

MALAYSIA'S FIRST AND LARGEST SUSTAINABLE AGRO FARM



"making a difference"



Food Security. Sustainability. Eco-friendly.

Today, agriculture is all about growing more with less – less land, less labour, less pollution, etc.

By combining innovative technology and Good Agriculture Practices (GAP), we can grow more crops and improve livelihoods while preserving Mother Nature.

Koperasi Atlet Malaysia Berhad and IRIS Corporation Berhad are leading the way by jointly developing the model of a truly communal and sustainable agro farm.

This project is set to make Malaysia's agro food sector a competitive entity and significant contributor to national income.

AGRICULTURAL
TRANSFORMATION **TRADITIONAL FARMERS**
NOW AGRO-SPECIALISTS

PROJECT OVERVIEW

Located on 100 acres in Tanjung Tualang, a small town in the major tin-mining Kinta district, known as Kinta Valley in Perak, an ambitious sustainable agriculture project is underway.

With marginal land leased from the State Agriculture Development Corporation of Perak, Koperasi Atlet Malaysia Berhad and IRIS Corporation Berhad are mobilising compassion, innovation and creativity to build a profitable yet eco-efficient, sustainable agro enterprise.



This first-of-its-kind project is expected to

- create a sustainable agro farming community
- combine modern farming technology with Good Agriculture Practices
- provide jobs for approximately 200 to 300 locals with priority to former athletes, single mothers and those with special needs
- yield high value, premium crops such as Golden Melon, Cherry Tomato, Japanese Cucumber, Eggplant, Okra, Habanero etc.
- boost eco-agro tourism

In line with the Tenth Malaysia Plan and the Prime Minister's New Economic Model, this project aims to

- revitalise the agriculture sector with new technology
- transform agriculture into a dynamic and competitive sector
- achieve higher levels of productivity and efficiency
- produce agro-specialists who are equipped with new skills that enable them to be better cultivators and eco stewards while meeting growing demand and reaping profits
- transform Malaysia into a net exporter of food

ULTRA M FARM FACILITIES



GREENHOUSES

- Protect crops from severe weather
- Transmit the sun's nurturing rays
- Keeps pests away from crops, greatly reducing the need for pesticide applications

COLD ROOM

- Specially designed energy efficient, walk-in cold rooms that maintain optimum storage temperature for transition/temporary storage of produce
- Preserve freshness and extend storage life of produce in transition post packaging to export markets abroad

FRUIT PROCESSING AUTOMATION

- High volume fruit processing via special-purpose automated conveyors
- Help speed up time to market by reducing labour costs and increase profits
- Complimented by comfortable spacious collection and sorting areas
- Greatly enhance operations by improving speed and efficiency while maintaining sanitary conditions



MODERN S & AMENITIES



COMMUNAL AMENITIES

- Modern, eco-efficient green buildings as accommodations for agro-specialists and their dependents
- Exceptionally pleasant environments for work and leisure
- Modern day comforts such as cafeteria, rest lounges, recreational facilities
- Contemporary offices, places of worship, childcare

ECO-AGRO TOURISM BOOST

- Attractive recreational facilities and activities are incorporated into this purpose-built farm to exploit the potentials of eco-agro tourism by attracting visitors to the Malaysia's first and largest Agro Farm
- Future plans include a Visitors' Centre, Restaurant/ Cafe and various recreational amenities

SOLAR ARRAYS

- The agro farm's electricity needs will be powered by the sun's rays

WASTE-TO-ENERGY CAPABILITIES

- Digester for converting crop waste into compost material
- Green Gas Incinerator for converting municipal waste into energy

WATER NEEDS

- Harvested and treated rainwater for fertigation of crops





AUTOPOT SYSTEMS

This is a brilliantly designed container growing system to revolutionise conventional ways of irrigation and fertilisation. Key to AutoPot Systems' composition and success is the SmartValve which automatically waters and feeds plants on demand; without the need for expensive pumps, complicated timers or electricity supply.

As an eco-friendly fertigation system, AutoPot Systems allows sustainable and consistent fruit and vegetable cultivation. Additionally, the fact that AutoPot Systems require no media for cultivation means crops are not exposed to soil borne diseases.

DISTINCT ADVANTAGES

WATERING	Prevents over watering and under watering No water wastage as plants/crops feed on demand Efficient use of harvested and treated rainwater
FEEDING	Prevents over feeding and under feeding No nutrient wastage as plants/crops feed on demand
ZERO RUNOFF	Eco-friendly and non-polluting
FLEXIBILITY	Can be used anywhere from marginal land to building rooftops
EASE OF USE	No need for expensive pump and complicated timers It works by gravitational pull to dispense water and nutrient
CONSISTENCY	Crop yields and quality are consistent and of premium grade



PROJECT REFERENCES

IRIS, with its proven track record in managing large scale projects around the world, is the technology provider and contractor for this turnkey project. IRIS will provide a comprehensive solution from the design to construction and subsequent management of the agro farm operations.

IRIS' success with large scale commercial agro farming include local and foreign projects.



In the **REPUBLIC OF MALDIVES**, this form of agro farming has benefitted several local community islands, as part of the Post-Tsunami Livelihoods Restoration Project. The islanders, whose income levels have increased five to ten fold, grow high-value fruit to supply numerous exclusive resorts.

The project is under the purview of the Maldivian Ministry of Fisheries, Agriculture and Marine Resources and has been recognised by the United Nations Development Programme (UNDP).

In **KAMPUNG ENDAH, MORIB, SELANGOR**, IRIS' 5-acre model agro farm produces premium quality Golden Melons farm yielding an average of 3 tonnes per week of which 70% is exported to Singapore.



PROJECT OWNERS

The Sustainable Agro Community project was initiated by Yayasan Kebajikan Atlet Kebangsaan (YAKEB) through Koperasi Atlet Malaysia Berhad (KAMB) with cooperation of IRIS Corporation Berhad.



KOPERASI ATLET MALAYSIA BERHAD

ABOUT KOPERASI ATLET MALAYSIA BERHAD

KAMB is the business and investment arm of YAKEB or National Athlete's Charity Foundation whose principal task is to manage the welfare of Malaysia's athletes.

Registered on 28 August 2009, KAMB's primary responsibility is to generate and enhance funds for YAKEB and also to elevate socio economic levels of its members through profit-centred business and entrepreneurial activities.



ABOUT IRIS CORPORATION BERHAD

IRIS Corporation Berhad has undertaken to construct and manage this mega scale project as a turnkey project.

Upon completion, this project will be the country's single largest sustainable greenhouse farm and the only one of its kind optimising renewable resources enabled by eco-friendly and eco-efficient innovations and methods.

Founded in 1994, IRIS Corporation Berhad (ACE Market: IRIS) is a MSC-status technology innovator and leading provider of solutions and advancements for trusted identity (electronic identity documents), transportation and logistics, business communication and security, agriculture as well as renewable energy. From its headquarters in Kuala Lumpur, Malaysia, IRIS serves governments and businesses all over the world with a myriad of practical yet affordable innovations and solutions. For more information about IRIS, please visit the company's website at <http://www.iris.com.my>.

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