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## KANDUNGAN

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Rangkaian Sistem Maklumat Baja  
Di Rantau Asia dan Pasifik: Satu  
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## Fokus

### RANGKAIAN SISTEM MAKLUMAT BAJA DI RANTAU ASIA DAN PASIFIK: SATU PENGENALAN

Hawa Abdul Majid  
Perpustakaan  
Universiti Pertanian Malaysia

### Pendahuluan

Usaha gigih yang dipelopori oleh pihak ESCAP/FAO/UNIDO Fertilizer Advisory, Development and Information Network for Asia and the Pacific (FADINAP) dalam menggalakkan konsep berkongsi maklumat di dalam sektor baja telah mewujudkan 'Rangkaian Sistem Maklumat Baja' (Network of Fertilizer Information Systems i.e. NFIS). Unit Maklumat/Dokumentasi FADINAP di Bangkok, Thailand telah dilantik sebagai pusat penyelarasan NFIS.

NFIS telah dilancarkan dengan rasminya pada tahun 1985

setelah satu perundingan serantau tentang pengendalian maklumat baja berkomputer (Regional Consultation on Computerized Fertilizer Information Handling) diadakan di Bangkok. Mesyuarat tersebut telah dihadiri oleh perwakilan dari Filipina, India, Malaysia, Nepal, Republik Korea, Singapura, Sri Lanka, Thailand dan juga dari organisasi serantau dan antarabangsa yang terlibat dengan perkhidmatan maklumat dan dokumentasi di bidang baja. Di antara cadangan-cadangan yang dipersetujui di perundingan tersebut ialah: tentang peranan/tugas pusat penyelarasan dan negara-negara peserta di dalam rangkaian ini; pusat penyelarasan harus mengeluarkan tisausur untuk istilah-istilah baja apabila perlu; pusat penyelarasan harus memperolehi komputer untuk negara-negara peserta dan ditekankan juga perlunya perhubungan di antara pusat penyelarasan dan negara-negara peserta diadakan selalu.

### Matlamat NFIS

Secara umumnya NFIS bermatlamat untuk melengkapkan dan mempercepatkan aliran maklumat berhubung dengan baja di rantau Asia dan Pasifik dan khususnya ialah untuk membantu dalam memperkembangkan pusat maklumat baja peringkat kebangsaan dan menubuhkan pengkalan data yang diperlukan.

### Bidang perkara yang diliputi (Subject coverage)

Pada masa ini bidang perkara yang diliputi dalam NFIS ialah tentang baja dan bahan-bahan kimia pertanian yang lain. Dicadangkan juga bahawa kemasukan rekod tentang bahan-bahan kimia pertanian ke pengkalan data NFIS, menjadi tanggung jawab pusat penyelarasan.

Dalam konteks kerjasama dengan Pusat Penyelarasan Kebangsaan AGRIS, perlu ditingkatkan bahawa AGRIS dalam keadaan tertentu tidak meliputi bidang perkara secara lengkap yang dianjurkan oleh FADINAP. Ini benar terutama dalam bidang berbentuk 'non-research' seperti teknologi, pembuatan dan pengembangan. Dalam aspek ini penumpuan harus dibuat terhadap bidang perkara yang tidak diliputi oleh AGRIS supaya penduaan tidak berlaku. Oleh itu penting bagi pengguna untuk mengenalpasti apakah jenis maklumat yang benar-benar diperlukannya. Bidang-bidang perkara yang diliputi oleh

MPM ialah sebuah buletin suku tahunan yang diterbitkan oleh Perpustakaan Universiti Pertanian Malaysia. Pandangan dan pendapat penyumbang tidak semestinya mencerminkan pandangan atau pendapat jemaah pengarang. Buletin ini diberi secara percuma atas permintaan. Sila alamatkan semua surat menyurat/pertanyaan kepada: Ketua Pengarang, Buletin Maklumat Pertanian Malaysia, Perpustakaan, Universiti Pertanian Malaysia, 43400 UPM, Serdang, Selangor.  
Penasihat: Syed Salim Agha; Ketua Pengarang: Mohd. Ariff Arifin  
Pengarang-pengarang: Badilah Saad; Hawa Abdul Majid; Asliah Abu; Hafizah Hassan  
Penyunting: Jama'yah Zakaria

Training Workshop on Fertilizer Information Transfer, 3-7 November, 1986, FADINAP, 1986.

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**PENERBIT UNIVERSITI  
PERTANIAN MALAYSIA  
43400 UPM Serdang, Selangor**

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NFIS ialah pertanian (am), ekonomi (am), pengedaran baja, ekonomi baja, industri baja, pengurusan baja, penyelidikan dan pembangunan baja, perdagangan baja, baja organik, kawalan perosak, pemakanan tanah dan tumbuhan, latihan dan lain-lain (termasuk maklumat dan dokumentasi).

### Struktur organisasi

Ada 2 bahagian dalam struktur organisasi NFIS iaitu:-

i) Pusat Penyelarasan NFIS

Unit Maklumat/Dokumentasi FADINAP di Bangkok diberi mandat menjalankan peranannya sebagai pusat penyelarasan. Pusat ini bertanggungjawab memperkembangkan keupayaan negara-negara peserta dalam mengendalikan sistem maklumat baja; menyediakan piawaian teknikal dalam menghantar input; memperkembangkan hasil-hasil (products) yang dapat diperolehi dalam penyebaran maklumat tentang baja dan mengedarkannya kepada negara peserta.

ii) Pusat Kebangsaan Negara-Negara Peserta

Negara-negara peserta pula bertanggungjawab mengenalpasti semua jenis bahan tentang baja, sama ada yang telah diterbitkan(dibukukan) atau belum diterbitkan seperti buku, laporan penyelidikan, kertas kerja, laporan mesyuarat, artikel daripada jurnal, bahan berita dan lain-lain, serta menyediakan bahan-bahan tersebut dengan abstrak ringkas berserta dengan dokumennya ke pusat penyelarasan jika perlu; menghantar ke pusat penyelarasan satu naskhah senarai bahan-bahan yang baru diperolehi dan berita ringkas tentang peristiwa-peristiwa yang berkaitan dengan sektor baja; Membekalkan salinanfoto untuk bahan-bahan apabila diperlukan oleh NFIS.

### Perkembangan NFIS

Memandangkan usia yang terlalu muda (baru dalam peringkat penubuhan) FADINAP/NFIS telah mengadakan perjumpaan sebanyak dua kali iaitu Perundingan 1985 (di mana NFIS telah dilancarkan secara rasmi) dan pada bulan November 1986, satu latihan/kursus untuk negara-negara peserta telah diadakan iaitu 'Regional Training Workshop on Fertilizer Information Transfer'.

Tujuan kursus tersebut ialah untuk memperkenalkan kepada negara peserta dengan cara-cara menyediakan kertas input; mengindeks; membuat abstrak dan menganalisis dokumen. Para peserta telah diberitahu tentang peranan/fungsi FADINAP/NFIS dan juga negara-negara peserta.

Buat masa ini NFIS telah mengeluarkan satu jurnal abstrak (bulanan) iaitu RISS (Regional Information Support Service) yang mengandungi rekod bibliografi daripada negara peserta. 'Agro-Chemicals News in Brief' mengandungi satu ruang yang bernama 'NFIS Corner' yang dimuatkan dengan sumbangan-sumbangan berbentuk berita. Maklumat lain juga dimuatkan di dalam lain-lain penerbitan seperti 'Calendar of Meetings on Agro-Chemicals' dan 'Fertilizer Trade Information Bulletin'. Surat berita yang khusus untuk memuatkan kegiatan NFIS sahaja, mungkin dapat diterbitkan apabila NFIS telah mula kukuh.

FADINAP juga telah menerbitkan 'Directory of Sources of Fertilizer-Related Information With Special Reference to Asia and the Pacific'. Ia bertujuan untuk memandu negara peserta dalam mengesan sumber yang tersedia ada di dalam dan di luar rantau Asia dan Pasifik. Buku panduan ini boleh didapati dalam bentuk bercetak dan 'machine-readable'. Dalam tahun 1987 ini NFIS bercadang untuk mengeluarkan satu penerbitan yang mengandungi maklumat tentang projek-projek yang berkaitan dengan baja yang dijalankan di negara-negara peserta untuk tempoh di antara 1980 hingga 1985.

### Penglibatan Malaysia dalam NFIS

Malaysia telah menghantar seorang perwakilan ke Perundingan 1985 dan 2 orang wakil Malaysia pula telah menghadiri 'Regional Training Workshop on Fertilizer Information Transfer' pada bulan November 1986.

Satu kajian telah dijalankan oleh seorang pakar perunding FADINAP untuk mencari sebuah institusi yang paling sesuai untuk menjalankan peranan/tugas negara peserta dalam rangkaian NFIS di Malaysia ini. Beberapa institusi telah dilawati seperti Jabatan Pertanian, Kuala Lumpur, Kementerian Pertanian Malaysia, MARDI, Jabatan Sains Tanah, UPM dan tidak ketinggalan Perpustakaan UPM. Beberapa faktor penting seperti keupayaan dari segi kelengkapan alat, kakitangan dan ruang telah diambil kira. Yang paling penting ialah untuk mencari institusi mana yang paling bersedia dan sukarela menjalankan tugas-tugas tersebut dan ia dapat diterima oleh semua pihak. Buat sementara waktu Perpustakaan UPM dilantik menjalankan tugasnya sebagai pusat 'input' untuk Malaysia, sehingga sebuah institusi lain bersedia mengambil alih.

Dengan menyertai sistem NFIS ini, negara-negara peserta secara automatik mendapat akses kepada maklumat yang penting dan berguna daripada negara-negara lain di samping dapat mengawal sumber-sumber maklumat negara sendiri.

### Rujukan

1. FADINAP/NFIS National Participating Centres: their functions. N. W. Posnett. Regional

<b>H</b>	<b>PERLINDUNGAN TUMBUHAN (PLANT PROTECTION)</b>	<b>L02</b>	- Makanan ternakan (Animal feeding)
<b>H01</b>	- Perlindungan tumbuhan - Aspek am (Protection of plants - General aspects)	<b>L10</b>	- Genetik dan pembiakbaikan ternakan (Animal genetics and breeding)
<b>H10</b>	- Perosak tumbuhan (Pests of plants)	<b>L20</b>	- Ekologi haiwan (Animal ecology)
<b>H20</b>	- Penyakit tumbuhan (Plant Diseases)	<b>L40</b>	- Struktur haiwan (Animal structure)
<b>H50</b>	- Pelbagai penyakit tumbuhan (Miscellaneous plant disorders)	<b>L50</b>	- Fisiologi dan biokimia haiwan (Animal physiology and biochemistry)
<b>H60</b>	- Rumpai dan pengawalan rumpai (Weeds and weed control)	<b>L51</b>	- Fisiologi haiwan - Pemakanan (animal physiology - Nutrition)
<b>J</b>	<b>TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/ TUAI POSTHARVEST TECHNOLOGY)</b>	<b>L52</b>	- Fisiologi haiwan - Pertumbuhan dan perkembangan (Animal physiology - Growth and development)
<b>J10</b>	- Pengawasan, pengangkutan, storan dan perlindungan, hasil pertanian (Handling, transport, storage and protection of agricultural products)	<b>L53</b>	- Fisiologi haiwan - Pengeluaran (Animal physiology - Reproduction)
<b>J11</b>	- Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan (Handling, transport, storage and protection of plant products)	<b>L60</b>	- Taksonomi dan geografi haiwan (Animal taxonomy and geography)
<b>J12</b>	- Pengawasan, pengangkutan, storan dan perlindungan hasil hutan (Handling, transport, storage and protection of forest products)	<b>L70</b>	- Sains Veterinar dan Kesihatan (Veterinary Science and Hygiene)
<b>J13</b>	- Pengawasan, pengangkutan, storan dan perlindungan hasil ternakan (Handling, transport, storage and protection of animal products)	<b>L72</b>	- Perosak haiwan (Pests of animals)
<b>J14</b>	- Pengawasan, pengangkutan, storan dan perlindungan perikanan dan hasil akuakultur (Handling, transport, storage and protection of fisheries and aquacultural products)	<b>L73</b>	- Penyakit-penyakit haiwan (Animal diseases)
<b>J15</b>	- Pengawasan, pengangkutan, storan dan perlindungan hasil pertanian yang bukan berbentuk makanan atau bahan makanan (Handling, transport, storage and protection of non-food or non-feed agricultural products)	<b>L74</b>	- Pelbagai penyakit haiwan (Miscellaneous animal disorders)
<b>K</b>	<b>PERHUTANAN (FORESTRY)</b>	<b>M</b>	<b>PERIKANAN DAN AKUAKULTUR (FISHERIES AND AQUACULTURE)</b>
<b>K01</b>	- Perhutanan -Aspek am (Forestry - General aspects)	<b>M01</b>	- Perikanan dan akuakultur - Aspek am (Fisheries and aquaculture - General aspects)
<b>K10</b>	- Pengeluaran perhutanan (Forestry Production)	<b>M11</b>	- Pengeluaran perikanan (Fisheries production)
<b>K11</b>	- Kejuruteraan hutan (Forest engineering)	<b>M12</b>	- Pengeluaran dan pengurusan akuakultur (Aquaculture production and management)
<b>K50</b>	- Pemprosesan hasil hutan (Processing of forest products)	<b>M40</b>	- Ekologi Akuatik (Aquatic Biology)
<b>K70</b>	- Kerosakan dan perlindungan hutan (Forest injuries and protection)	<b>N</b>	<b>JENTERA DAN KEJURUTERAAN PERTANIAN (AGRICULTURAL MACHINERY AND ENGINEERING)</b>
<b>L</b>	<b>SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN)</b>	<b>N01</b>	- Kejuruteraan pertanian (Agricultural engineering)
<b>L01</b>	- Peternakan (Animal husbandry)	<b>N02</b>	- Pertapakan ladang (Farm Layout)
		<b>N10</b>	- Struktur Pertanian (Agricultural structures)
		<b>N20</b>	- Jentera dan peralatan pertanian (Agricultural machinery and equipment)
		<b>P</b>	<b>SUMBER ALAM DAN SEKITARAN (NATURAL RESOURCES AND ENVIRONMENT)</b>
		<b>P01</b>	- Pemuliharaan alam dan sumber tanah (Nature conservation and land resources)

## BIBLIOGRAFI PERTANIAN MALAYSIA

Bibliografi ini mengandungi bahan-bahan terbitan mengenai pertanian Malaysia yang telah diindeks dari Mac 1986 - Mei 1986 oleh Pusat Kebangsaan AGRIS dengan kerjasama Perpustakaan Institut Penyelidikan Minyak Kelapa Sawit Malaysia, Perpustakaan Negara Malaysia dan Perpustakaan Institut Penyelidikan Getah Malaysia untuk keperluan AGRIS dan AGRISIA.

Format AGRIS telah digunakan untuk mengindeks dan penyusunan bibliografi ini dibuat mengikut Pengkelasan AGRIS seperti di bawah ini.

Kod	Perkara
<b>A</b>	<b>PERTANIAN AM (AGRICULTURE IN GENERAL)</b>
A01	- Pertanian-Aspek Am (Agriculture-General aspects)
A50	- Penyelidikan Pertanian (Research)
<b>B</b>	<b>GEOGRAFI DAN SEJARAH (GEOGRAPHY AND HISTORY)</b>
B10	- Geografi (Geography)
B50	- Sejarah (History)
<b>C</b>	<b>PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT (EDUCATION, EXTENSION AND INFORMATION)</b>
C10	- Pendidikan (Education)
C20	- Pengembangan (Extension)
C30	- Dokumentasi dan Maklumat (Documentation and Information)
<b>D</b>	<b>PENTADBIRAN DAN PERUNDANGAN (ADMINISTRATION AND LEGISLATION)</b>
D10	- Pentadbiran Awam (Public Administration)
D50	- Perundangan (Legislation)
<b>E</b>	<b>EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA (ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY)</b>
E10	- Ekonomi dan polisi pertanian (Agricultural economics and policies)
E11	- Ekonomi dan polisi tanah (Land economics and policies)
E12	- Buruh dan pekerjaan (Labour and employment)
E13	- Pelaburan, kewangan dan kredit (Investment, finance and credit)
E14	- Ekonomi dan polisi pembangunan (Development economics and policies)
E16	- Ekonomi pengeluaran (production economics)
E20	- Penyusunan, Pentadbiran dan Pengurusan Perusahaan Pertanian Atau ladang (Organization, administration and management of agricultural enterprises or farms)
E21	- Industri pertanian (Agro-industry)
E40	- Koperasi (Cooperatives)
E50	- Sosiologi desa (Rural Sociology)
E51	- Penduduk desa (Rural population)
E70	- Niaga, pemasaran dan edaran (Trade, marketing and distribution)
E71	- Niaga antarabangsa (International trade)
E72	- Niaga dalam negeri (Domestic trade)
E73	- Ekonomi pengguna (Consumer economics)
E80	- Ekonomi rumahtangga, industri dan kraf (Home economics, industries and crafts)
<b>F</b>	<b>SAINS TUMBUHAN DAN PENGELUARAN (PLANT SCIENCE AND PRODUCTION)</b>
F01	- Perusahaan tanaman (Crop husbandry)
F02	- Pembiakan tumbuhan (Plant propagation)
F03	- Pengeluaran bijibenh (Seed production)
F04	- Membaja (Fertilizing)
F06	- Pengairan (Irrigation)
F07	- Penyuburan tanah (Soil cultivation)
F08	- Corak dan sistem penanaman (Cropping patterns and systems)
F30	- Genetic dan pembiakbaikan tumbuhan (Plant genetics and breeding)
F40	- Ekologi Tumbuhan (Plant ecology)
F50	- Struktur tumbuhan (Plant structure)
F60	- Fisiologi dan biokimia tumbuhan (Plant physiology and biochemistry)
F61	- Fisiologi tumbuhan - Pemakanan (Plant physiology - Nutrition)
F62	- Fisiologi tumbuhan - Pertumbuhan dan perkembangan (Plant physiology - Growth and Development)
F63	- Fisiologi tumbuhan - Pengeluaran (Plant physiology - Reproduction)
F70	- Taksonomi dan geografi tumbuhan (Plant taxonomy and geography)

**C : PENDIDIKAN,  
PENGEMBANGAN  
DAN KHIDMAT NASIHAT**

C20: Pengembangan

MOHD. FUAD RAZALI. UPM Services to farmers and fishermen [Universiti Pertanian Malaysia]. Khidmat UPM kepada nelayan dan petani (Malay) ERA(Malaysia) ISSN 0127-7022 (22 Feb 1986) (no. 52) p. 10-11. Received Mar. 1986. *Extension activities; Universities; Malaysia.*

C30: Dokumentasi dan maklumat

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**D : PENTADBIRAN DAN  
PERUNDANGAN**

D50: Perundangan

ASEAN Plant Quarantine Centre and Training Institute, Serdang, Selangor (Malaysia). Treatment schedules [for seeds in ASEAN](En). *Planti News* (Malaysia). ISSN 0127-306x. (Aug 1985). v. 14(2) p. 16. Received Apr. 1986. *Seed treatment; Quarantine; ASEAN*

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**E : EKONOMI PEMBANGUNAN  
DAN SOSIOLOGI DESA**

E10: Ekonomi dan polisi pertanian

ABDUL AZIZ ABDUL RAHMAN (Universiti Pertanian Malaysia, Serdang, Selangor. Faculty of Resource Economics and Agribusiness). Key sectors of the West Malaysia. [Peninsular Malaysia].Economy, with emphasis on agriculture. (En). *Malaysian Journal of Agricultural Economics*. (Jun 1985). v. 2(1) p. 20-35. 3 tables; 12 ref. Summaries (En, Malay). Appendix. Received Mar. 1986. *Agricultural development; Agroindustrial sector; Peninsular Malaysia.*

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## H : PERLINDUNGAN TUMBUHAN

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**L01: Ternakan**

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**L02: Makanan ternakan.**

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**J : TEKNOLOGI LEPAS TUAI**

J11: Pengawasan pengangkutan storan dan perlindungan hasil pertanian

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SIONG, T.E. Nutritional anemias spectrum and



# Istilah Pertanian Pilihan

Bahasa Inggeris - Bahasa Malaysia

## A

acacia (Acacia auriculiformis)	-	akasia (Acacia auriculiformis)
acidic soil	-	tanah berasid
agricultural land	-	tanah pertanian
agro-based industry	-	industri berasas pertanian
agro-industrial waste	-	sisa industri pertanian
alfalfa (Medicago sativa)	-	alfalfa (Medicago sativa)
alluvium	-	aluvium
aloe (Aloe vera)	-	lidah buaya (Aloe vera)
Amaranthus caudatus	-	bayam selasih (Amaranthus caudatus)
ammonium fixation	-	pengikatan ammonium
anatto (Bixa orellana)	-	kesum (Bixa orellana)
ani	-	ani-ani/ketam
anion exchange	-	pertukaran anion
anise (Pimpinella anisum)	-	jintan manis (Pimpinella anisum)
annual crop	-	tanaman semusim/ setahun

antennal scale	-	sisik sesungut/antena
apricot (Prunus armenaica)	-	aprikot (Prunus armenaica)
aquarium	-	akuarium
arboricide	-	racun arbor/arborisid
arsenic	-	warang/arsenik
artificial drainage	-	saliran buatan
asclepaid tree (Calotropis gigantea)	-	rembega; remiga (Calotropis gigantea)
asparagus (Asparagus officianalis)	-	asparagus (Asparagus officianalis)
association (farmer)	-	persatuan (peladang)
autochthonous flora	-	tumbuhan asli
avocado pear (Persea americana/ gratissima)	-	buah avokado/ adpokat (Persea americana/ gratissima)

## B

bachelor's button (Gomphrena globosa)	-	bunga butang/bunga tiga bulan (Gomphrena globosa)
back cross	-	kacukan ke asal
bagworm (Chremastopsyche pendula; (Metisa plana)	-	ulat bungkus (Chremastopsyche pendula; (Metisa plana)
ballon vine (Cardiospermum halicacabum)	-	peria bulan/bintang (Cardiospermum halicacabum)
balsam (flower) (Impatiens balsamina)	-	keembong (Impatiens balsamina)
bamboo tree-mouse (Chropodomys gliroides)	-	tikus buluh kecil (Chropodomys gliroides)
barb (of feather)	-	sondak (bulu)

## Teknologi dan Penemuan Baru Pertanian

### 1. Kertas daripada rami padi

Satu projek awal bagi menghasilkan kertas daripada rami padi telah dijalankan oleh suri rumah dan belia di Los Banos, Laguna, Philipines. Projek tersebut dibiayai oleh Bank Pembangunan Asia dan dianjurkan oleh Institut Penyelidikan Padi Antarabangsa (IRRI) dan University of Philippines melalui rancangan yang dinamakan "Prosperity Through Rice". Institut Penyelidikan dan Kemajuan Hasil Hutan (FPRDI) di Los Banos telah melatih sembilan peserta tentang cara-cara membuat kertas tanpa mengguna mesin. Setiap peserta telah berjaya menghasilkan 50 keping kertas berukuran 8 x 12 inci setiap hari. Kos pelaburan untuk menjayakan usaha tersebut ialah US\$500. Mereka telah berjaya menghasilkan kertas daripada rami padi bagi membuat kad krismas untuk IRRI.

**Punca:** Agricultural Information Development Bulletin Jilid 9, bil. 1, Mac 1987, muka surat 26

### 2. Benih kelapa tabung uji

Di Sri Lanka, ahli-ahli sains pertanian telah berjaya menghasilkan benih kelapa di dalam tabung uji di dalam ujian makmal dan di ladang. Tanpa menggunakan racun perosak, embrio untuk dikultur dicampurkan dengan jagung dan kulat bagi mengawal perosak. Walaupun penyelidikan lanjut perlu dijalankan atas anak-anak kelapa yang dihasilkan melalui embrio itu, kajian yang dijalankan telah berjaya memberi hasil yang memuaskan. Ahli-ahli sains tersebut kini sedang menjalankan projek bagi menghasilkan anak kelapa dari cebisan-cebisan tisu daun.

**Punca:** Asian Business vol. 4, bil. 1, 1987, muka surat 5

### 3. Kertas uji klorin

Chloritest, kertas berkimia yang dapat menentukan kandungan klorin di dalam air dengan segera, telah dihasilkan oleh Marine Products Export Development Authority India. Teknologi ini dimajukan oleh Central Institute of Fisheries Technology, dan bahan tersebut dipasarkan oleh Glaxo Laboratories India Limited. Air yang telah diklorin banyak digunakan oleh kilang-kilang memproses makanan laut. Dengan adanya Chloritest, ia akan memudahkan lagi pengawalan mutu hasil-hasil industri makanan laut. Kawalan mutu penting untuk tujuan eksport dan ini selaras dengan kehendak perdagangan antarabangsa.

**Punca:** Infofish Marketing Digest Bil. 3, Mei/Jun 1987, muka surat 7

china clay/kaolin (H <sub>4</sub> A <sub>12</sub> Si <sub>2</sub> O <sub>9</sub> )	- tanah liat putih/ kaolin (H <sub>4</sub> A <sub>12</sub> Si <sub>2</sub> O <sub>9</sub> )
chocho (Sechium edule)	- gambas/labu siam/ timun siam (Sechium edule)
citrus	- sitrus/limau
clonal characteristic	- ciri klon
clonal material	- benih klon
clover (Trifolium spp.)	- klover/foder (Trifolium spp.)
cob	- tongkol
coleus (Coleus spp.)	- ati-ati (Coleus spp.)
coral fungi (gen. Claviceps)	- kulat karang (gen. Claviceps)
corn-drills	- baris tugal jagung; penugal jagung
creamed latex	- getah dadih
crop rotation	- tanaman bergilir
<b>D</b>	
decomposed	- terurai
digger plough	- bajak penggali
<b>F</b>	
farm	- ladang; kebun
farmer	- peladang; petani
feed	- beri makan; bahan makanan
feed additive	- penampung makanan
feeding stuff	- bahan makanan
fern (Pteridophytes)	- pakis (Pteridophytes)
fertilizer recommendation	- syor pembajaan

fertilizing	- membaja
foliage spray	- penyemburan dedaun
forage plants	- tumbuhan makanan/ternak

## G

galangal (Languas galanga)/ Alpinia galanga)	- lengkuas (Languas galanga)/ (Alpinia galanga)
Garcinia atroviridis	- asam gelugor (Garcinia atroviridis)
grain crop	- tanaman biji-bijian
granitic soil	- tanah granit
green fodder	- foder hijau
gymnosperm	- gimnosperma

## H

hedge plant	- tanaman pagar
herbicide	- racun herba
high fertility	- kesuburan tinggi
host	- perumah
host plant perumah	- tumbuhan/pokok perumah
hydrated lime	- kapur tawar

## I

inactive bud	- mata tunas lengai
inorganic fertilizer	- baja bukan organik
inorganic manure	- lihat: inorganic fertilizer
intercellular space	- ruang antara sel
internode	- ruas
intra-zonal	- intrazon



Barbary ape ( <i>Macaca sylvana</i> )	-	beruk Barbary ( <i>Macaca sylvana</i> )	braided chestnut ( <i>Castanopsis inermis</i> )	-	berangan ( <i>Castanopsis inermis</i> )
barberry ( <i>Berberis vulgaris</i> )	-	barberi (pokok) <i>Berberis vulgaris</i>	bread fruit ( <i>Artocarpus communis</i> )/ ( <i>Artocarpus incisus</i> )	-	sukun/kulur ( <i>Artocarpus communis</i> )/ ( <i>Artocarpus incisus</i> )
basal slips (pineapple)	-	sulur tangkai (nenas)	brinjal/egg plant ( <i>Solanum melongana</i> )	-	terung ( <i>Solanum melongana</i> )
basifixed (flower)	-	basifiks	brush cutter	-	penebas belukar
basil; sweet basil ( <i>Ocimum basilicum</i> )	-	kemangi/selasih ( <i>Ocimum basilicum</i> )	butter-fruit tree ( <i>Diospyros discolor</i> )	-	pokok buah mentega/buah saklat ( <i>Diospyros discolor</i> )
basswood; linden ( <i>Tilia americana</i> ); ( <i>Tilia europala</i> )	-	kayu bass ( <i>Tilia americana</i> ); ( <i>Tilia europala</i> )			
bayberry ( <i>Pimenta acris</i> )	-	pokok baiberi ( <i>Pimenta acris</i> )			
			<b>C</b>		
bell pepper ( <i>Capsicum annum</i> var. <i>grossum</i> )	-	cili kembang ( <i>Capsicum annum</i> var. <i>grossum</i> )	canangium ( <i>Canangium odoratum</i> )	-	kenanga ( <i>Canangium odoratum</i> )
betel palm ( <i>Areca catechu</i> )	-	pokok pinang ( <i>Areca catechu</i> )	canna ( <i>Canna indica</i> )	-	bunga tasbih ( <i>Canna indica</i> )
biomass	-	biomassa	carambola (star fruit) ( <i>Averrhoa carambola</i> )	-	belimbing segi ( <i>Averrhoa carambola</i> )
biotic	-	biotik	carapa ( <i>Carapa moluccensis</i> )	-	nyirih batu ( <i>Carapa moluccensis</i> )
bird chilli ( <i>Capsicum frutescens</i> var. <i>minimum</i> )	-	cili burung ( <i>Capsicum frutescens</i> var. <i>minimum</i> )	caraway ( <i>Cuminum cyminum</i> )	-	jintan putih ( <i>Cuminum cyminum</i> )
bird's nest fungi ( <i>Cyathus striatus</i> )	-	kulat sarang burung ( <i>Cyathus striatus</i> )	cash crop	-	tanaman kontan
blast/blast disease (padi) ( <i>Piricularia oryzae</i> )	-	penyakit blasta (padi) ( <i>Piricularia oryzae</i> )	cassia ( <i>Cassia alata</i> )	-	gelenggang ( <i>Cassia alata</i> )
blue green algae	-	alga biru hijau	castor-oil plant ( <i>Ricinus communis</i> )	-	pokok jarak ( <i>Ricinus communis</i> )
borer	-	pengorek; penggerek	catch crop	-	tanaman selingan
bottle gourd ( <i>Lagenaria leucantha</i> / <i>vulgaris</i> )	-	labu air; labu kendi ( <i>Lagenaria leucantha</i> / <i>vulgaris</i> )	caudal	-	ekor
bottom soil	-	tanah dalam/tanah bawah	cell-sap	-	sap sel
bouea tree ( <i>Bouea macrophylla</i> )	-	kundang/setar ( <i>Bouea macrophylla</i> )	chemical fertilizer	-	baja kimia
			chemical properties of soil	-	sifat kimia tanah

powdery mildew	-	kulapuk berdebu	tentacles	-	tentakel
prickly lantana ( <i>Lantana aculeata</i> )	-	bunga tahi ayam ( <i>Lantana aculeata</i> )	tractor	-	traktor
pruning	-	mecantas	tropical bracken ( <i>Gleichenia linearis</i> )	-	resam ( <i>Gleichenia linearis</i> )
pure seed	-	bijibenih tulen			
<b>R</b>			<b>V</b>		
ranch	-	ladang ternak	variety	-	varieti
red bean ( <i>Phaseolus angularis</i> )	-	kacang merah ( <i>Phaseolus angularis</i> )	vernonia ( <i>Vernonia cinerea</i> )	-	rumput tahi babi ( <i>Vernonia cinerea</i> )
			<b>W</b>		
residue	-	hampas; saki; baki	water cress ( <i>Nasturtium officinale</i> )	-	selada air ( <i>Nasturtium officinale</i> )
royal palm ( <i>Oreodoxa spp.</i> )/ ( <i>Roystonea spp.</i> )	-	palma diraja ( <i>Oreodoxa spp.</i> )/ ( <i>Roystonea spp.</i> )	wax gourd ( <i>Benincasa cerifera</i> )	-	kundur ( <i>Benincasa cerifera</i> )
<b>S</b>			weed control	-	pengawalan rumpai
sago	-	sagu	white weed/fowls dropping grass ( <i>Ageratum conyzoides</i> )	-	rumput tahi ayam ( <i>Ageratum conyzoides</i> )
seasonal crop	-	tanaman bermusim			
seedling blight	-	hawar anak benih			
seedling nursery	-	tapak semaian anak benih			
sisal hemp ( <i>Agave sisalana</i> )	-	pokok sisal ( <i>Agave sisalana</i> )			
smoked sheet	-	getah keping asap			
soil moisture	-	lembapan tanah			
soil profile	-	profail tanah			
soil water	-	air tanah			
straw	-	jerami			
sweet shoot ( <i>Sauropus androgynus</i> )	-	cekur manis/asin- asin ( <i>Sauropus androgynus</i> )			
<b>T</b>					
Tamil safflower ( <i>Bixa orellana</i> )	-	kesumba keling ( <i>Bixa orellana</i> )			

**J**

- John Innes potting - kompos pasu John Innes
- John Innes seed compost - kompos biji benih John Innes

**L**

- lady's fingers/okra (Hibiscus esculentus) - bendi/bender (Hibiscus esculentus)
- lamina - lai
- land classification - pengelasan tanah
- latex bulking tank susu getah - tangki pengumpul susu getah
- layer mash - makanan penelur
- laying nest - tarang/petarangan/sangkak ayam
- leaf spot - bintik daun
- locule - ruang
- lotus lily/nelumbo (Nalumbium nelumbo) - teratai/seroja (Nalumbium nelumbo)
- lye - air abu/air soda

**M**

- major crops - tanaman major
- mangrove - bakau
- mangrove forest - hutan bakau
- manure - baja
- manuring - membaja
- membranous wing - kepek nipis/selupat
- mildew - kulapuk
- molybdenum - molibdenum
- moss - mos
- mountain rhu - ru bukit

**N**

- nelumbo/lotus lily (Nalumbium nelumbo) - teratai/seroja (Nalumbium nelumbo)
- nitrogen - nitrogen
- nursery bed - batas semaian

**O**

- orchard manangement - pengurusan dusun
- ovum - ovum

**P**

- padi husbandry - pengurusan tanaman padi
- palm kernel oil - minyak isirong sawit
- parent rock - batuan induk
- parsnip (Pastinaca sativa) - parsnip (Pastinaca sativa)
- passion fruit (Passiflora edulis) - buah susu/markisah (Passiflora edulis)
- pasteurised milk - susu dipasteurkan
- phosphate - fosfat
- phosphate fixation - pengikatan fosfat
- plant nutrient - zat makanan tumbuhan
- plant tissue - tisu tumbuhan
- planthopper (Sogatella furcifera) - bena putih (Sogatella furcifera)
- pod borer (Etiella zinckenella) - penebuk buah/lengai (Etiella zinckenella)
- pomelo - limau bali/limau abung
- potash manure - baja potasy
- potting - memasu

Kalendar ini menyenaraikan seminar, konferens, simposium dan bengkel peringkat kebangsaan dan antarabangsa mengenai pertanian dan perkara-perkara berkaitan dengannya yang akan diadakan dari bulan September 1987 hingga bulan Disember 1987. Untuk melengkapkan lagi senarai ini, anda adalah dipelawa untuk melaporkan apa juga maklumat mengenai lain-lain seminar, konferens dan bengkel pertanian yang tidak termasuk di dalam senarai ini.

**September 7-10**

Judul : Roving Lecture in Watershed Rehabilitation  
 Tempat : Dewan Konferens, Pusat Pengembangan dan Pendidikan Lanjutan, UPM  
 Anjuran : ASEAN-US Watershed Project; Fakulti Perhutanan & Jabatan Perhutanan Malaysia

**September 22-23**

Judul : Seminar Kebangsaan "Real Time Systems and Computer Aided Engineering"  
 Tempat : Pusat Pengembangan & Pendidikan Lanjutan, UPM  
 Anjuran : UPM, UNESCO/FIESEAP, MIMOS

**September 23-25**

Judul : International Conference on Pesticides in Tropical Agriculture  
 Tempat : Kuala Lumpur  
 Anjuran : MARDI; MAPPS

**Oktober 12-17**

Judul : Kursus "Pengurusan Kilang"  
 Tempat : Pusat Latihan RRIM, Sg. Buluh, Selangor  
 Anjuran : RRIM

**Oktober 26-28**

Judul : Kursus Pendek "Domestic Wastewater treatment alternative"  
 Tempat : Pusat Pengembangan dan Pendidikan Lanjutan, UPM  
 Anjuran : UPM; PEPAS; Jabatan Alam Sekitar (Kementerian Sains & Alam Sekitar)

**Oktober 26-31**

Judul : Kursus "Penulisan Artikel-artikel Pertanian Untuk Akhbar-Akhbar dan Majalah"  
 Tempat : Pusat Pengembangan dan Pendidikan Lanjutan, UPM  
 Anjuran : Pusat Pengembangan dan Pendidikan Lanjutan, UPM

**November 9-13**

Judul : Kursus Teknologi Penggunaan Racun Makhluk Perosak ke 4  
 Tempat : Pusat Pengembangan dan Pendidikan Lanjutan, UPM  
 Anjuran : Jabatan Perlindungan Tumbuhan, UPM & MAPPS

**November 9-14**

Judul : Kursus "Pengeluaran Getah Gred Lama"  
 Tempat : Pusat latihan RRIM, Sg. Buluh, Selangor  
 Anjuran : RRIM

**November 23 - Dis 12**

Judul : Techniques for Preserving Organisms  
 Tempat : Planti, Serdang  
 Anjuran : Planti, Serdang

**November 30 - Dis 4**

Judul : Kursus Perlembahan ke 10  
 Tempat : Jabatan Perlindungan Tumbuhan, UPM  
 Anjuran : Jabatan Perlindungan Tumbuhan, UPM

**Disember 15-17**

Judul : Seminar Serantau "Alternative Energy"  
 Tempat : Pusat Pengembangan dan Pendidikan Lanjutan, UPM  
 Anjuran : UPM, MSAE, UNESCO/FIESEAP

**Dis 16-17**

Judul : Movement of Pests and Control Strategies  
 Tempat : Serdang, Selangor  
 Anjuran : Asean Plant Quarantine Centre and Training Insititute, Serdang