

Riau Biosphere Reserve Project

Organization cooperated

Management & Operation: Sinar mas, Dept of Forestry, Government of Riau Prov.

Research: LIPI potentially with G-COE Initiative 3 (Kyoto University)

Field

Riau bio-sphere reserve (ca. 700,000 ha)

1. Preservation zone as wild life reserve: Two national parks (85,000+21,000 ha)
+ 72,000 ha (Sinar mas concession)
2. Buffer zone: Plantation of *Acacia classicarpa* and *Eucaliputas perita* (200,000 ha)
3. Transition zone: Agriculture, Oil palm plantation, Paddy field (300,000 ha)

Being applied to the UNESCO Wild Life Reserve

by Sinar mas, LIPI and Dept of Forestry

1. Ecohydrological to protect life support system,
2. Research and education of peat swamp forest resources
3. Nature and culture tourism
in connection with REDD program (Reduced emission from degradation and deforestation)

Research Proposals from Kyoto Univ. and LIPI

1. Collaborative natural resource management between local community and timber plantation (Equitable partnerships between corporate and small-holder partners in timber plantation industry)
2. Dynamic evaluation of forest biomass in plantation forest using ground-based and satellite remote sensing data
3. Case study on biofuel production: from pulp to bioethanol
4. Water/carbon cycle and soil moisture control, hydrological mapping, weather observation in the peat swamp
5. Biodiversity observation of Riau biosphere reserve
6. Atmospheric observation by EAR

Funding

1. Man Power: LIPI, Kyoto University
2. Travel Allowance
International: Kyoto University
Domestic transportation, accommodation; Sinar mas
3. Research funds for Materials, Devices and software
LIPI, Kyoto University: Sinar mas = 30:70 – 50:50 or ?

Additional Program Proposal from LIPI

LIPI-Kyoto University Educational Program (Ronpak system)

Based on the MOU between Kyoto Univ. and LIPI

1. being funded by LIPI
2. LIPI staff (2-3 person /year) being sent to Kyoto Univ for 2-3 months/year.
3. Research projects based on the field research in Indonesia.
For an example, Riau biosphere Reserve Project
4. Being supervised by Kyoto Univerity and LIPI Profs
5. Submit research papers to journals
6. Apply to Dr. degree of Kyoto University

