Lampiran 1

RICE SAMPLE FROM GUA CHA

Dr D.E. Yen, Department of Prehistory,
Research School of Pacific Studies, A.N.U.

Description:
Charred starchy endosperm in fire ash, with charred stony material (limestone).

Identification:
Rice: *Oryza sativa L.* supported by
structural features of
1. longlitudinal "grooves"
conforming with absent lemma structures
2. position of embryo

General uniformity of size would indicate that the sample is representative of a part of the variation of the tropical rice Indica (relatively small size of Japonica/Javanica), consistent with its provenence. While this takes no account of the possibilities of significant shrinkage during charring (and perhaps during deposition), it might be considered as a reasonably firm identification.

Speculation
Since grain size appears to be smaller than in the modern commercial varieties of the area, it *could* be that the sample represents a somewhat "more primitive" selection or series of selections, despite its relatively late dating. However, I would not stress this too much, because of the present day existence of small grained varieties in Southeast Asia among subsistence farmers (see Yen, 1977).

The difficulty attendant on such identifications is that they could refer to "wild rice". Some of my unpublished data show that some present day wild representatives of *O. Sativa* are of similar grain size to cultivate ones (some are larger). It seems to me that the cultural contexts sways opinion on the wild/cultivated issue.

REFERENCE

YEN, D.E., 1977 Hoabinhian horticulture: The evidence and the questions from northwest Thailand, in Allen, J., et al, Sunda and Sahul, London, Academic Press.

Lampiran 2

Keterangan litologi lubang gerimit PK1/B1 (terletak di kawasan paya bakau di tenggara petempatan PK1).

Paras permukaan ke kedalaman 1.95m	Peat, very silty, slightly clayvey 7.5YR 2/3 (v. dark brown) abundant recent roots remains typical hydrogen sulphide smell shell remains at base (mostly Anadara) - gradual boundary
1.95m ke 2.45m	Clay, slightly silty 10GY 7/1 (light greenish grey) abundant shell remains (mostly Anadara) rare sandy/silty concretions (3 to 4mm) small amt. of potsherds rare hardened charcoal fragments (5mm)
2.45m ke 14.0m	Clay, slightly silty 10GY 7/1 (light greenish grey) rare shell remains moderately friable (at 5 to 6m depth)
From: 6.3m to 6.4m 7.9m to 8.0m 9.15m to 9.20m	Patches of fine sand present abundant shell fragments lenses of fine sand - Stopped at 14m

Lampiran 3

Keterangan litologi parit galicari H di tapak arkeologi PK1

Paras permukaan ke kedalaman 0.10m	Silt very clayey and organic 10YR 1.7/1 (black) small amount of Anadara (halves) abundant fresh roots mod. amount (< 10%) of potsherds - gradual boundary
At 10 to 12cm	found potsherds & sandy/silty concretions (hard) interlayered with Placuna layer (< 1 cm)
0.10m ke 0.25m	Shell (Anadara in halves and whole) moderately clayvey & silty 10YP 2/2 (brownish black) abundant sandy/silty concretions (< 1cm) mod. amt. of potsherds mod. amt. of fresh roots very humi
0.25m ke 0.40m	Silt, slightly sandy, mod. clayvey 10YR 4/2 (greyish yellow brown) abundant (30%) < 1cm sandy/silty concretions mod. amt. of Anadara (halves) found gastropod fragments small amt. of fresh roots very humic abundant potsherd (20%) - gradual boundary
0.40m ke 0.70m	Silt, slightly sandy, mod. clayvey 10YR 3/3 (dark brown) moderate amt. of fresh roots (15%) mod. amt. (15%) of Anandara (halves) abundant postsherds (30%) esp. at 60 cm layer very humic mod. amt. of dispersed sandy/silty concretions (<1 cm) - clear boundary
0.70m ke 0.78m	Placuna layers interlayed with v. humic clayvey silt (black) and scattered potsherds - clear boundary

0.78m ke 1.05m

Silt very organic
5YR 1.7/1 (black)
small amt. of fresh roots
abundant potsherds
abundant but scattered massive sandy/silty concretions
as large as 1cm esp. below the Placuna layer
small amount of Anandara fragments

Note:
- potsherds just below the Placuna layer is mostly black
- potsherd from 85cm to 105cm is reddish orange and some black
- from 85cm to 105cm lenses of baked earth (7.5YR 4/4 - brown)

- clear boundary

1.05m ke 1.5m

Silt mod. clayvey and slightly sandy
(interlaying of baked earth with charcoal lenses and thin ash layers)
5YR 4/4 (dull reddish brown)
mod. amt. (15%) of charcoal
fragments (in lenses and in thin layers)
mod. amt. of potsherds
mod. amt of sandy silt concretions
Placuna layer at 150cm

Note:
- small amt. of fresh roots occur only from top to about 112cm depth

1.5m ke 2.00m

Hardened earth
(litologically similar to above)
composed of baked earth, charcoal fragments & ash material and rare potsherds

- stopped description (water level reached)

JADUAL 1 : KANDUNGAN DEBUNGA DAN SPORA DI DALAM SAMPEL-SAMPEL PK1/B1 DAN PARIT GALICARI H DI PK 1

Lokasi persmpelan	PK1/B1						Parit galicari H di PK1	
Kedalaman sampel dari permukaan (cm)	10		50		90		10	30
Kandungan dan % debunga dan spora	Bil	%	Bil	%	Bil	%	Bil	Bil
DEBUNGA								
* *Rhizophora*	97	70.2	74	81.3	156	80.0	15	4
Rhizophoraceae (lain-lain)	2	1.5	2	2.2	10	5.1	-	-
Sonneratia alba	-	-	-	-	1	0.5	-	-
Terminalia catappa?	14	10.1	8	8.8	11	5.6	-	-
Carappa	8	1.5	2	2.2	-	-	-	-
Dipterocarpaceae	3	3.2	-	-	3	1.6	-	-
Calamus	2	1.5	-	-	3	1.6	-	-
Arenga	3	1.5	1	1.1	-	-	-	-
Palmae (lain-lain)	-	-	-	-	-	-	3	-
Pandanuss	-	-	-	-	-	-	2	-
Gramineae	1	0.7	-	-	-	-	-	-
Cyperaceae	1	0.7	-	-	-	-	2	-
Trema	-	-	-	-	-	-	1	-
Rosak, terlipat dan tersembunyi	11	7.9	4	4.4	10	5.1	-	4
Tidak dikenalpasti	3	2.2	-	-	1	0.5	-	-
Jumlah Debunga	138	100	91	100	195	100	23	8
SPORA								
Acrostichua aureua	19	82.6	9	60.0	11	73.3	-	-
Lycopodium	-	-	1	6.7	-	-	-	-
'Monolete' (lain-lain)	3	13.0	5	33.3	4	26.1	1	-
'Trilete' (lain-lain)	1	4.4	-	-	-	-	-	-
Jumlah Spora	23	100	18	100	15	100	1	-