法益

檔號	年度號/分類號	保存年限	
	案次號/卷次號/目次號		

亞蔬–世界蔬菜中心 【函】

地址：74199 臺南市善化區郵政第四十二號信箱
聯絡人：黃秀微
電話：06-5837801 分機 211
傳真：06-5830133
電子信箱：hsiu-wei.huang@worldveg.org

受文者：中華民國全國建築師公會

發文日期：中華民國 112 年 4 月 17 日
發文字號：世蔬字第 112094 號
速別：速件
密等及解密條件：普通
附件： 如主旨

主旨：檢送本中心「總部改建計畫舊實驗室改建設計委託服務案」(採購案號：PR 1063543 World Vegetable Center: Exhibition, Training & Collaboration Incubator Hub）招標公告及委託服務內容各乙份，請協助於 貴公會官網公告週知，鼓勵各建築設計相關單位投件競標，至紉公誼。

正本：中華民國全國建築師公會
副本：本中心副主任辦公室（不含附件）

亞蔬–世界蔬菜中心

裝 訂 線

理事長	會務常務理事	財務常務理事	主任委員	秘書長	秘書	承辦人

全國建築師公會 收文 112年 4 月 18 日 第 0847 號

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亞蔬–世界蔬菜中心

裝 訂 線

World Vegetable Center Research Infrastructure Modernization (RIM) Project
WorldVeg Exhibition, Training & Collaboration Incubator Hub Concept & Design

Request for proposals

WorldVeg is looking for a firm to provide concept & design options and an outline program of works for the provision of a building to house the proposed World Vegetable Center's exhibition & virtual Interaction gallery, training & education center, and partner, industry & collaborator incubator hub.

1. Subject of this procurement: PR 1063543 WorldVeg Exhibition, Training & Collaboration Incubator Hub Concept & Design.
2. Attribute of this procurement: Consulting services – firm.
3. Required services: See PR 1063543 Terms of Reference.
4. Bidding procedures: Open bidding and QCBS by WorldVeg DG-appointed panel.
5. The principle of this procurement is the best evaluated bid.
6. The currency of the bid is New Taiwan Dollar (NTD).
7. This procurement is awarded by total price in NTD.
8. This procurement does not allow joint bidding or cover bidding.
9. Bidders shall submit the following bidding documents:
   1) a comprehensive company profile outlining qualifications, capabilities, company compliances and other related information;
   2) examples of recently completed major projects pertaining to exhibition, training center and business hub of a scientific research institute;
   3) the names of two (2) referees—clients who have recently undertaken similar projects;
   4) a concept & design proposal which contains:
      a. Team and performance history
      b. Site survey, observation and analysis
      c. Architectural design (concept, floor/site plan, aerial/perspective views, elevation, section, landscape, facilities)
      d. Construction design (structural system. E/P/FS system, HVAC system)
      e. Environment-friendly sustainability and accessibility design
      f. Construction schedule
      g. Construction budget
      h. Architectural model
      i. 2-minute video of the new building
   5) A powerpoint presentation for a scheduled presentation.
10. The language of bidding documents shall be in English and Chinese, including design, schema, graphic,

picture and text with special techniques or materials. Where there is inconsistency in the bidding documents due to language, the English version prevails.

11. Bidders are required to participate in a site visit and bid meeting before submitting the bids. The site visit is at 2:00pm Friday 28 April 2023 to be followed by a bid meeting from 3:00pm at the Board Room in the WorldVeg Administration Building.
12. Bidders will be evaluated on the following criteria:
    1) Quality (80%)
        a. Creative interpretation, quality design, and best-valued construction budget. (60%)
        The proposal, including diagrams, model and video, demonstrates a creative, flexible and innovative design to high-quality building standards and best-valued construction cost.
        b. Design project team, management and risk approaches. (20%)
        The proposal contains clearly-defined roles and references to responsibilities and principles, providing the qualifications of team members and consultants and the risk management approaches.
        c. Assessment and evaluation of scheduled presentation (20%)
        Ability of presenters to clearly convey and express design concepts. Presenters demonstrate good client interaction (listening and feedback) and adaptability.
    2) Cost of design service (20%)
13. The bid opening of this procurement shall be in one-step. All bidding documents shall be sealed in one envelop. Bidders will not be invited to the bid opening.
14. Bidders that pass the qualification review at the bid opening will be invited to a scheduled presentation at the date and time organized by WorldVeg. The presentation must be given in En4glish.
15. Where bidders have questions about the bidding documentation, they should raise them by phone or by email with the subject of "PR 1063543 WorldVeg Exhibition, Training & Collaboration Incubator Hub Concept & Design" before Friday 19 May 2023 to WorldVeg Procurement Officer Ms. Huang (06-5837801 ext. 211, purchasing@worldveg.org).
16. The validity period of the bid: from the time of submitting bids to 120 days after bid opening. In the event that this procurement can't be awarded during the validity period stated above, WorldVeg may request the bidders to extend the validity period of the bid.
17. This procurement allows bidders to amend or supplement their bidding documents before bid opening as long as the amendment or supplement does not involve the essential parts of the Contract.
18. Where necessary, WorldVeg may notify a bidder to submit the original copies of qualification documents for checking if the qualification document is submitted in photocopy.
19. The bidding documents with the subject of "PR 1063543 WorldVeg Exhibition, Training & Collaboration Incubator Hub Concept & Design" shall be submitted **before 4:45PM Friday 9 June 2023** by postal delivery or personal delivery to the following receipt address:
    1) Postal delivery: P.O. Box 42, Shanhua, Tainan, Taiwan 74199
    2) Personal delivery: Procurement Office WorldVeg Headquarters (60 Yi-Min Liao, Shanhua, Tainan, Taiwan)
20. Bidders may use electronic devices to transmit bids before the deadline; and the electronic data

thus provided shall be deemed as formal written document. The e-mail with the subject of "PR 1063543 WorldVeg Exhibition, Training & Collaboration Incubator Hub Concept & Design" shall be sent to: purchasing@worldveg.org.

21. WorldVeg's procurements are carried out in compliance with public procurement principles. Procurement related complaints can be filed using the process described in the Procurement Page of WorldVeg's website (https://avrdc.org/worldveg-procurement/).

World Vegetable Center

TERMS OF REFERENCES (TOR) FIRM CONSULTANCY

1. CONSULTANCY SUMMARY

Title: PR 1063543 World Vegetable Center: Exhibition, Training & Collaboration Incubator Hub.
Consultancy Type: Consulting services - firm
Division: HQ
Duration: 1 July – 31 October 2023
Duty Station: HQ
Reporting to: Yedda Palemeq, RIM-Project Manager & Head-Procurement Services
Expected Deliverables: Provide concept & design options and an outline program of works for the provision of a building (either refurbished existing laboratory or new purpose-built building) to house the proposed World Vegetable Center's Exhibition & Virtual Interaction Gallery, Training & Education Center, and Partner, Industry & Collaborator Incubator hub.

2. INTRODUCTION AND BACKGROUND

The World Vegetable Center (WorldVeg) is currently undergoing a major renewal of its research and technical support infrastructure at its Headquarters site located in Shanhua, Taiwan. The *Research Infrastructure Modernization* (RIM) project, funded from a grant from the Taiwan Council of Agriculture, will realize the construction of a new research laboratory building, new greenhouse facilities, the upgrade of electricity and other core services, and the re-landscaping of the Shanhua HQ site to create enhanced pedestrian circulation areas, set amongst a network of vegetable demonstration gardens.

Upon completion and occupation of the new research laboratory building (expected by the end of 2023), WorldVeg is looking to re-purpose the old (vacated) laboratory building to create a dynamic hub for interactions. This hub will further advance and promote its strategy to develop an Open Science Center with a focus on international science excellence in vegetable science, research outreach, and broader industry and societal impacts.

The new hub will include: an exhibition and virtual interaction galley that showcases the capabilities and research activities of WorldVeg, with particular focus on the fantastic diversity and beauty of vegetable crops and the critical role that they play for the livelihoods and nutritional well-being of people worldwide; an international training and education center; and a co-working incubator-style space to allow the hosting of industry, donor, government and collaboration partners.

The vacated laboratory building to become available for this purpose was constructed in 1974, occupies an area of around 2,826.32 m^2 (**Attachment: Old Lab Building Area**) and sits on a prominent site opposite the WorldVeg Headquarters Administration Building.

3. OBJECTIVES OF THE CONSULTANCY AND EXPECTED RESULTS

The purpose of this consultancy is to select and engage suitably qualified and imaginative firms to assist WorldVeg in analyzing and developing a number of options for the old laboratory building and/or the site to allow for the development of the new exhibition, training and collaborations incubation hub.

Upon completion, the new building and facilities will include:

1) VegWorld Exhibition and Virtual Interaction Gallery (750m^2):

- A new exhibition and virtual interaction gallery to provide a combination of virtual and some static displays showcasing the wonderful diversity of vegetables and the importance of innovation and action-oriented partnerships to stimulate much needed increases in vegetable production and consumption around the world.

- The displays will showcase the tremendous diversity in vegetable crops and cropping systems and their importance for healthier lives and more resilient livelihoods.

- Displays and exhibits will be interactive and will highlight:

    - The diversity of vegetable seeds and their centers of origin around the world, including displays of different seeds in glass vials, and options to magnify seeds to have a closer look at their morphology.

    - The declining trend in vegetable biodiversity because of homogenization of diets, urbanization and industrialization, which will narrow the options future generations will have to nourish populations facing the consequences of climate change.

    - The central role of WorldVeg genebanks for the rescue, conservation and distribution and use of critical vegetable germplasm and biodiversity, including wild relatives.

    - The work undertaken by WorldVeg and partners at WorldVeg's HQ site and across its network of international sites to stimulate vegetable production and consumption in a safe and environmentally sound manner.

    - The importance of new technologies and tools such as: plant phenotyping, genomics, plant selection and breeding for enhanced traits, agronomy and new farm management systems, new pest and disease control techniques, impacts of climate change and pathways for adaptation and reliance, the application of evolving artificial intelligence and automation opportunities in vegetable research and applications, and the development of information and decision tools for improved and sustainable vegetable production with vastly reduced environmental footprint.

    - The optimization of vegetable farming production systems across varying and difficult environments, with emphasis on reducing their environmental footprint.

    - The impact of vegetable research in the development and promotion of nutritious diets, post-harvest and processing opportunities, new products, and providing information to farmers, governments and industry on issues and opportunities for productive and sustainable vegetable farming systems and their broader influences.

    - The importance of understanding major bottlenecks to increasing vegetable consumption and related policies and actions to overcome such constraints.

    - Other topical displays and activities on a changing basis.

- It is envisaged the new exhibition space will become a destination for school and university students, the general public on designated open days, and a key venue for official delegations – including industry, donors, government and research stakeholders.

2) **Training and Education Center (500m^2):**

- The Training and Education Center will provide facilities for classroom and hands-on- based lessons for a range of clients – including school and university students, industry and technical groups, and research partners. It is expected that participants will include Taiwan-based and international groups.

- The Training and Education Center must provide facilities for traditional and modern interactive/virtual/networked teaching environments.

- For on-site training classes and activities, the Center would cater for small to medium classes with up to 40 participants.

3) **Partner, Industry and Collaboration Incubator (500m^2):**

- The Partner, Industry and Collaboration Incubator will provide a co-working environment that will support people from industry, government and other organizations that typically would partner with WorldVeg to promote vegetable science research, technology, research policy or output-faced applications and extension activities.

- Both office and open plan work environments will be provided within this area – supported by small meeting rooms and common support areas, e.g. photocopy room, tea-making facilities, storage, toilets and related amenities.

- The capacity of this space is estimated to be at around 20 people.

- Users of the Partner, Industry and Collaborator Incubator will be both short and long-term tenants.

4) **Entry and Circulation Space (100m^2):**

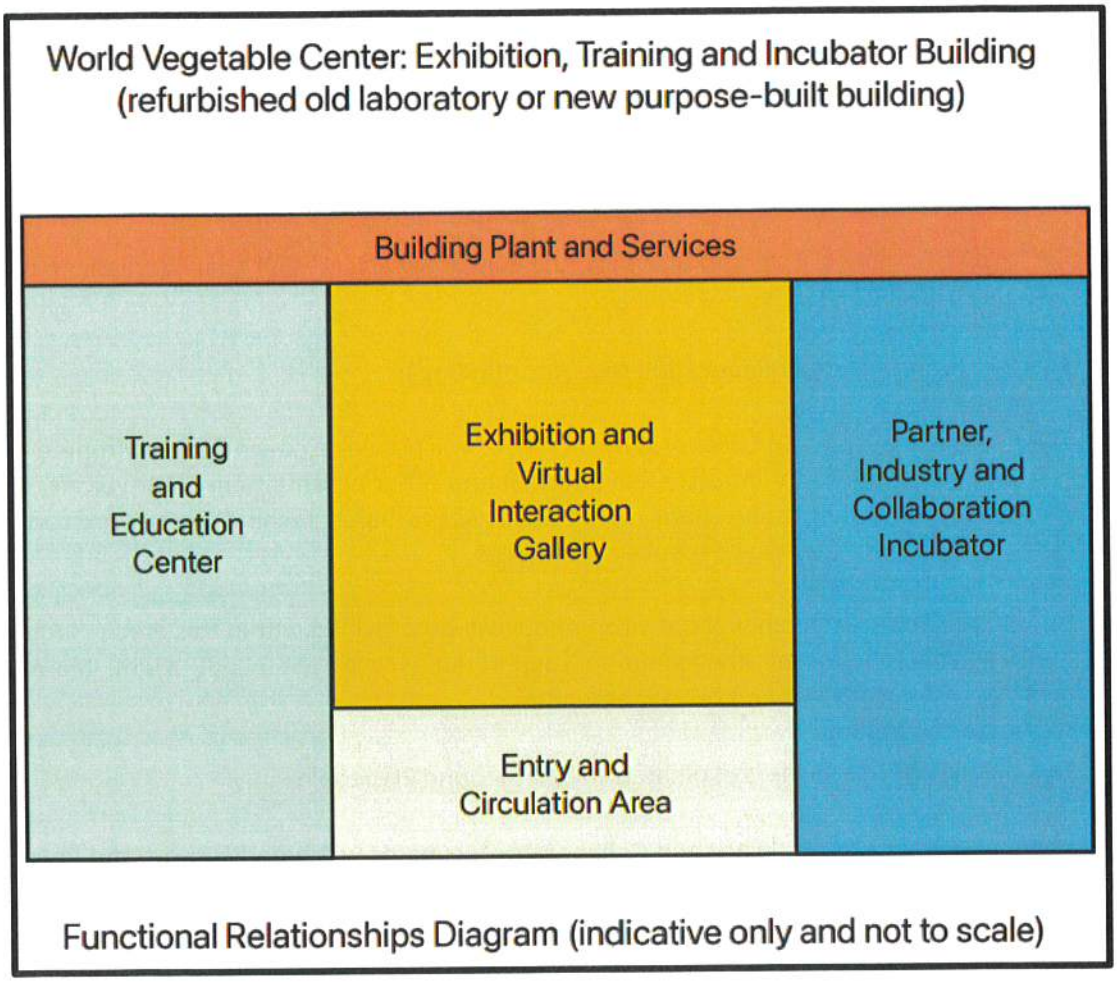
- A welcome area for visitors.

5) **Building Plant and Services (150m^2):**

- For facilities such as air conditioning, air handling systems, pumps, network control, electricity distribution boards / rooms and other building associated equipment and services. May be located in multiple locations as required by design.

Functional Relationships Diagram

The following diagram provides a visual representation of the various functions and activities that will be housed within the new WorldVeg Exhibition, Training & Incubator Building.



Notes on Functional Relationships Diagram

- The diagram is indicative only and is not to scale.
- The new functions and activities could be housed in the refurbished old laboratory building or a new purpose-built building. The consultants will be required to provide an analysis of the options - highlighting design opportunities/constraints and indicative costings for each option.
- Floor areas for the individual activities and functions have not yet been defined. It is expected that the refurbished or new building would occupy a smaller footprint than the existing 2,826.32 m^2 old laboratory building.
- As a starting point, and subject to further discussion and exploration, the following indicative floor areas are nominated:

Space	Area
Exhibition and Virtual Interaction Gallery	750m^2
Training and Education Center	500m^2
Partner, Industry and Collaboration Incubator	500m^2

Space	Area
Entry and Circulation Space	100m^2
Building Plant and Services	150m^2
Total indicative building floor area	2,000m^2

4. DESCRIPTION OF THE ACTIVITIES BY THE CONSULTANT

The consultant will engage with the World Vegetable Center's executive management, research and technical staff, other consultants and stakeholders to drive and facilitate discussions to develop options for the re-purposing of the old laboratory building or for the construction of a new purpose-built facility.

Activities will include:

- visioning and conceptual design workshops and meetings;
- review of the latent conditions of the old laboratory building / site, including analysis and validation of engineering and other condition reports previously undertaken;
- undertaking of additional studies, as required, to provide direction around the suitability of the old laboratory building for refurbishment to accommodate the proposed functions and activities;
- if shortcomings in the re-purposing of the old laboratory building are identified, provide alternative options that would deliver the stated requirements;
- develop preliminary concept design and sketch plans illustrating proposed solutions, spatial relationships, floor areas and indicative costings;
- partner with specialist exhibition design contractors to develop potential models and layouts for the Exhibition and Virtual Interaction Gallery;
- identification of the proposed methodology and project management structure to move the project through detailed design, approvals and construction phases;
- prepare outline program for proposed building refurbishment / construction, delivery and commissioning; and
- prepare all necessary documentation and provide presentations to WorldVeg Executive and other stakeholders as required.

5. WORLDVEG'S RESPONSIBILITIES

- WorldVeg will organize a site visit for all bidders.
- WorldVeg will provide additional detailed site information to all bidders, if there are such requests from the bidders.
- Depending on situations, WorldVeg may organize meetings with relevant staff members when needed.

6. PAYMENT MODALITY

Two lump-sum payments at the acceptance of a draft design proposal (30%) and a final design proposal (70%). No reimbursable costs are included.

Depending on funding, the consultant may be required to assist with the selection of a contractor to realize the design, and when the construction contract is finalized, the consultant may be offered with an extension contract to supervise the works until completion and commissioning.

7. DELIVERABLES AND CONCRETE TIMELINES

No	Deliverable / Expected output	Due by
1.	A draft design accepted by WorldVeg	15 July 2023
2.	A final design accepted by WorldVeg	31 October 2023

Both draft and final design proposals should contain the following:

- Team and performance history
- Site survey, observation and analysis
- Architectural design (concept, floor/site plan, aerial/perspective views, elevation, section, landscape, facilities)
- Construction design (structural system. E/P/FS system, HVAC system)
- Environment-friendly sustainability and accessibility design
- Construction schedule
- Construction budget
- Architectural model
- 2-minute video of the new building

8. REPORTING LINE, LOCATION AND DURATION OF THE CONSULTANCY

- The consultant will report to Yedda Palemeq, RIM-Project Manager and Head-Procurement Services.
- The location of performance is at HQ.
- The duration of this consultancy until the acceptance of a final design is 4 months from 1 July 2023 until 31 October 2023.

9. FACILITIES AND SUPPORT PROVIDED BY WORLDVEG

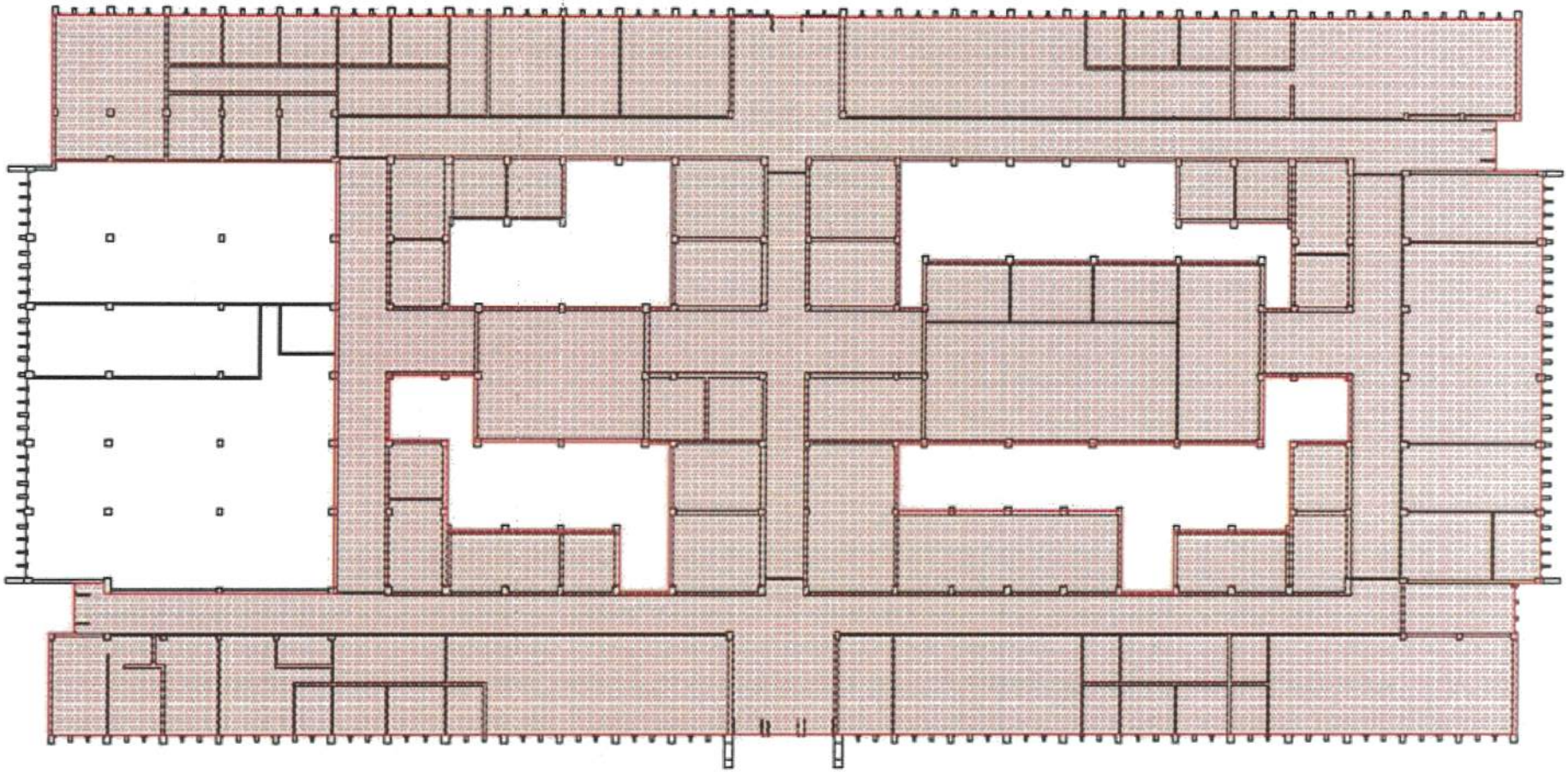
None.

10. QUALIFICATIONS AND REQUIREMENTS *(select or add as appropriate)*

- The successful bidder/firm (i.e. the consultant) will have demonstrated ability in providing creative and interesting architectural solutions and will also have experience in the design of successful exhibition, gallery spaces, show-rooms or related facilities.
- Also see PR 1063543 Request for proposals.

World Vegetable Center

Attachment: Old Lab Building Area



Total area of the old Lab Building

2826.38m2