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**Universiti
Putra
Malaysia**



**Title:
Introduction to
Sultan Idris Shah Forestry Education Center
(SISFEC)**

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WELCOME TO

SISFEC

SULTAN IDRIS SHAH FORESTRY EDUCATION CENTER

“EDUCATION AND RESEARCH FOREST”



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Officiating Ceremony of SISFEC

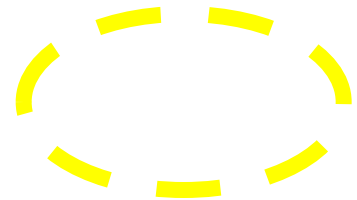


Ayer Hitam Forest Reserve – History and Development



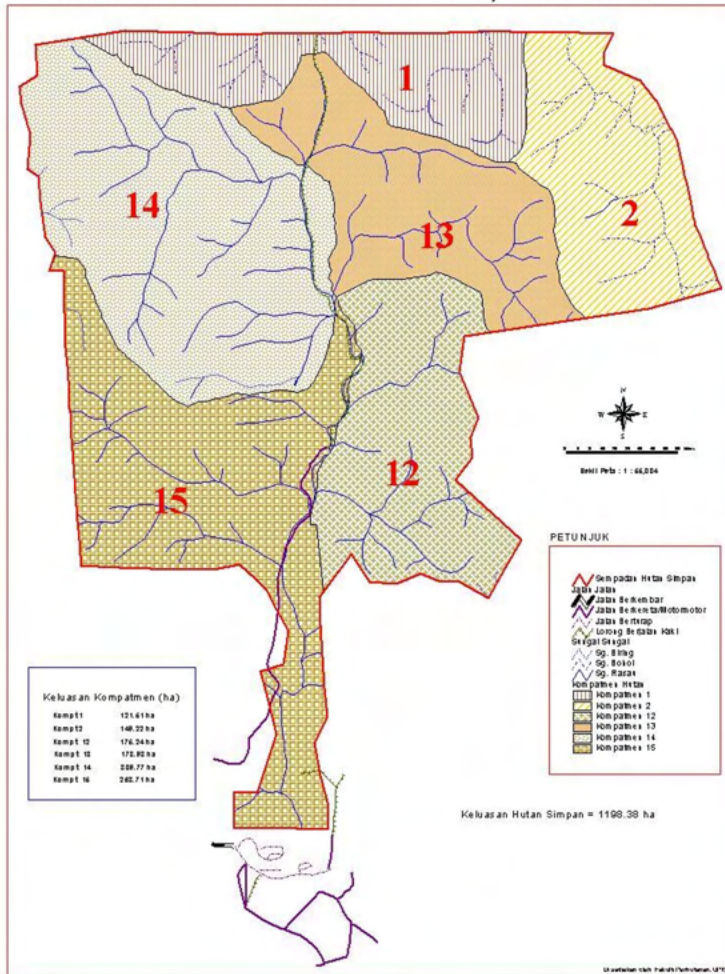
- Permanent Forest Reserve -
Gazetted: in 1906
- AHFR under jurisdiction of
Selangor State Forestry
Department
- Original area: 4270.7 ha (22
compartments)
- Lowland dipterocarp forest
- Second growth forest, logged in
1960's
- Leased to UPM: 99 years (1996-
2095) (Oct 7, 1996)
- **Research, Education & Extension**
- Classified as Education and
Research Forest in Jan 2009
- Total area 2011: 1182.07 ha. (6
Compartments)
- **SISFEC - 21 March 2012**

SISFEC
1182.07 ha



Significance of SISFEC

PETA KOMPATMEN HUTAN SIMPAN AYER HITAM, SELANGOR D.E.



Education, research and extension for UPM

Refugia for plants and animals

Largest in-situ conservation effort in Klang Valley at 1182.07 ha

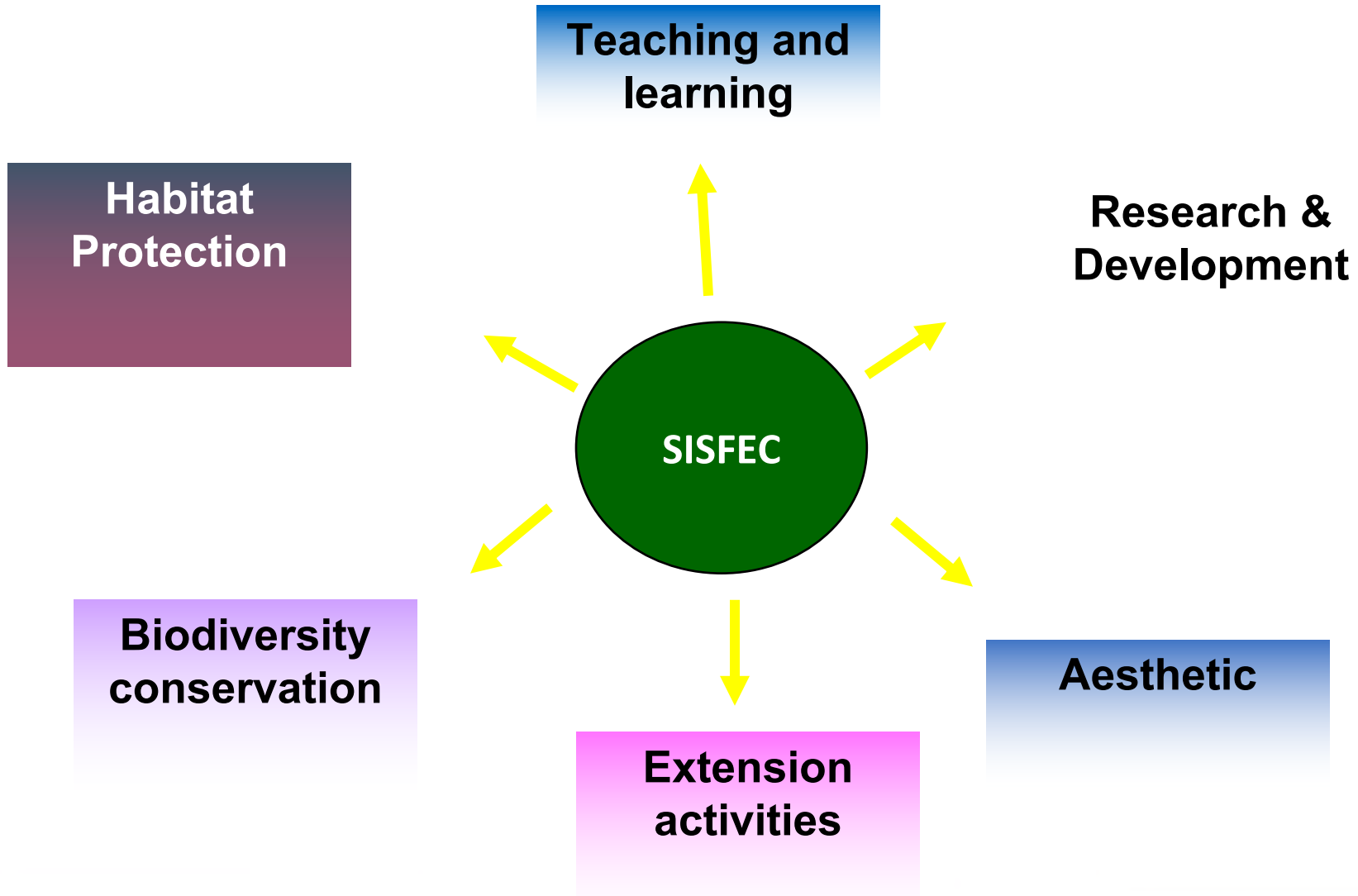
Local flood mitigation

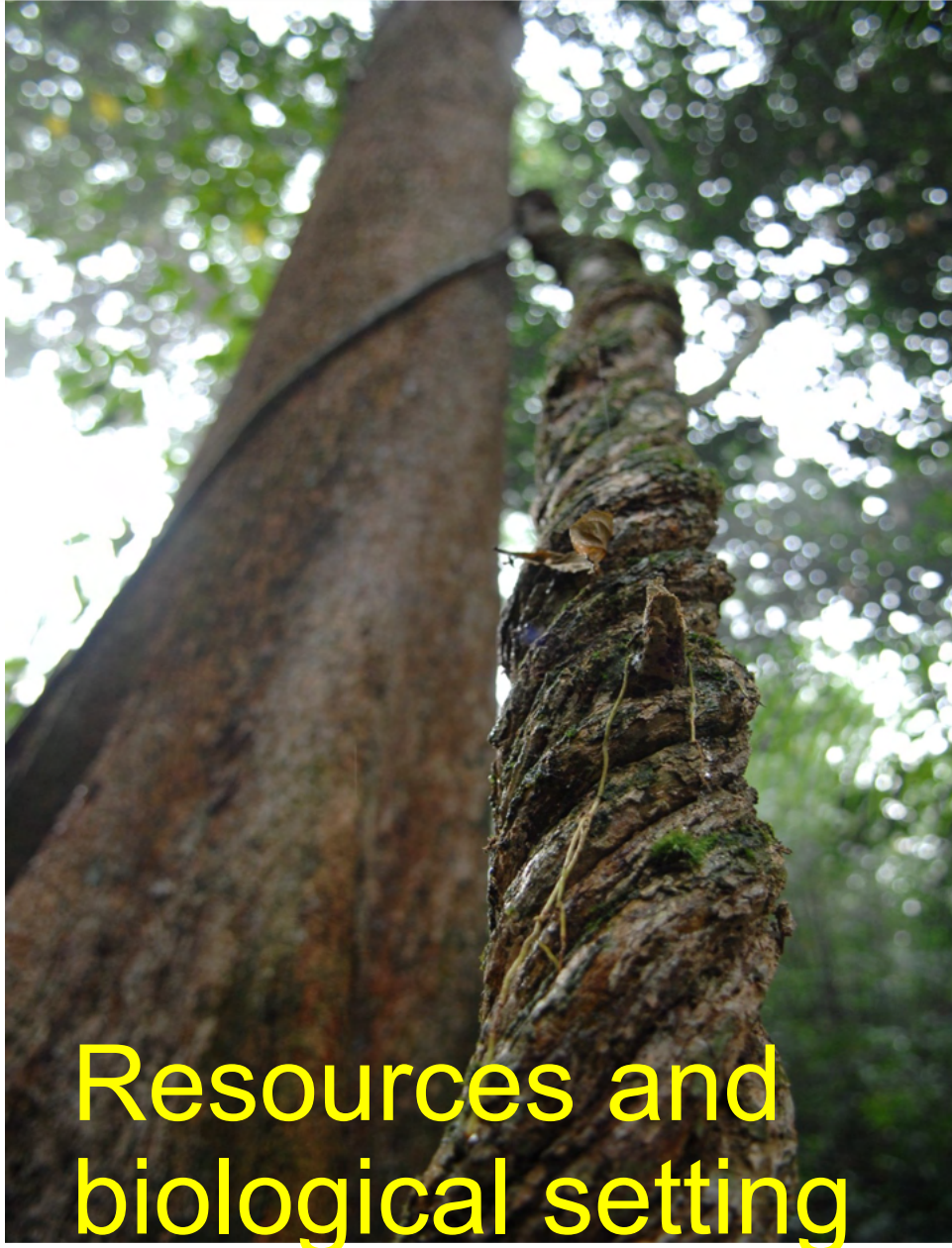
Public education on environment

Largest carbon sequester in Klang Valley



Current Use of SISFEC





Resources and biological setting

- Forest subtype: Kelat-Kedondong-Mixed Dipterocarp
- Elevation: 15 to 233 m asl
- Highest peak: Permatang Kuang Hill
- Rugged and hilly landscape, slope 10-20%
- Igneous rock - granite; metamorphic content & secondary minerals
- Stand structure: 5 major components: emergent, canopy, understorey, pioneer and late-serial species
- Soil Profiles: Serdang-Bungor, Serdang-Kedah series



FLORA

- 430 species of seeds plants
- 33 species of ferns *
- 127 timber species *
- 29 species of fruit trees *
- 121 Herbaceous plants *
- 4 species of bamboos *
- 13 species of palms *
- 8 species of mosses

- 6 tree species - endemic for Peninsular Malaysia ¹
- 5 species of medicinal plants - endemic for Peninsular Malaysia ²





FAUNA

- 208 species of birds *
- 5 species of primates *
- 14 species of small mammals *
- 3 species of bats *
- 2 species of reptiles *
- 13 species of frogs *
- 10 species of fishes *
- Hundreds of insects
- Termites



Role of SISFEC

- Dedicated to teaching & learning about forests, nature and environment
- Mandate for research, education, protection, management, community needs,
- Operates under the Dean of Faculty of Forestry, UPM
- Administered by the Head, Natural Forest and Plantation Section



Research Activity



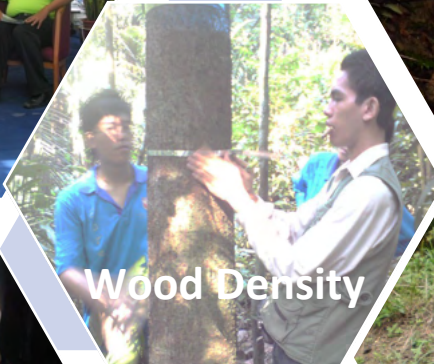
Soil Sampling



Camera Trap



Scientific Expedition



Wood Density



Frogging



Wildlife Ecology



Bat Identification



Soil Characteristic

Teaching and Education



Forest Extension Program



Program with Industries and Communities



Program Eksplorasi Alam Bersama Jabatan Pendidikan Tinggi



BrainyBunch International Montessori



A Day With Rohingya

Pendidikan Perhutanan bersama Komuniti MPSJ



Murid Program Pendidikan Khas Intergrasi

Tree Planting & Team Building Program





Jungle Trekking and Water Confident Module

International Visitor



- Leeds University
- Mie University, Japan
- Shinshu University, Japan
- University of Kazakhstan
- Indian Institute of Forest Management
- Kunming University Korea
- Thaksin University Thailand
- Institut Teknologi Bandung
- Beijing Forestry University
- Kunming University of Science and Technology, China
- Kanagawa Institute of Technology, Japan
- Tripoli University, Libya
- Kochi University, Japan
- Kasersart University, Thailand
- Institut Pertanian Bogor, Indonesia
- Tunghai University, Taiwan



Infrastructure and Facilities

- Complex SISFEC
- Base camp :
 - Camp site
 - Hall
 - VIP, students' washroom
- Accommodation
 - Dormitory
 - Seminar room
- Internet and Wi-Fi
- Plant Nursery

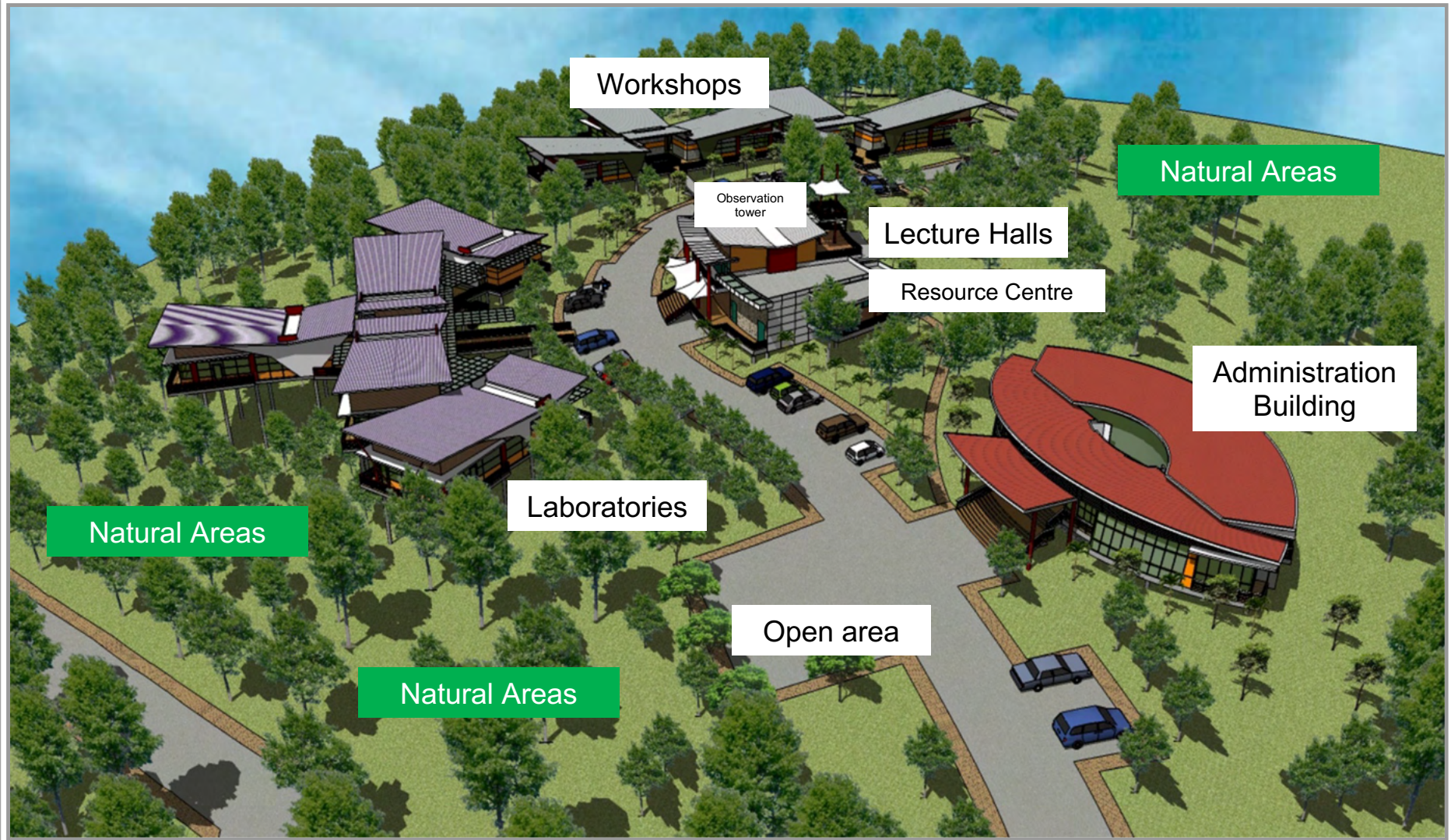


Complex SISFEC

- ❑ 4 building with administrative office, lecture halls, seminar room and 10 laboratories.
- ❑ Each hall and seminar room can accommodate up to 60 persons at one time



COMPLEX SISFEC



KOMPLEKS SISFEC – A & B



BLOK A – ADMINISTRATION

- ❑ Area - 388.5 m²
- ❑ 6 officer room
- ❑ Washroom
- ❑ Prayer room

BLOK B – LECTURE HALL

- ❑ Area - 966 m²
- ❑ lecture hall 1 & 2
- ❑ Seminar room
- ❑ Tower View



KOMPLEKS SISFEC – C & D

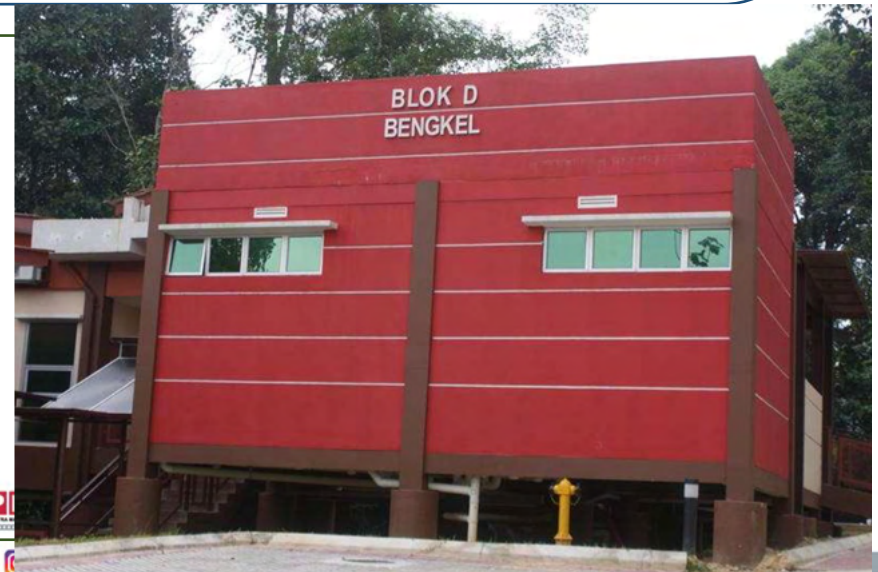


BLOK C - LABORATORY

- ❑ Area - 923.5 m²
- ❑ Makmal Pentadbiran Taman
- ❑ Bilik Tutor
- ❑ Makmal Perancangan Taman
- ❑ Makmal Intepretasi
- ❑ Makmal Ekologi Rekreasi

BLOK D - BENGKEL

- ❑ Area - 792.4 m²
- ❑ Makmal Rekreasi Hidupan Liar
- ❑ Makmal Perniagaan Rekreasi
- ❑ Makmal Teknologi Maklumat
- ❑ Makmal Operasi dan Penyelenggaraan
- ❑ Makmal Rekreasi Luar



Campsite

- ❑ Can accommodate up to 150 pax at one time
- ❑ Hall, washroom, field
- ❑ Activities such as team building, camping, etc.



Detail Information

Capacity : 100 participants

Area : 100 m x 100m = 10,000 m²
= 1 ha

Facilities & Amenities:

- Campsites
- Hall
- Field Sports
- Clean Restrooms
- Wireless Internet
- Kitchen Facilities



Accommodation



- ❑ 3 dormitories, 2 chalets, seminar room, prayer room and dining room
- ❑ Can accommodate up to 54 persons at one time
- ❑ Conduct activity such as seminar, presentation, meeting, team building, workshop, lecture and practical class



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Detail Information

AREA

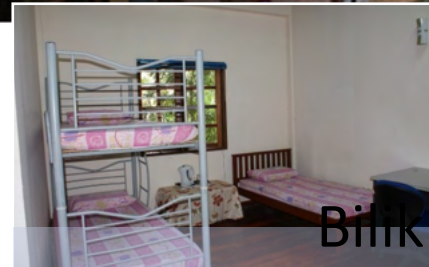
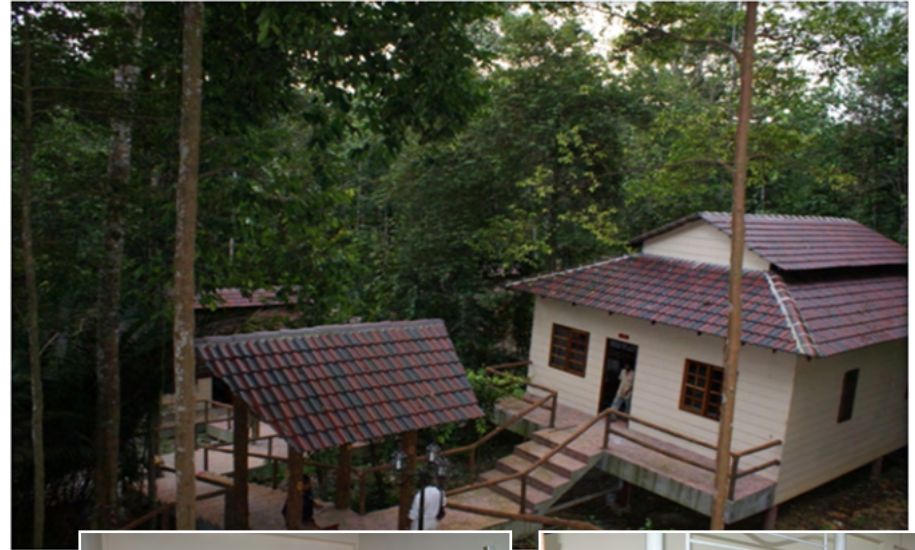
| | |
|--------------|-------------------------------|
| Seminar Hall | - 196 m ² |
| Dormitories | - 353.28 m ² |
| Room | - 115.2 m ² |
| Total | - 664.48 m² |

ROOM'S NAME

1. Manau (seminar hall)
2. Bayas
3. Palas (dormitory)
4. Kelubi (dormitory)
5. Bertam (dormitory)
6. Nibong (room)
7. Enau (room)

CAPACITIES

| | |
|---------------------------|--------------|
| Seminar Hall | - 56 orang |
| Dormitories | - 48 orang @ |
| 16 orang/dormitori | |
| Bilik pegawai/fasilitator | - 8 orang |



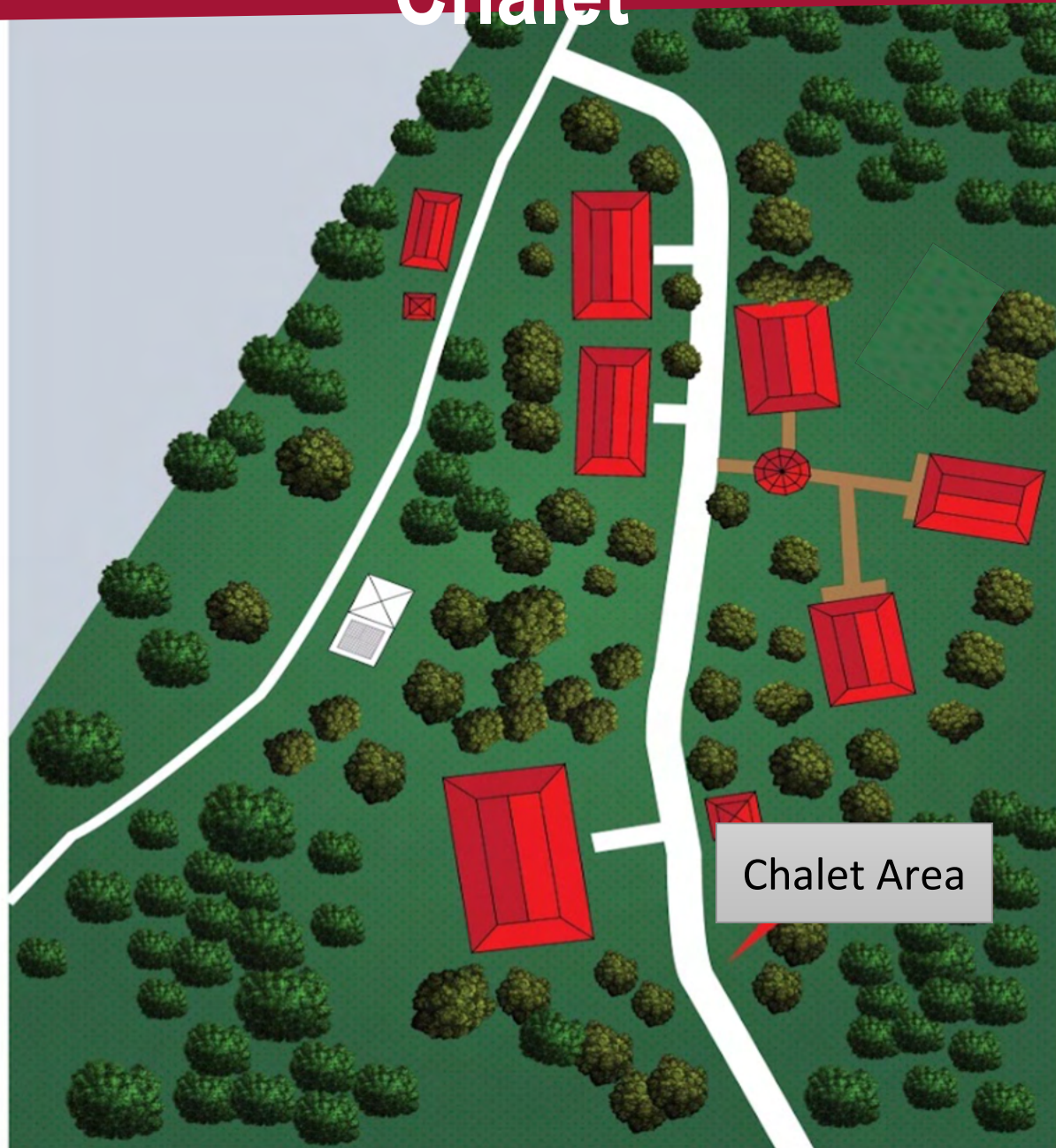
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Chalet



Chalet Area





Plant Nursery



- To supply saplings for planting program.
- Can accommodate up to 5,000 saplings and 5,000 mature tree
- Equipped with water sprinkler and soil mixture machine



SISFEC Today: What we do

- Over 100 research projects to date 
- 3 special issues of Pertanika Journal, books 
- More than 5,000 users in 2019 
- Annual forest camp for forestry students, training courses, educational visits, environmental camps 
- Vibrant part of local communities, linked to other institutions such as Subang Jaya Municipal Council, Exxon Mobil, schools, faculties, UPM staff, government agencies, public universities students, private colleges 



SISFEC Tomorrow: Where we're going

- ❑ Optimum use of SISFEC for teaching and learning
- ❑ Stronger linkages with international universities
- ❑ Integrated research
- ❑ Services expanded to industries and communities
- ❑ Emphasis on conservation and protection
- ❑ Model forest for Education and Research
- ❑ “Tropical Forest Education Centre”



*SISFEC aspires to turn Ayer Hitam Forest Reserve
as an international forestry education centre*



Potential R&D

- ❑ Forest structure
- ❑ Biodiversity (flora and fauna)
- ❑ Carbon stock
- ❑ Sampling and inventory
- ❑ Ecological studies and modelling
- ❑ Social impact analysis
- ❑ Environmental studies
- ❑ Environmental Education and Forest Recreation
- ❑ Natural products
- ❑ Wildlife Ecology


- ❑ Microclimate
- ❑ Soil analysis
- ❑ Pollination
- ❑ Growth and yield
- ❑ Forest landscape evaluation
- ❑ Natural products
- ❑ GIS
- ❑ Non-timber forest products
- ❑ Water quality
- ❑ Forest and pollution
- ❑ Forest and health






Thank You / Terima Kasih

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