.
- 6.2. The Supplier shall maintain and protect all public properties of public utility companies and bear all costs incurred in making good any damage caused thereto.
- 6.3. The Supplier shall take every precaution necessary to protect adjoining properties from damage and shall bear all costs incurred in remedying damage caused through lack of proper care on its part.
- 6.4. Special precautions should be taken to protect properties of FLAIR and its client(s) from damage and the Supplier shall bear all costs incurred in making good all damages caused through lack of proper care on its part.
- 6.5. The Supplier shall maintain all existing roads, footpaths, steps, etc. and reinstate any damage caused by any reason whatsoever during the progress of the works.
- 6.6. It will be the Supplier's responsibility to ensure that the roads leading to and around FLAIR and its client(s) premises shall be kept free from obstruction brought about by the works on the site and in no way shall cause any hindrance to traffic or ancillary works either by its own vehicles or by its workpeople, materials, etc.
- 6.7. The Supplier shall be responsible for repairing damage to private streets and access roads if deterioration occurs during the contract period.
- 6.8. The Supplier shall take all necessary steps to restrict the nuisance of dust and noise.

7. Handling of Materials and Garbage

7.1. Loading and unloading of materials

The Supplier shall take every care in the loading and off-loading of materials for the works, ensure that the streets, roads and footpaths are not obstructed or the traffic impeded and conform with the police regulations therewith.

The Supplier shall take all necessary precautions and care to cause minimal disturbances to the occupants and the usual operations of the existing building.

7.2. Removal of garbage

The Supplier shall remove garbage at frequent intervals during the progress of the works and FLAIR premises shall be left clean and tidy to the satisfaction of FLAIR on completion.

7.3. Treasure trove, coin, etc.

Any treasure trove, coins or objects of antiquity shall become the property of FLAIR and shall be carefully removed by the Supplier and handed to FLAIR.

8. Liquidated Damages

If the Supplier is unable to satisfactorily complete the work in accordance with the specification and within the specified completion time, the contractor may be subject to pay FLAIR as liquidated damages of 1% of contract value per day for each day the completion time is delayed, subject to a ceiling of 10% of total contract value.

9. Warning against Bribery

9.1. The offer of an advantage to any public officer with a view to influencing the award of the Contract is an offence under the Prevention of Bribery Ordinance (Chapter 201 of the Laws of Hong Kong). Any such offence committed by a Tenderer or any of its officers (including directors), employees or agents will render its Tender null and void.

9.2. The successful Tenderer shall inform its officers, employees (whether permanent or temporary), agents and sub-contractors who are connected with the supply of the Goods that

the soliciting or accepting of advantages, as defined in the Prevention of Bribery Ordinance (Chapter 201 of the Laws of Hong Kong) is not permitted. The successful Tenderer shall also caution its officers (including directors), employees and agents and sub-contractors against soliciting or accepting any hospitality, entertainment or inducement which may impair their impartiality in relation to the selection of its sub-contractors, if any, or the supervision of the work of the sub-contractors once selected.

10. Force Majeure

Neither parties shall be liable for failure to perform its obligations under the Contract if such failure is as a direct result of circumstances well beyond their control. In the event of a Force Majeure event, the party suffering adverse circumstances will make best endeavours to remedy the situation as soon as the circumstances have changed. The Supplier is expected to use diligence in selecting sources of supply for bought out parts and to exert the necessary control over his contracts such that late delivery of bought out parts and material will not be considered a case of Force Majeure.

11. Default

If the Supplier fails to carry out all or any of the Services provided for in the Contract within the Contract Period or such extended period as may be agreed by both parties, FLAIR may at its absolute discretion terminate the whole or any part of the Contract by notice in writing to the Supplier, but without prejudice to any claims by FLAIR for breach of Contract including but not limited to its right of FLAIR to assign the balance of the uncompleted Services to another contractor or contractors whereupon the Supplier shall be liable for any sums so incurred in excess of the contract price.

12. NOT USED

Part II – Technical Specification

1. Obligations of the Supplier

- 1.1. Subcontracting and / or out-sourcing the works to other sub-supplier(s) without the prior consent from FLAIR is not allowed.
- 1.2. The Supplier shall meet all the terms and requirements set out in this tender document.

2. Scopes of Service

Suppliers should provide hardware with support service to meet the following requirements.

NC notes area:

2.1. Supply, deliver and install lightweight GPU server for FLAIR (Total 4 Units)

The requirement for each unit shall as follows:

- 2.1.1. Suggested brand: HPE, or equivalent;
- 2.1.2. Provide CPU: 2 x Intel® Xeon 6526Y 2.8G, 16C, or above;
- 2.1.3. Provide RAM: 12 x 32GB 5600 MHz DDR5 memory, or above; Support up to 32 DIMMs;
- 2.1.4. Provide GPU: 2 x NVIDIA L20 48GB GPUs, or above; CUDA supported;
- 2.1.5. Provide Network Adapters: Shall have Dual Port 1GbE on motherboard, or equivalent; Shall have Quad Port 10/25GbE OCP card, or equivalent;
- 2.1.6. Provide Storage: 2x 3.84TB SSD, or above; Shall have RAID controller with 8GB NV Cache and support RAID 0, 1, 1/0, 5, 6, 50, 60; Shall support rear dual M.2 960GB Hot-plug drive in redundant mode for hypervisor, so that content of primary drive will be mirrored on secondary one;
- 2.1.7. Provide Operation System: Ubuntu Desktop 24.04 LTS shall be installed;
- 2.1.8. Provide PCI Slots: Support up to 8x PCIe slots
- 2.1.9. Other Components: Shall have standard baseboard management controller with IPMI 2.0 support and provide HTML5 web GUI access;
 - Shall provide LCD panel in front metal security bezel to display system health information;
 - Shall provide one onboard card slot for LAN on motherboard;
 - Shall provide factory generated random password for hardware management remote console;

- Remote management console software should support integration with common 3rd parties management tools such as Microsoft System Center, VMware vCenter and vRealize Operations Manager, Red Hat Ansible, Terraform Providers, ServiceNow, BMC Truesight etc;
 - Shall include single remote management console software license for telemetry of power, thermal, and fans;
 - Shall be able to quickly and securely monitor or modify critical server settings by Wifi/BLE on Mobile App;
 - Shall be able to retrieving system log and sending to vendor's support center, and then call logging;
- 2.1.10. Provide security: Shall have built in Trusted Platform Module (TPM 2.0); Shall have front bezel cover with lock to protect un-authorized access to hard drive; Shall able to lockdown whenever drift on configuration of BIOS and RAID controller; Shall able to quickly and securely erase internal HD, SSD and NVMe drives; Shall support hardware-based instant secure erase to clean up all internal storage data;
- 2.1.11. Provide Power and Cooling: Shall bundle with two redundant hot-plug 1400W power supplies; Shall support maximum 2800W redundant power supply;
- 2.1.12. Provide 3-year warranty, maintenance and support service. The requirement are including but not limited to:
- i. dedicated hotline and email support to handle any technical issues;
 - ii. on-site troubleshooting of equipment;
 - iii. free replacement of defective parts;
 - iv. free collection/disposal of defective parts and delivery of parts;
 - v. next business day (Monday to Friday, except public holiday) on-site services for on-site troubleshooting of equipment with free replacement, delivery and collection of defective parts from the supplier.
 - vi. Support for response within 4 hours after received the call or email;
 - vii. job reports for all service calls;
- 2.1.13. Installation shall be referred to Section 2.5

2.2. Supply, deliver and install High-end GPU server for FLAIR (Total 1 Unit)

- 2.2.1. Suggested brand: HPE, or equivalent;
- 2.2.2. Provide CPU: 2 x Intel® Xeon 8460Y 2G, 40C, or above;
- 2.2.3. Provide RAM: 32 x 64GB 4800 MHz DDR5 memory, or above; Support up to 32 DIMMs
- 2.2.4. Provide GPU: 8x NVIDIA H20 96GB SMX GPUs, or above; CUDA supported; Shall be fully interconnected with linkage no less than 900GB/s;

- 2.2.5. Provide Network Adapter: Shall have 8x Nvidia ConnectX-7 Single Port NDR400 cards, or equivalent; Shall have Quad Port 10/25GbE OCP card, or equivalent;
- 2.2.6. Provide Storage: 2 x 7.68TB Enterprise NVMe SSD, or above; Shall support rear dual M.2 960GB Hot-plug drive in redundant mode for hypervisor, so that content of primary drive will be mirrored on secondary one;
- 2.2.7. Provide Operation System: Ubuntu Desktop 24.04 LTS shall be installed;
- 2.2.8. Provide PCI Slots: Shall support up to ten(10) Gen 5 x16 full-height half-length PCIe network adapters;
- 2.2.9. Other Components:
 - Shall have standard baseboard management controller with IPMI 2.0 support and provide HTML5 web GUI access;
 - Shall provide factory generated random password for hardware management remote console;
 - Remote management console software should support integration with common 3rd parties management tools such as Microsoft System Center, VMware vCenter and vRealize Operations Manager, Red Hat Ansible, Terraform Providers, ServiceNow, BMC Truesight etc;
 - Shall include single remote management console software license for telemetry of power, thermal, and fans;
 - Shall be able to retrieving system log and sending to vendor's support center, and then call logging;
 - At most 6U form factor;
- 2.2.10. Provide Security: Shall have built in Trusted Platform Module (TPM 2.0); Shall have front bezel cover with lock to protect un-authorized access to hard drive; Shall be able to lockdown whenever drift on configuration of BIOS and RAID controller; Shall be able to quickly and securely erase internal HD, SSD and NVMe drives; Shall support hardware-based instant secure erase to clean up all internal storage data;
- 2.2.11. Provide Power & Cooling: Shall bundle with six hot-plug 2800W power supplies with 3 + 3 redundant; Shall have 80 plus titanium certification;
- 2.2.12. Provide 3-year warranty, maintenance and support service. The requirement are including but not limited to:
 - i. dedicated hotline and email support to handle any technical issues;
 - ii. on-site troubleshooting of equipment;
 - iii. free replacement of defective parts;
 - iv. free collection/disposal of defective parts and delivery of parts;
 - v. next business day (Monday to Friday, except public holiday) on-site services for on-site troubleshooting of equipment with free replacement, delivery and collection of defective parts from the supplier.

- vi. Support for response within 4 hours after received the call or email;
- vii. job reports for all service calls;

2.2.13. Installation shall be referred to Section 2.5

2.3. Provide, deliver and install Server Rack

- 2.3.1. Rack Height: 42U
- 2.3.2. Rack Width: 19"
- 2.3.3. Height: 180CM to 200CM
- 2.3.4. Width: 60CM
- 2.3.5. Depth: 120CM
- 2.3.6. Net Weight: 100KG to 120KG
- 2.3.7. Color: Black
- 2.3.8. Front Door: 18 gauge
- 2.3.9. Vertical Posts: 16 gauge
- 2.3.10. Rear Door: 19 gauge
- 2.3.11. Weight Capacity (static load): 1,100KG to 1,300KG
- 2.3.12. Weight Capacity (dynamic load): 550KG to 650KG
- 2.3.13. Need to have a top cover on the server rack (Mention any additional components required, such as roof, side panels, castors, feet, and brackets)
- 2.3.14. 1U/2U rack mount fan panel (featuring auto speed control and alarm warnings)
- 2.3.15. Top cooling fan units of at least six (low-noise, high-performance cooling)
- 2.3.16. Provide 3-year maintenance of equipment with free replacement, delivery, and collection of defective parts from the manufacture
- 2.3.17. Installation shall be referred to Section 2.5

2.4. Provide, deliver and install UPS

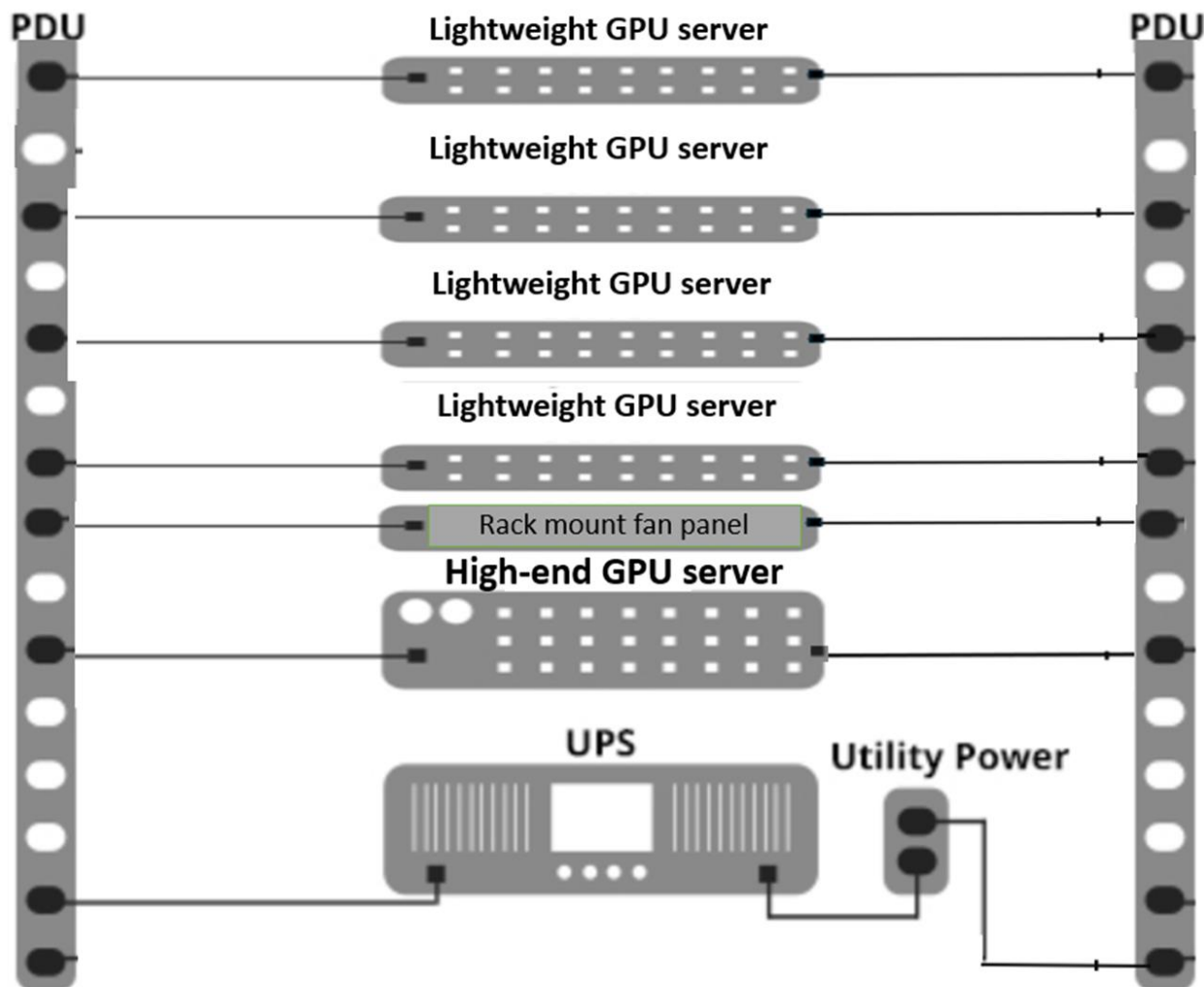
- 2.4.1. Provide a rack mountable UPS, and no exceed 18U rack spaces;
- 2.4.2. UPS needs to mount at server rack (refer to Section 2.3) support and connected to the lightweight GPU servers (refer to Section 2.1) and high-end GPU server (refer to Section 2.2) server and provide all necessary cable/accessories installation service of power and equipment;
- 2.4.3. Support a minimum of 8kVA of power protection and adequate unit of the external battery pack with at least 192V for equipment in Section 2.1 and Section 2.2.
- 2.4.4. Support at least 30 minutes of battery backup time for both lightweight GPU servers (refer

- to Section 2.1) and high-end GPU server (refer to Section 2.2), and other server rack (refer to Section 2.3) stated equipment;
- 2.4.5. Provide automatic self-test functions;
 - 2.4.6. Provide automatic internal bypass mechanism;
 - 2.4.7. Provide battery with at least 3 years design life;
 - 2.4.8. Provide predictive functions in order to alert user for any out-of-limit conditions which could damage key components or reduce efficiency;
 - 2.4.9. Provide status indicators for displaying UPS loading, input and output voltage and alarms;
 - 2.4.10. Provide network management tools with user authentication and data/event logging features through TCP/IP to monitor and/or configure the UPS;
 - 2.4.11. Contain audible alarms and alerts user when there is an error or warning;
 - 2.4.12. Allow a user to read the autonomy time remained based on the actual load and battery condition;
 - 2.4.13. Be able to connect to the infrastructure monitoring system so that phone message of error signal will be sent to responsible staff when error occurs;
 - 2.4.14. Auto-shutdown feature in case of power failure for Linux and Windows operating system;
 - 2.4.15. Provides all necessary UPS power cords/converters for all available UPS input & output ports;
 - 2.4.16. Provide 3-year warranty, maintenance and support service. The requirement are including but not limited to
 - i. dedicated hotline and email support to handle any technical issues;
 - ii. on-site troubleshooting of equipment;
 - iii. free replacement of defective parts;
 - iv. free collection/disposal of defective parts and delivery of parts;
 - v. next business day (Monday to Friday, except public holiday) on-site services for on-site troubleshooting of equipment with free replacement, delivery and collection of defective parts from the supplier.
 - vi. Support for response within 4 hours after received the call or email;
 - vii. job reports for all service calls;
 - viii. equipment on-loan to be delivered on the next working day when the problem cannot be resolved by the engineer within 1 working day.
 - 2.4.17. Installation shall be referred to Section 2.5

2.5. Provide Installation

- 2.5.1. Install a server rack (refer to in Section 2.3) in FLAIR's laboratory(lab) (refer to Section

- 2.5.8), ensuring it has a top cover and includes all necessary components such as a roof, side panels, castors, feet, and brackets.
- 2.5.2. Install two power distribution units (PDUs) in the server rack (refer to Section 2.3), each with at least 12 UK outlets. Connect one PDU to utility power and the other to a high-amperage outlet on the uninterruptible power supply (UPS) system.
 - 2.5.3. Install at least six top cooling fan units for optimal, low-noise, high-performance cooling in the server rack (refer to Section 2.3). Include a 1U/2U rack mount fan panel for cooling lightweight servers (refer to Section 2.1) and high-end GPU servers (refer to Section 2.2), featuring auto speed control and alarm warnings.
 - 2.5.4. Install a 24-port patch panel within new server rack (refer to Section 2.3) and existing server rack located in FLAIR's lab (refer to Section 2.5.8), providing safety cable rails, pipe ducts, and support materials between the two racks, while complying with HKSTC standards and regulations.
 - 2.5.5. Provide LAN connection with cable management, from the patch panel to all servers (refer to Section 2.1, 2.2), and existing equipment. This includes supplying LAN cables, cable rails, and support materials.
 - 2.5.6. Provide the power cable connection from the distribution panel/board to the server rack (refer to Section 2.3), including a 16A socket power strip with at least 2 UK outlets (13A sockets). Ensure one outlet is connected to the utility power and one to the UPS input. Consider factors like durability and safety during installation and include any additional components such as cable rails or ducts.
 - 2.5.7. Install the UPS (refer to Section 2.4) into the server rack (refer to Section 2.3).
 - 2.5.8. FLAIR's lab located on Room 03, RCC lab, BLDG 19W, HONG KONG SCIENCE PARK, SHATIN, NT, HONG KONG.
 - 2.5.9. UPS need to connect to one 13A format socket provided by a 16A socket power strip (refer to Section 2.5.6.)
 - 2.5.10. UPS needs to support and connect 13A socket rack PDU(s), supplier need to provide all necessary quantity of cables/converters on all available UPS output ports.
 - 2.5.11. The proposed arrangement of items installed in server rack as follow.



2.6. Provide Additional Portage Service

2.6.1. Relocation works for 2 nos. of Cabinets.

2.6.2. Details scope of works shall as follow:

- i. 2 nos . of Cabinets which are provided by FLAIR. The dimension of each cabinet: : W120 cm x D45 cm x H200 cm
- ii. Relocation from within FLAIR's lab to 1/F to 12/F FLAIR's office (elevator available) in BLDG 19W, HONG KONG SCIENCE PARK, SHATIN, NT, HONG KONG
- iii. All cost of relocation works are including but not limited to the labor cost, any cost of gear/ tool for relocation.

3. Information to be Provided by the Supplier

3.1. Export Control Declaration

Supplier shall complete the following information related to the Servers

Item	COUNTRY OF ORIGIN
1. (refer to Section 2.1 of Part II – Technical Specification)	
2. (refer to Section 2.2 of Part II – Technical Specification)	
3. (refer to Section 2.4 of Part II – Technical Specification)	

No	Question	Item 1	Item 2	Item 3
1	Please provide Export Control Classification Number (ECCN)	ECCN: _____ (Please go to Q2) N/A: <input type="checkbox"/>	ECCN: _____ (Please go to Q2) N/A: <input type="checkbox"/>	ECCN: _____ (Please go to Q2) N/A: <input type="checkbox"/>
2	Is the Item require Export License for Hong Kong?	Yes: <input type="checkbox"/> No : <input type="checkbox"/>	Yes: <input type="checkbox"/> No : <input type="checkbox"/>	Yes: <input type="checkbox"/> No : <input type="checkbox"/>

3.2. Mandatory Requirements

The Supplier is mandatory to complete the following table which requires full compliance so as to be considered further in the tender evaluation process.

Item	Description/ Requirement	Fully Comply (Yes/ No)	Remarks, if any
1.	Compliance to General Specifications – The Supplier shall ensure full compliance to all the terms, requirements and specifications exclude section 3 as set out in “Part I – General Specification ”.		
2.	Compliance to all requirements as set out in “section 2 of Part II – Technical Specification”.		

3.	<p>Supplier should provide the product information as follows:</p> <p><u>Lightweight GPU Server</u> Brand: _____ Model: _____ Warranty: _____ Leadtime: _____</p> <p><u>High-end GPU server</u> Brand: _____ Model: _____ Warranty: _____ Leadtime: _____</p> <p><u>Server Rack</u> Brand: _____ Model: _____ Warranty: _____ Leadtime: _____</p> <p><u>UPS system</u> Brand: _____ Model: _____ Warranty: _____ Leadtime: _____</p>		
4.	<p>Incoterms: DDP - HK Including delivery to FLAIR Lab (Address: Rm03, RCC lab, 1/F, Building 19W, Hong Kong Science Park, Shatin, NT, Hong Kong)</p>		

3.3. Terms and Conditions Compliance

The Supplier should state its compliance on the Terms and Conditions in the following table.

No.	Description/ Requirement	Fully Comply (Yes/ No)	Remarks, if any
1.	Compliance to all the terms, as set out in Annex 3 – General Terms and Conditions for Contract		

4. Tender Evaluation

- 4.1. Tender responses will be evaluated by two processes: i) Technical Evaluation, and ii) Price Evaluation. Technical Evaluation will be carried out first to ensure that the solutions proposed meet all mandatory requirements specified in this invitation to tender. Price Evaluation will be conducted for tenderers who have passed the technical evaluation.
- 4.2. In principle, tender meeting requirements set by FLAIR in “Part II – Technical Specification” and offering the lowest price in “Part III – Fee Specification” will be considered as successful. However, FLAIR reserves the right to accept the whole or part of the tender and is not bound to accept the lowest or any tender.
- 4.3. Tentative schedule
It is a tentative schedule of the tender process. However, FLAIR reserves the right to change the schedule to suit its operation need.

Items	Tentative Schedule
Tender Q&A Submission by Supplier	19 Jul 2024
Posting of Q&A Reply from FLAIR	25 Jul 2024
Tender Closing Date	30 Jul 2024
Tender Evaluation	Early Aug 2024
Tender Award / Issue Purchase Order	Mid Aug 2024
Delivery schedule	2.5 months upon Purchase Order released (MUST complete the setup by early of Nov 2024)

5. All documents / materials submitted to FLAIR will not be returned.

Part III – Fee Specification

Please submit “Pricing Proposal” with **one set of original documents**, **one set of duplicate documents** and **one soft copy on CD ROM/USB Drive**, which should be sealed in separate plain envelope.

The Tenderer shall complete the tables below to show the prices for the provision of the proposed solutions. All other associated costs shall be specified (if any).

1. Prices

1.1 Price Table

Item No.	Description	QTY	Unit Price (HK\$)	Total Price (HK\$)
1	Supply, Delivery and Installation of lightweight GPU server for FLAIR included 3-year warranty, maintenance and support service. (Please refer to Section 2.1 of Part II – Technical Specification)	4 EA		
2	Supply, Delivery and Installation of High-end GPU server for FLAIR included 3-year warranty, maintenance and support service. (Please refer to Section 2.2 of Part II – Technical Specification)	1 EA		
3	Provision, Delivery and Installation of Server Rack (Please refer to Section 2.3 of Part II – Technical Specification)	1 EA		
4	Provision, Delivery and Installation of UPS included 3-year warranty, maintenance and support service. (Please refer to Section 2.4 of Part II – Technical Specification)	1 EA		

5	Provision of Additional Portage Service (Please refer to Section 2.6 of Part II – Technical Specification)	1 EA		
	(Others if any, please specify)			
Total price				

1.2 Other cost, if any (please specify)

2. Payment Term

Please specify the alternative payment schedule and terms if payment term as stated in section 3 of Part I – General Specification is not acceptable by the Supplier:

3. Validity of Quoted Prices

The offer provided above shall remain valid and open for acceptance by FLAIR for a period of not less than 90 days after the Tender Closing Date.

No change shall be made without the prior consent of FLAIR.

Remarks:

The submitted pricing proposal must comply with the submitted technical proposal in accordance with those requirements set by FLAIR in “Part I – General Specification” and “Part II – Technical Specification”.