

ANNEX : II

Priority of activities in the Laboratory are as follows :

Priority A :

1. General Assay
2. Bacteriological Assay
3. Diagnostics and immune serum assay
4. Viral vaccine assay
5. Antibiotics assay
6. Pathological assay
7. Experimental animal breeding.

Priority B :

1. General drug assay.

ANNEX I III

A. Buildings and Facilities

1. Assay laboratory for biological products (vaccine, sera and biological diagnostics) in relation to :
 - Bacterial diseases
 - Viral diseases
 - Poultry diseases
2. Assay laboratories for veterinary drugs
 - Antibiotics
 - General Medicaments
3. Laboratory for pathology including Residue Chemical Analysis.
4. Experimental animal houses.
5. Administrative facilities :
 - Administration room
 - Lecture and conference room
 - Library.
6. Utility facilities :
 - Incinerator
 - Waste water disposal
 - Electric transformer station.
7. Other necessary facilities.

B. Basic Equipment.

ANNEX : IV

Following arrangements are to be taken by the Government of the Republic of Indonesia.

1. To provide necessary data for basic design such as water analysis, land survey and condition of sub. soil, as soon as possible.
2. To carry out site preparation such as clearing, leveling and access road before commencement of construction works.
3. To provide facilities for distribution of electricity, water supply, drainage, telephone lines and other incidental facilities to the building.
4. To ensure prompt unloading and customs clearance at ports of disembarkation in Indonesia and prompt internal transportation of the products purchased under the grant.
5. To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in Indonesia with respect to the supply of the products and services under the verified contracts.
6. To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into Indonesia and stay therein for the performance of their work.
7. To maintain the facilities and equipment extended by the grant aid.
8. To bear all expenses, other than those to be borne by the grant, necessary for construction of the facilities as well as for the internal transportation and services under the grant.
9. To undertake incidental civil works such as gardening, fencing, gates, guard house, garage, parking lots and exterior lighting.
10. To furnish general furniture except those which are laboratory use.

MINUTES OF DISCUSSIONS

THE ESTABLISHMENT OF THE VETERINARY ASSAY LABORATORY
IN THE REPUBLIC OF INDONESIA

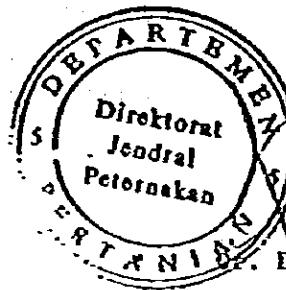
At the request of the Government of the Republic of Indonesia for grant aid assistance for the Establishment of the Veterinary Assay Laboratory in Bogor District, the Government of Japan dispatched a Mission to carry out the Basic Design Study (hereinafter referred to as "the study") on the Establishment of the Veterinary Assay Laboratory (hereinafter referred to as "the Project") through Japan International Cooperation Agency (JICA) from March 30th to April 24th 1983.

The Mission carried out a field survey and had a series of discussions with the authorities concerned of the Government of the Republic of Indonesia.

As a result of these survey and discussions, JICA prepared and submitted a Draft Final Report on the Study and dispatched a Mission to explain and discuss this Report starting from July 18th, 1983.

Both parties had a series of discussions on the Report and have agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined toward the realization of the Project.

July 25th, 1983



Shozo Tanaka

Dr. Shozo Tanaka
Head of Japanese
Mission.

Dr. Daban Danuwidjaya
Director General of Livestock Services,
Department of Agriculture, Indonesia.

MAJOR POINTS OF UNDERSTANDING

BASIC DESIGN

1. The Indonesian side has agreed to the basic design proposed in the Draft Final Report.
2. The Final Report (10 copies in English) on the Project will be submitted to the Government of the Republic of Indonesia by the end of September 1983.
3. It was confirmed that the Indonesian side understood the Grant Aid programme to be extended by the Government of Japan and special arrangements to be taken up by the Indonesian side.

Handwritten signature and date: 25/9/83

Handwritten initials: S. T.

1-g. Proposal of the Indonesian Government to Extended Grand Aid for Deep Well and Dormitory

THE IMPORTANCE OF DEEP WELL
AND DORMITORY IN THE NATIONAL
VETERINARY ASSAY LABORATORY
----- (ATA - 297) -----

I . DEEP WELL .

Clean water supply is an inevitable factor in the National Veterinary Assay Laboratory . Without sufficient clean water supply the laboratory will not function properly .The municipal water supply is not available in the project site .

To facilitate the supply of clean water in the National Veterinary Assay Laboratory a deep well which is equipped with water purifying treatment facilities has to be set up within the complex of the National Veterinary Assay Laboratory .

II . DORMITORY

Apart from the main function of the National Veterinary Assay Laboratory it is intended to make use the laboratory as a training centre where field veterinarians who are responsible to supervise and control the distribution and applications of veterinary drugs in the field can be trained for certain period in veterinary drug control system.

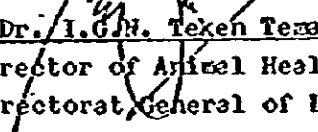
The number of veterinarians to be trained every year is about 20 persons.

To facilitate the implementation of the training since the project site is quite far from the town in addition to the factor of efficiency a dormitory which accomodates 20 persons is considered assential to be built within the complex of the National Veterinary Assay Laboratory .

III. PROPOSAL

With respect to the importance of deep well and water purifying treatment facilities and dormitory it is the Indonesian Government wish that these facilities could be covered by the Japan's Graid aid Programme .

Jakarta, April 10th , 1983


Dr. I.G.N. Teken Temadja
Director of Animal Health
Directorat, General of Livestock
Services, Department of Agriculture
Indonesia .

2-a. Area and Population of main Islands

Luas daerah dan jumlah penduduk
Area and Population of main Islands

Pulau	Luas (dalam Km Persegi)	1971	1973	1974	1975	1976	1977	1978	1979	1980	Area (in sq miles)	Island
		(Proyeksi penduduk dalam ribuan/projection of population in thousands)										
Kalimantan	539.450	5.355	5.480	5.626	5.771	5.856	6.023	6.176	6.330	6.723	208.185	Kalimantan
Sumatera	473.606	21.652	22.286	22.931	23.598	23.855	24.557	25.231	25.911	28.016	182.859	Sumatera
Sulawesi	189.216	8.830	9.074	9.313	9.562	9.403	9.668	9.829	10.037	10.410	73.656	Sulawesi
Jawa dan Madura	132.107	78.356	80.077	81.821	83.334	83.600	85.075	86.515	88.103	91.270	51.037	Jawa dan Madura
Irian Jaya	411.981	552	552	1.007	1.033	174	378	102	186	1.974	162.927	Irian Jaya
Pulau-pulau lain	162.933	7.383	8.192	8.600	8.610	8.410	8.555	8.724	8.868	9.897	62.933	Other Islands
JUMLAH	1.919.643	127.115	128.068	130.083	132.110	131.348	133.996	135.733	139.436	147.690	741.692	TOTAL
Tingkat kenaikan (%)		2,41	2,41	2,38	2,35		2,02	2,05	1,97			Rate of increase (%)

Catatan:

1. Jumlah penduduk 1971 - 1975 a.d. sensus 1971.
2. Jumlah penduduk 1976 - 1979 a.d. SUPAS 1976.
 - untuk NTT, hanya pada Kabupaten Kupang.
 - untuk Maluku, hanya pada Kotamadya Ambon.
 - untuk Irian Jaya, hanya pada Kota Jayapura.
3. Jumlah penduduk 1980, a.d. sensus 1980.

Note:

1. Population 1971 - 1975 based on 1971 census.
2. Population 1976 - 1979 based on Inter-censal Population Survey of 1976.
 - For East Nusa Tenggara, Kupang municipality only.
 - For Maluku, Ambon regency only.
 - For Irian Jaya, Jayapura city only.
3. Population 1980 based on 1980 census.

(Ditinjau Statistik)

(Reviewed by Statistics)

TABEL : II.2. SUHU UDARA MAKSIMUM RATA-RATA DALAM °C, 1977 - 1978
TABLE : II.2. MEAN MAXIMUM TEMPERATURE IN °C, 1977 - 1978

STASIUN STATION	TAHUN YEAR	LOKASI LOCATION	TINGGI HEIGHT (METER)	BULAN / MONTH													
				JAN JAN	FEB FEB	MARET MARCH	APRIL APRIL	MAY MAY	JUNI JUNE	JULI JULY	AGUST AUGUST	SEPT SEPT	OKT OCT	NOV NOV	DES DEC		
1. Banda Aceh/Bintang Beting	1977	06° 30'LU/ 90° 20'BT	20	31.1	31.3	32.2	32.7	32.7	32.6	32.6	32.6	33.6	34.0	33.2	31.6	31.0	31.2
	1978	06° 30'LU/ 90° 20'BT	20	31.5	31.7	32.4	32.9	32.8	32.8	33.1	33.1	33.6	32.0	31.8	31.1	31.7	30.6
2. Medan/Polina	1977	03° 34'LU/ 98° 40'BT	31	31.3	31.0	31.0	32.8	32.8	32.8	31.9	31.1	31.8	30.4	31.0	30.2	30.1	30.4
	1978	03° 34'LU/ 98° 40'BT	31	30.5	31.7	31.0	31.2	30.8	30.8	30.7	30.6	30.4	30.3	30.3	30.2	30.1	30.3
3. Padang/Tabing	1977	00° 56'LS/100° 22'BT	03	30.4	30.0	30.0	30.9	31.2	30.1	31.7	30.3	30.1	30.1	30.1	30.3	29.9	30.3
	1978	00° 56'LS/100° 22'BT	03	31.4	31.4	32.3	33.0	33.6	33.5	33.5	32.6	31.8	31.8	32.0	31.9	32.1	32.4
4. Pekanbaru/Simpang Tiga	1977	00° 28'LS/101° 28'BT	31	32.2	32.6	33.4	33.4	33.6	33.0	33.0	32.4	32.4	32.8	32.8	32.0	31.2	31.2
	1978	00° 28'LS/101° 28'BT	31	31.3	30.0	31.5	32.3	32.2	32.2	32.9	32.1	32.1	32.1	31.9	32.9	31.5	31.2
5. Jambi/Palmarah	1977	01° 36'LS/103° 38'BT	10	31.0	31.1	32.2	32.6	32.4	32.4	32.1	32.0	32.1	32.1	32.2	32.3	31.0	30.1
	1978	01° 36'LS/103° 38'BT	10	30.5	30.0	30.4	31.5	31.9	31.8	31.9	31.9	31.8	31.1	31.1	31.7	31.1	30.1
6. Palembang/Talang Batu	1977	02° 34'LS/104° 42'BT	12	30.1	30.8	31.6	32.0	32.0	31.8	31.9	31.9	30.6	31.8	31.1	31.7	31.1	30.1
	1978	02° 34'LS/104° 42'BT	12	32.2	32.7	33.5	34.7	34.6	34.7	33.9	33.3	33.3	33.1	32.6	32.3	32.6	32.8
7. Bengkulu/Padang Kemling	1977	03° 43'LS/102° 17'BT	15	31.8	33.0	32.8	31.4	31.7	31.4	31.7	30.6	30.4	30.9	30.2	30.4	30.6	30.6
	1978	03° 43'LS/102° 17'BT	15	30.5	29.7	30.6	32.5	33.1	33.1	31.8	31.8	32.6	32.9	32.8	34.4	32.6	30.7
8. Jakarta/OBS	1977	06° 10'LS/106° 49'BT	07	30.0	31.5	32.0	33.0	33.0	33.0	31.8	32.1	32.1	32.6	32.4	32.4	32.7	30.7
	1978	06° 10'LS/106° 49'BT	07	27.6	27.3	27.6	29.1	29.3	28.4	28.9	28.9	29.3	29.3	29.8	31.2	29.9	28.7
9. Bandung/H. Sastranegara	1977	06° 54'LS/107° 39'BT	743	27.6	27.3	27.6	29.1	29.3	28.4	28.9	28.9	29.3	29.3	29.8	31.2	29.9	28.7
	1978	06° 54'LS/107° 39'BT	743	27.6	27.3	27.6	29.1	29.3	28.4	28.9	28.9	29.3	29.3	29.8	31.2	29.9	28.7
10. Semarang/A. Yan	1977	06° 59'LS/110° 22'BT	03	29.8	29.5	29.5	31.8	32.6	32.6	31.9	33.0	33.4	33.6	33.6	34.4	33.2	30.7
	1978	06° 59'LS/110° 22'BT	03	30.1	30.3	31.4	32.0	32.7	32.6	31.9	32.2	33.3	33.3	32.6	32.4	32.7	30.7
Surabaya/Perak	1977	07° 13'LS/112° 46'BT	07	31.5	30.9	30.7	31.0	32.2	31.0	31.0	30.9	31.3	32.5	32.5	34.7	34.8	31.9
	1978	07° 13'LS/112° 46'BT	07	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	31.6	32.3	32.3	33.4	33.0	31.1
12. Denpasar	1977	08° 40'LS/118° 13'BT	01	30.9	30.3	30.7	30.6	30.0	30.0	29.2	27.8	27.8	28.4	28.4	30.2	31.3	31.0
	1978	08° 40'LS/118° 13'BT	01	30.9	30.9	31.0	30.9	31.6	31.6	29.3	29.1	29.3	29.0	29.0	30.1	30.7	30.7
13. Balikpapan	1977	01° 17'LS/119° 51'BT	03	31.1	32.3	32.2	32.1	32.3	32.3	32.0	31.6	32.3	31.6	31.7	31.0	31.0	31.0
	1978	01° 17'LS/119° 51'BT	03	29.7	29.5	30.5	30.8	31.3	30.9	30.9	31.7	32.1	32.5	32.9	32.9	30.2	30.2
14. Pontianak/Supadio	1977	03° 04'LS/119° 32'BT	14	30.0	29.5	30.6	31.2	31.2	31.2	31.2	30.5	31.8	31.8	31.7	32.3	31.4	29.6
	1978	03° 04'LS/119° 32'BT	14	29.5	29.5	29.5	29.3	30.8	30.2	30.2	31.0	32.5	32.5	31.6	31.4	31.4	30.0
16. Manado/Masangoi	1977	01° 30'LU/124° 50'BT	80	29.4	29.4	31.4	30.4	31.3	31.2	30.2	30.8	31.4	30.8	31.2	30.2	30.2	29.3
	1978	01° 30'LU/124° 50'BT	80	30.0	30.3	31.4	30.4	31.3	31.2	30.2	31.9	30.7	31.5	30.8	32.1	31.0	31.0
17. Ternate	1977	00° 50'LU/122° 25'BT	33	30.2	31.0	30.7	31.1	31.7	31.1	31.2	30.5	30.3	30.4	30.4	31.1	30.6	30.6
	1978	00° 50'LU/122° 25'BT	33	30.2	31.0	30.7	31.1	31.7	31.1	31.2	30.5	30.3	30.4	30.4	31.1	30.6	30.6

Sumber/Sources : Pusat Meteorologi dan Geofisika/Meteorological and Geophysical Centre

TABEL 11.2. RATA-RATA BUMBU UDARA DALAM °C, 1977 - 1978
 TABLE 11.2. MEAN TEMPERATURE IN °C, 1977 - 1978

STASIUN STATION	TAHUN YEAR	LOKASI LOCATION	TINGGI HEIGHT (METER)	BULAN / MONTH												
				JAN JAN	FEB FEB	MAR MARCH	APRIL APRIL	MAY MAY	JUNI JUNE	JULI JULY	AGUST AUGUST	SEPT SEPT	OKT OCT	NOV NOV	DES DEC	
1. Rante Arah/Biang Biring	1977	00° 20'LU/ 96° 20'BT	20	26,9	26,8	26,4	26,9	27,0	27,4	27,6	27,6	27,3	26,5	26,5	26,3	26,3
	1978	00° 20'LU/ 96° 20'BT	20	26,9	26,4	26,3	26,7	27,6	27,6	26,6	26,6	27,0	26,4	26,0	26,1	25,8
2. Medan/Popma	1977	03° 34'LU/ 98° 49'BT	31	26,0	26,0	26,2	27,1	27,0	26,7	26,7	27,2	26,0	26,5	25,9	25,8	26,0
	1978	03° 34'LU/ 98° 49'BT	31	26,9	26,8	26,8	26,8	27,3	26,8	26,8	26,1	26,6	26,1	25,8	25,8	26,0
3. Pailang/Tabang	1977	00° 30'LS/100° 22'BT	03	26,1	26,7	26,6	26,7	26,4	26,3	26,8	26,9	26,8	26,0	26,8	25,7	26,1
	1978	00° 30'LS/100° 22'BT	03	26,1	26,2	26,5	26,5	26,7	26,2	26,8	26,0	26,0	26,5	25,8	25,9	26,1
4. Palantau/Simbang Tiga	1977	00° 28'LS/101° 20'BT	31	25,0	26,1	26,2	26,6	26,8	26,8	26,9	26,4	26,6	26,2	26,2	26,1	26,1
	1978	00° 28'LS/101° 20'BT	31	25,0	26,2	26,6	27,0	27,2	26,9	26,8	26,4	26,6	26,2	26,2	26,0	26,1
5. Jambi/Pai Merah	1977	01° 30'LS/103° 34'BT	10	26,1	26,4	26,0	26,3	26,7	26,3	26,3	26,6	26,2	26,5	27,0	26,2	26,1
	1978	01° 30'LS/103° 34'BT	10	26,1	26,1	26,7	26,5	27,0	26,8	26,8	26,2	26,5	26,0	26,5	26,1	25,8
6. Palembang/Talangbetutu	1977	02° 34'LS/104° 42'BT	12	26,0	26,5	26,8	26,6	26,7	26,6	26,6	26,2	26,5	26,8	27,2	26,6	26,1
	1978	02° 34'LS/104° 42'BT	12	26,9	26,8	26,6	27,0	26,7	26,9	26,9	26,6	26,2	26,5	26,8	26,1	25,8
7. Bengkulu/Padang Kemuning	1977	03° 43'LS/102° 17'BT	15	26,8	26,9	26,4	26,8	26,7	26,4	26,4	26,9	26,7	26,5	26,6	26,9	26,5
	1978	03° 43'LS/102° 17'BT	15	26,7	26,6	26,6	26,1	26,8	26,8	26,8	26,6	26,6	26,2	26,6	26,8	26,7
8. Jember/ONS	1977	06° 10'LS/106° 49'BT	07	26,5	26,0	26,7	27,6	26,1	26,9	26,9	27,4	27,9	27,6	26,6	26,8	27,1
	1978	06° 10'LS/106° 49'BT	07	26,8	27,0	27,3	27,8	28,1	27,1	27,1	27,1	27,5	27,3	27,3	27,5	26,7
9. Rembung/M. Saitonggasa	1977	06° 10'LS/106° 49'BT	743	22,2	22,0	22,2	22,9	23,0	21,4	21,4	21,8	22,1	22,8	24,5	22,5	22,1
	1978	06° 10'LS/106° 49'BT	743	22,4	23,0	22,6	22,8	22,2	22,4	22,4	22,0	22,5	22,5	23,0	22,8	22,4
10. Sumawang/A. Yem	1977	06° 54'LS/107° 35'BT	03	26,3	26,7	27,2	27,9	27,9	27,1	26,8	26,7	27,3	27,3	26,0	27,7	27,1
	1978	06° 54'LS/107° 35'BT	03	27,2	26,9	26,7	27,2	26,0	27,0	26,8	26,2	26,4	27,4	26,8	26,4	27,1
Sulabaya/Perak	1977	07° 13'LS/112° 46'BT	07	26,7	27,2	27,8	27,7	27,6	26,0	26,0	26,8	27,3	27,5	26,1	26,6	27,4
	1978	07° 13'LS/112° 46'BT	07	27,8	27,3	27,6	27,4	27,1	26,4	26,4	26,3	26,1	26,6	27,1	26,0	26,0
12. Cempes	1977	06° 40'LS/118° 13'BT	01	26,0	26,0	26,7	27,6	27,1	26,9	26,9	27,3	27,0	27,7	27,6	27,4	26,8
	1978	06° 40'LS/118° 13'BT	01	26,0	26,6	26,6	27,7	27,6	26,0	26,0	26,2	26,3	26,4	27,3	27,5	27,5
13. Kallipapan	1977	01° 17'LS/116° 51'BT	03	26,3	26,0	26,7	27,2	27,1	27,7	27,1	26,9	27,0	27,7	27,6	27,4	26,8
	1978	01° 17'LS/116° 51'BT	03	26,6	26,6	27,2	27,1	27,7	27,1	26,9	26,9	27,0	26,5	27,2	27,2	26,6
14. Ujung Padang/Masohuddin	1977	04° 04'LS/119° 32'BT	14	26,3	26,3	26,1	26,1	26,4	26,5	26,5	26,2	26,7	26,8	27,2	27,1	26,1
	1978	04° 04'LS/119° 32'BT	14	26,9	26,0	26,2	26,4	26,6	26,2	26,2	26,7	26,1	26,6	26,6	26,3	26,7
15. Meneer/Mesongi	1977	01° 30'LU/124° 50'BT	80	26,4	26,8	26,4	26,8	26,8	26,7	26,7	26,6	26,1	26,7	26,8	26,5	26,0
	1978	01° 30'LU/124° 50'BT	80	26,3	26,4	26,5	26,6	26,4	26,4	26,4	26,5	26,5	26,7	26,2	26,9	26,5
16. Ternate	1977	00° 50'LU/127° 29'BT	33	26,1	26,6	26,1	26,0	26,4	26,6	26,6	26,5	26,9	26,6	26,0	26,3	26,5
	1978	00° 50'LU/127° 29'BT	33	26,9	26,4	26,1	26,2	26,9	26,6	26,6	26,9	26,1	26,8	26,4	26,2	26,3

Sumber/Source : Pusat Meteorologi dan Geofisika/Meteorological and Geophysical Centre

TABEL 1.11.5. RATA-RATA PENYINARAN MATAHARI DALAM PERSENTASE, 1977 - 1978
 TABLE 1.11.5. MEAN DURATIONS OF SUNSHINE IN PERCENTAGE, 1977 - 1978

STASIUN STATION	TAHUN YEAR	LOKASI LOCATION	TINGGI MIGHT (METER)	BULAN / MONTH											
				JAN JAN	FEB FEB	MAR MARCH	APRIL APRIL	MAY MAY	JUNI JUNE	JULY JULY	AGUST AUGUST	SEPT SEPT	OKT OCT	NOV NOV	DES DEC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Medan/Polonia	1977	03° 34'LU/ 98° 40'BT	31	38	42	52	55	48	52	55	48	50	30	36	47
	1978	03° 34'LU/ 98° 40'BT	31	32	41	49	50	50	48	48	45	38	39	45	45
2. Padang/Tabing	1977	00° 06'LS/100° 22'BT	00	57	66	66	66	60	64	61	58	42	40	44	52
	1978	00° 16'LS/100° 22'BT	00	40	58	53	57	49	51	55	54	42	52	45	42
3. Pekanbaru/Simpang Tiga	1977	00° 28'LS/101° 20'BT	31	42	46	46	55	70	75	65	48	42	54	40	48
	1978	00° 28'LS/101° 20'BT	31	47	40	48	58	55	56	60	48	51	44	57	
4. Jambi/Pai Merah	1977	01° 30'LS/103° 38'BT	10	41	46	45	51	65	60	78	62	55	63	43	50
	1978	01° 30'LS/103° 38'BT	10	59	48	48	50	49	53	48	60	41	52	44	38
5. Palembang/Talang Kemuning	1977	02° 34'LS/104° 42'BT	12	46	43	49	52	73	68	71	68	50	56	50	48
	1978	02° 34'LS/104° 42'BT	12	55	50	54	56	52	68	50	64	50	56	50	48
6. Bengkulu/Padang Kemuning	1977	03° 43'LS/102° 17'BT	15	58	58	61	74	80	74	69	78	64	76	54	61
	1978	03° 43'LS/102° 17'BT	15	58	57	61	62	69	66	62	61	64	56	60	51
7. Jakarta/OBS	1977	06° 10'LS/108° 49'BT	07	33	22	43	63	76	61	91	84	80	87	82	40
	1978	06° 10'LS/108° 49'BT	07	41	47	40	70	69	40	59	68	68	69	59	27
8. Bengkulu/H. Sastranegara	1977	06° 04'LS/107° 30'BT	743	45	34	43	54	59	53	68	81	71	65	50	57
	1978	06° 04'LS/107° 30'BT	743	46	46	44	63	61	49	66	70	52	59	51	42
9. Semarang/A. Yani	1977	06° 59'LS/110° 22'BT	03	24	20	55	45	55			40	75	59	53	35
	1978	06° 59'LS/110° 22'BT	03												38
10. Surabaya/Puruh	1977	06° 13'LS/112° 40'BT	07	58	41	52	64	90	77	99	97	95	100	91	59
	1978	06° 13'LS/112° 40'BT	07	48	55	48	79	63	57	75	84	80	75	68	49
11. Denpasar	1977	08° 40'LS/118° 13'BT	01	56	44	75	91	84	87	95	87	84	83	84	67
	1978	08° 40'LS/118° 13'BT	01	61	65	73	65	74	67	73	66	70	54	74	61
12. Balikpapan	1977	01° 17'LS/118° 51'BT	11												
	1978	00° 01'LS/109° 20'BT	11	64	74	65	79	64	73	66	73	64	58	54	53
13. Pontianak/Supadio	1977	05° 04'LS/110° 32'BT	14												
	1978	05° 04'LS/110° 32'BT	14	48	52	63	61	64	67	55	64	58	58	64	59
14. Ujung Padang/Masauddin	1977	00° 39'LU/122° 50'BT	86	40	30	40	41	60	44	53	66	60	73	60	59
	1978	00° 39'LU/122° 50'BT	86	48	58	42	62	69	60	53	62	56	63	54	45
15. Manado/Mangrove	1977	00° 50'LU/127° 20'BT	33	74	44	67	67	80	47	59	57	75	73	78	62
	1978	00° 50'LU/127° 20'BT	33	61	74	62	69	75	70	53	60	54	62	57	64

Sumber/Source : Pusat Meteorologi dan Geofisika/Meteorological and Geophysical Centre

TABEL : No. KEMEBASAN UDARA RATA-RATA DALAM PERSENTASE, 1977-1978
 TABLE : No. MEAN RELATIVE HUMIDITY IN % CONTAGE, 1977-1978

STASIUN STATION	TAHUN YEAR	LOKASI LOCATION	TINGGI HEIGHT (METER)	BULAN/MONTH												
				JAN JAN	FEB FEB	MARET MARCH	APRIL APRIL	MAY MAY	JUNI JUNE	JULI JULY	AGUST AUGUST	SEPT SEPT	OKT OCT	NOV NOV	DES DEC	
1. Sudeh/Adoh/Siang Simang	1977	06° 30'LU/ 96° 20'BT	20	81	80	79	82	80	80	79	71	72	71	80	82	84
	1978	06° 30'LU/ 96° 20'BT	20	81	81	82	82	78	78	72	75	69	70	83	82	84
2. Medan/Pothona	1977	03° 34'LU/ 98° 40'BT	31	80	82	80	79	78	78	76	74	82	81	85	84	83
	1978	03° 34'LU/ 98° 40'BT	31	81	77	78	79	81	80	80	82	80	82	86	85	85
3. Padang/Tebing	1977	03° 34'LS/100° 22'BT	33	82	82	84	82	82	82	82	81	84	84	85	84	84
	1978	03° 34'LS/100° 22'BT	33	82	82	84	82	84	84	82	83	84	84	85	86	85
4. Paluhbaru/Simbang Tiga	1977	00° 28'LS/101° 20'BT	31	85	85	84	84	84	84	83	81	82	82	81	84	85
	1978	00° 28'LS/101° 20'BT	31	85	85	84	84	84	84	83	81	82	82	81	84	85
5. Jambi/Pai Merah	1977	01° 35'LS/103° 30'BT	10	84	85	84	84	84	84	85	82	81	82	82	84	85
	1978	01° 35'LS/103° 30'BT	10	84	85	84	84	84	84	85	82	81	82	82	84	85
6. Palembang/Talang Betutu	1977	02° 34'LS/104° 42'BT	12	87	87	88	88	87	86	85	82	79	77	83	85	87
	1978	02° 34'LS/104° 42'BT	12	87	87	88	88	87	86	85	82	79	77	83	85	87
7. Bengkulu/Padang Kemiling	1977	03° 43'LS/102° 39'BT	46	87	84	84	86	86	86	84	86	84	86	86	85	85
	1978	03° 43'LS/102° 39'BT	46	87	84	84	86	86	86	84	86	84	86	86	85	85
8. Jakarta/OS	1977	06° 10'LS/100° 49'BT	07	85	85	83	83	78	77	77	74	72	73	75	73	78
	1978	06° 10'LS/100° 49'BT	07	85	85	83	83	78	77	77	74	72	73	75	73	78
9. Bandung/M. Saetjonegara	1977	06° 54'LS/107° 30'BT	743	85	86	86	82	81	81	84	83	69	68	82	79	85
	1978	06° 54'LS/107° 30'BT	743	85	86	86	82	81	81	84	83	69	68	82	79	85
10. Semarang/A. Yani	1977	06° 59'LS/110° 22'BT	03	83	82	84	84	78	76	74	68	72	75	83	81	81
	1978	06° 59'LS/110° 22'BT	03	83	82	84	84	78	76	74	68	72	75	83	81	81
11. Surabaya/Parak	1977	07° 13'LS/112° 49'BT	07	81	83	81	79	76	75	77	69	66	63	68	63	79
	1978	07° 13'LS/112° 49'BT	07	81	83	81	79	76	75	77	69	66	63	68	63	79
12. Denpasar	1977	08° 40'LS/116° 13'BT	01	76	77	77	77	75	74	74	71	71	72	72	73	76
	1978	08° 40'LS/116° 13'BT	01	76	77	77	77	75	74	74	71	71	72	72	73	76
13. Balikpapan	1977	01° 17'LS/116° 51'BT	03	82	85	83	84	81	81	83	85	83	81	82	84	84
	1978	01° 17'LS/116° 51'BT	03	82	85	83	84	81	81	83	85	83	81	82	84	84
14. Ujung Pandang/Masaruudin	1977	05° 04'LS/119° 32'BT	14	86	86	83	83	81	81	81	81	77	76	81	81	85
	1978	05° 04'LS/119° 32'BT	14	86	86	83	83	81	81	81	81	77	76	81	81	85
15. Manado/Mingaput	1977	01° 30'LU/124° 50'BT	80	86	86	84	84	84	84	84	83	70	68	76	78	85
	1978	01° 30'LU/124° 50'BT	80	86	86	84	84	84	84	84	83	70	68	76	78	85
16. Ternate	1977	00° 50'LU/127° 20'BT	33	85	85	83	83	80	80	80	77	77	74	81	81	85
	1978	00° 50'LU/127° 20'BT	33	85	85	83	83	80	80	80	77	77	74	81	81	85

Sumber/Source : Pusat Meteorologi dan Geofisika/Meteorological and Geophysical Centre

TABEL 1.11.6. JUMLAH CURAH HUJAN DARI TEMPAT-TEMPAT TERPILIH
 IN SELECTED PLACE
 (DALAM MM/JN MM)
 1977-1978

STASIUN STATION	TAMUN YEAR	LOKASI LOCATION	TINGGI HEIGHT (METER)	BULAN/MONTH											
				JAN JAN	FEB FEB	MARCH MARCH	APRIL APRIL	MAY MAY	JUNE JUNE	JULY JULY	AUGUST AUGUST	SEPT SEPT	OCT OCT	NOV NOV	DEC DEC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Banda Aceh/Bidang Bireng	1977	09° 30'LU/ 95° 20'BT	20	102	127	92	114	132	93	38	37	159	193	256	270
	1978	09° 30'LU/ 95° 20'BT	20	117	118	166	90	162	69	190	21	171	177	143	257
2. Medan/Polonia	1977	03° 32'LU/ 98° 39'BT	27	53	151	102	68	66	66	27	333	196	506	312	241
	1978	03° 32'LU/ 98° 39'BT	27	117	19	106	123	123	82	222	201	268	466	222	219
3. Padang/Tabing	1977	00° 56'LS/100° 22'BT	03	368	297	106	296	448	182	162	147	267	476	241	434
	1978	00° 56'LS/100° 22'BT	03	465	341	312	207	326	387	467	364	398	694	247	146
4. Pekanbaru/Simpang Tiga	1977	00° 28'LS/101° 24'BT	31	102	349	134	118	163	172	81	156	233	176	360	332
	1978	00° 28'LS/101° 24'BT	31	106	192	374	332	110	206	176	139	132	447	360	332
5. Jambi/Pai Merah	1977	01° 36'LS/103° 36'BT	10	146	221	320	174	132	226	96	82	188	46	86	290
	1978	01° 36'LS/103° 36'BT	10	206	154	172	266	221	96	82	79	166	272	246	286
6. Palembang/Talang Batu	1977	02° 54'LS/104° 42'BT	12	102	146	272	491	282	167	38	66	91	70	404	466
	1978	02° 54'LS/104° 42'BT	12	361	228	286	310	223	146	204	167	146	346	260	263
7. Sampul/Padang Kemiling	1977	03° 43'LS/102° 17'BT	16	967	163	306	303	300	184	97	107	199	113	600	271
	1978	03° 43'LS/102° 17'BT	16	648	243	436	250	156	294	262	223	297	428	337	660
8. Tanjung Karang/Dretil	1977	05° 27'LS/106° 19'BT	10	242	406	219	113	122	130	36	14	46	19	146	463
	1978	05° 27'LS/106° 19'BT	10	92	248	461	81	134	126	163	182	108	132	107	234
9. Jakarta/765	1977	06° 10'LS/106° 40'BT	07	660	622	463	100	40	267	00	36	14	106	71	379
	1978	06° 10'LS/106° 40'BT	07	212	262	274	68	137	167	114	79	100	128	183	264
10. Bandung/H. Sastranegara	1977	06° 54'LS/107° 36'BT	743	181	270	276	340	204	238	20	41	60	68	302	269
	1978	06° 54'LS/107° 36'BT	743	231	114	364	184	266	200	100	96	166	186	299	361
11. Semarang/A. Yani	1977	06° 59'LS/110° 22'BT	03	326	221	601	126	291	139	46	22	22	13	229	238
	1978	06° 59'LS/110° 22'BT	03	536	240	360	136	232	139	76	169	216	223	368	290
12. Yogyakarta/UCH	1977	07° 49'LS/110° 22'BT	137	441	312	266	34	77	99	00	00	00	03	149	197
	1978	07° 49'LS/110° 22'BT	137	364	147	343	174	71	67	00	00	00	00	102	227
13. Surabaya/Pawah	1977	07° 13'LS/112° 48'BT	07	719	490	138	134	108	19	26	60	46	43	86	344
	1978	07° 13'LS/112° 48'BT	07	719	490	138	134	108	19	26	60	46	43	86	344

LANJUTAN/CONTINUED : TABEL/TABLE II.5.

BULAN/MONTH

STASIUN STATION	TAHUN YEAR	LOKASI LOCATION	TINGGI HEIGHT (METER)	BULAN/MONTH											
				JAN JAN	FEB FEB	MARET MARCH	APRIL APRIL	MAY MAY	JUNE JUNE	JULI JULY	AGUST AUGUST	SEPT SEPT	OKT OCT	NOV NOV	DES DEC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14. Denpasar	1977	08° 40'LS/118° 13'BT	01	390	434	211	32	27	06	00	00	27	08	01	275
	1978	08° 40'LS/118° 13'BT	01	450	220	110	68	180	248	16	136	188	162	107	335
15. Surabaya Besar	1977	08° 28'LS/112° 20'BT	03	185	104	228	13	17	06	00	00	00	58	95	448
	1978	08° 28'LS/112° 20'BT	03	323	287	385	101	47	195	06	55	12	23	236	191
16. Kupang	1977	10° 10'LS/122° 40'BT	102	468	582	250	34	01	00	01	00	00	00	17	204
	1978	10° 10'LS/122° 40'BT	102	238	788	116	72	162	95	38	12	02	00	194	282
17. Ohi	1977	08° 34'LS/128° 34'BT	04	287	71	107	80	34	00	00	04	00	00	88	170
	1978	08° 34'LS/128° 34'BT	04	107	127	307	71	66	63	29	23	13	08	333	189
18. Pontianak/Susadio	1977	05° 11'LS/109° 20'BT	03	183	414	288	222	336	201	248	307	187	382	238	987
	1978	05° 11'LS/109° 20'BT	03	126	297	287	421	244	124	241	180	388	332	238	384
19. Banjarmasin	1977	03° 27'LS/114° 49'BT	11	396	418	377	463	164	240	36	126	28	60	287	384
	1978	03° 27'LS/114° 49'BT	11	-	-	-	-	-	-	-	375	37	399	240	184
20. Balikpapan	1977	01° 16'LS/118° 04'BT	03	126	306	116	253	280	191	129	375	37	399	240	184
	1978	01° 16'LS/118° 04'BT	03	283	205	181	231	190	244	306	211	363	268	199	207
21. Menado/Mabangit	1977	01° 58'LU/124° 50'BT	01	386	282	435	171	362	271	200	257	308	108	496	530
	1978	01° 58'LU/124° 50'BT	01	63	47	126	74	20	138	60	129	00	08	05	43
22. Palu	1977	00° 41'LS/119° 44'BT	06	180	36	126	38	27	41	67	96	106	64	66	43
	1978	00° 41'LS/119° 44'BT	06	160	36	126	38	27	41	67	96	106	64	66	43
23. Ujung Pandang/Hassanudin	1977	06° 04'LS/119° 33'BT	14	1066	1151	464	217	248	190	207	35	98	70	274	628
	1978	06° 04'LS/119° 33'BT	14	927	464	424	205	102	287	38	13	342	111	115	113
24. Kendari/W. Manginadi	1977	04° 06'LS/122° 28'BT	90	200	320	441	332	106	00	00	04	02	00	00	120
	1978	04° 06'LS/122° 28'BT	90	199	320	441	332	106	00	00	04	02	00	00	120
25. Ambon	1977	03° 42'LS/128° 09'BT	10	287	71	107	80	34	00	00	04	00	00	78	104
	1978	03° 42'LS/128° 09'BT	10	69	183	134	100	220	283	218	281	164	109	246	345
26. Irian Jaya/Ganyem Blak	1977	01° 11'LS/130° 07'BT	10	474	521	.....	.....	.....	.....	41	103	86	231	242	346
	1978	01° 11'LS/130° 07'BT	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Sumber/Source : Pusat Meteorologi dan Geofisika/Meteorological and Geophysical Centre

TABEL 11.7. KECPATAN ANGIN RATA-RATA DAN KECEPATAN ANGIN TERBESAR CIRIBERAPA TEMPAT TERPILIH
 TABLE 11.7. AVERAGE AND MAXIMUM WIND VELOCITY IN SOME SELECTED PLACES 1978

STASIUN STATION	TINGGI O.P.L. HEIGHT (M)	LOKASI LOCATION	R M	BULAN / MONTH											
				JAN JAN	FEB FEB	MARET MARCH	APRIL APRIL	MAY MAY	JUNI JUNE	JULI JULY	AGUSTUS AUGUST	SEPT SEPT	OKT OCT	NOV NOV	DES DEC
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Daerah Istimewa Aceh	20	05° 30'N / 09° 40'E	R	07	07	06	06	07	09	08	08	08	07	06	07
2. Mertani/Potong	31	03° 34'N / 08° 40'E	M	05	05	05	06	06	05	05	05	05	05	04	04
3. Padang/Talang	03	00° 50'S / 100° 27'E	M	04	04	04	03	04	02	02	02	02	02	02	02
4. Jambi/Pai Merah	10	01° 30'S / 103° 38'E	M	02	01	01	01	01	01	01	01	01	01	01	01
5. Palembang	31	00° 28'S / 101° 20'E	M	06	06	06	06	06	06	06	06	06	06	06	06
6. Palembang	12	02° 34'S / 104° 42'E	M	04	04	04	03	03	03	03	03	03	03	03	03
7. Bengkulu	15	03° 43'S / 102° 17'E	M	04	04	04	04	04	04	04	04	04	04	04	04
8. Tanjung Karang	10	05° 27'S / 105° 18'E	M	05	05	05	05	05	05	05	05	05	05	05	05
9. Bandung/H. Sastranegara	743	06° 19'S / 107° 36'E	M	06	06	06	06	06	06	06	06	06	06	06	06
10. Jakarta/ORS	31	06° 18'S / 106° 54'E	M	04	04	04	04	04	04	04	04	04	04	04	04
11. Semarang/A. Yani	03	06° 58'S / 110° 22'E	M	06	06	06	06	06	06	06	06	06	06	06	06
12. Surabaya/Perak	07	07° 17'S / 112° 45'E	M	06	06	06	06	06	06	06	06	06	06	06	06
13. Yogyakarta/Adenulolo	122	07° 43'S / 110° 26'E	M	04	04	04	04	04	04	04	04	04	04	04	04
14. Pontianak/Supadio	03	06° 01'S / 108° 20'E	M	06	06	06	06	06	06	06	06	06	06	06	06
15. Banjarmasin	11	03° 27'S / 114° 49'E	M	15	15	15	15	15	15	15	15	15	15	15	15
16. Balikpapan	03	01° 17'S / 116° 01'E	M	05	05	05	05	05	05	05	05	05	05	05	05
17. Denpasar	01	08° 40'S / 113° 13'E	M	06	06	06	06	06	06	06	06	06	06	06	06
18. Ujung Pandang	14	05° 01'S / 119° 32'E	M	03	03	03	03	03	03	03	03	03	03	03	03
19. Merauke/Mesanger	80	01° 30'N / 124° 50'E	M	05	05	05	05	05	05	05	05	05	05	05	05
20. NTB/Rembaja	03	08° 32'S / 116° 04'E	M	10	10	10	10	10	10	10	10	10	10	10	10
21. NTT/Kusabiji/Pentui	15	10° 10'S / 123° 24'E	M	05	05	05	05	05	05	05	05	05	05	05	05
22. Maluku/Ternate	33	00° 50'N / 127° 25'E	M	07	07	07	07	07	07	07	07	07	07	07	07

Sumber/Source : Pusat Meteorologi dan Geofisika/Meteorological and Geophysical Centre

2-c. Government Actual Receipts

Realisasi Penerimaan Pemerintah

	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1977
													Scm.4
	(Dalam milyar Rp/ta)												
Penerimaan Dalam Negeri	314	428	550	668	1.158	2.192	2.926	3.335	4.266	6.697	10.221	12.213	2.725
Pajak Langsung	121	181	302	503	1.229	1.592	2.047	2.511	2.955	5.130	8.210	10.100	3.652
Pajak Pendapatan	19	37	24	34	43	62	84	104	122	140	164	207	66
Pajak Pertanahan	20	36	31	44	91	118	137	170	217	237	448	539	110
Pajak Perkeras Jalan	69	113	199	364	973	1.149	1.620	1.919	2.329	4.150	7.020	8.618	1.638
MPO	19	31	30	57	84	97	149	202	233	291	433	513	128
BEDA	--	--	15	20	28	35	43	52	63	72	87	94	34
Lain-lain	--	1	3	6	19	21	35	34	43	62	78	99	16
Pajak tidak langsung	210	247	248	413	658	529	741	881	1.078	1.367	1.601	1.716	612
Pajak Penghasilan	18	24	31	34	43	119	162	203	221	192	166	311	89
Pajak Penghasilan Import	22	23	28	31	49	72	102	115	126	132	135	223	67
Cukai	39	49	47	62	74	97	131	182	233	326	430	511	136
Bea masuk	71	70	73	128	161	174	257	287	295	309	448	536	159
Pajak Denda Ekspor	15	18	13	69	70	62	62	81	104	159	355	139	152
Penerimaan Masyarakat Lainnya	10	28	38	38	15	-1	15	--	--	--	--	--	--
Lain-lain	5	7	7	31	15	16	11	33	17	19	29	33	9
Penerimaan Non-Tax	17	27	34	50	67	111	118	144	192	187	316	327	69
Penerimaan Penunjang	121	133	158	204	232	592	741	773	1.035	1.331	1.434	1.709	620
Bantuan Program	39	90	55	90	35	20	10	35	48	65	61	45	26
Bantuan Proyek	82	43	103	114	195	472	731	738	987	1.266	1.434	1.664	414
JUMLAH	655	583	748	1.122	1.856	2.731	3.670	4.309	5.301	8.078	11.721	13.922	3.355

(Departemen Keuangan)

Government Actual Receipts

1950	1950/1951		1951/1952		1952/1953		1953/1954		
Scm.41	Scm.4	Scm.41	Budget	Scm.4	Scm.41	Budget	Scm.4	Budget	
(In billions of Rp/ta)									
1972	4.727	5.500	12.274	5.923	6.310	13.756	5.695	13.223	Domestic Receipts
1977	3.365	4.645	10.038	4.878	5.272	11.113	4.674	11.033	Direct Taxes
82	33	91	207	58	109	256	135	202	Income Tax
107	179	259	551	297	353	423	264	475	Corporate Tax
1376	3.143	3.772	8.575	4.243	4.365	9.322	3.935	8.639	Corp. Tax Foreign Oil Companies
143	202	138	513	220	233	680	230	312	Withholding Tax
38	65	41	88	47	47	109	43	130	MEDA
35	37	41	97	43	56	123	47	135	Others
758	926	855	2.017	850	926	2.251	822	2.118	Indirect Taxes
103	119	147	294	147	164	442	187	487	Sales Tax
70	91	102	222	110	113	299	116	299	Sales Tax on Import
190	210	228	533	250	254	618	268	618	Excises
158	215	235	539	250	215	678	256	678	Export Duties
237	178	227	381	76	53	170	37	81	Export Taxes, Central Government
--	--	--	--	--	--	--	--	--	Other OR Receipts
10	13	16	28	37	16	61	18	48	Others
127	116	200	219	175	162	392	139	502	Non-Tax Receipts
111	242	259	1.626	764	945	1.851	829	2.182	Development Receipts
39	26	38	65	31	14	25	5	5	Program Aid
472	216	214	1.561	333	931	1.826	824	2.137	Project Aid
1663	1.659	6.252	13.950	6.667	7.255	15.607	4.664	16.555	TOTAL

(Department of Revenue)

2-d. Government Actual Payments

Realized Pengeluaran Pemerintah

	1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80	1980/81	1981/82	1979 Soal
	(Dalam milyar Rupiah)												
Rasio	288	319	428	713	1.016	1.333	1.630	2.219	2.711	4.062	5.800	6.978	1.642
Belanja pegawai/pension	832	163	100	169	420	591	637	873	1.002	1.420	2.033	2.277	631
- Tunjangan Beras	33	32	31	31	59	112	153	126	133	180	251	251	81
- Gaji/gaji dan Pension	79	100	132	174	302	400	425	473	760	1.054	1.433	1.650	356
- Biaya makan/lak/park	12	12	11	12	24	43	45	48	51	110	193	241	44
- Lain-lain belanja pegawai	11	14	17	20	25	19	17	31	36	47	61	80	31
- Belanja pegawai luar negeri	3	3	6	7	19	13	14	15	24	29	34	43	12
Belanja barang	62	67	95	110	173	195	169	372	419	569	671	923	184
- Belanja barang dalam negeri	56	60	83	93	138	143	121	359	398	540	618	871	180
- Belanja barang luar negeri	6	7	12	17	35	52	48	13	21	29	53	52	4
Subsidi subsidi	56	67	41	109	202	245	19	22	27	25	31	42	12
- Irian Jaya	10	10	11	10	11	19	20	22	22	25	31	42	12
- Daerah otonom lainnya	45	56	30	99	188	256	193	451	500	645	692	1.167	342
- Pengalokasian barang	24	47	31	71	74	79	119	210	218	335	484	785	206
- Hutang dalam negeri	2	6	8	8	6	7	11	7	9	36	31	16	3
- Hutang luar negeri	21	41	45	63	67	72	165	221	326	418	551	915	291
- Lain-lain pengeluaran rutin	12	5	5	133	135	71	131	172	266	719	913	1.438	232
- Pengeluaran tahunan yang lain	1	1	5	---	---	16	37	15	---	---	36	81	---
- Pemeliharaan	31	4	---	---	---	50	39	---	41	83	281	220	48
- Subsidi impor pangan	---	---	---	53	140	---	---	65	197	535	1.022	1.316	213
- Subsidi bahan bakar minyak	---	---	---	---	---	---	31	26	16	48	---	---	---
- Subsidi kepada Pertamina	---	---	---	2	4	5	41	6	9	11	6	17	6
- Lainnya	---	---	---	---	---	---	---	---	---	---	---	---	---
Pembangunan	170	198	258	431	952	1.358	2.051	2.157	2.355	4.014	5.315	6.919	1.481
- Departemen/Lembaga	71	81	116	160	222	315	590	745	831	1.354	2.191	2.338	382
- Irian Jaya	5	5	6	7	---	---	---	---	---	175	312	387	119
- Bantuan Pembangunan Daerah	33	37	58	85	158	238	285	356	431	549	608	1.138	227
- Bantuan pembangunan desa	6	5	6	6	11	16	20	23	24	31	51	70	24
- Bantuan pembangunan kabupaten	6	9	13	19	42	59	67	69	71	87	119	163	37
- Bantuan pembangunan Candi-1	21	21	31	21	47	51	41	25	87	101	167	215	51
- Irian Jaya	1	2	3	3	4	5	5	6	6	---	---	---	---
- Pembangunan SD	---	---	---	17	20	30	37	45	112	156	230	314	59
- Pelayanan Kesehatan Puskesmas	---	---	---	---	3	15	21	26	27	39	50	79	6
- Jajanan Pasar	---	---	---	---	---	---	---	1	1	12	3	6	---
- Jajanan Penghijauan & Reboisasi	---	---	---	---	---	---	---	4	4	7	6	7	---
- Jajanan Lain-lain	---	---	---	---	---	---	16	24	35	41	49	70	21
- Jajanan	---	---	---	---	---	---	---	4	4	7	6	7	---
- Jajanan Lainnya	---	---	---	---	---	---	---	---	---	---	---	---	---
- Jajanan Prasarana Jalan	---	---	---	---	---	---	---	---	---	---	---	---	---
- Jajanan pembangunan lainnya	13	11	28	34	155	107	155	308	285	459	1.115	1.417	131
- Subsidi pajak	---	---	---	33	227	331	307	32	83	125	311	371	11
- Penyertaan Modal Pemerintah	---	---	---	41	91	109	218	167	128	233	476	431	48
- Lainnya	12	4	6	10	68	64	80	109	75	231	383	565	26
- Bantuan Proyek	42	43	82	114	195	431	774	738	582	1.315	1.630	1.654	644
JUMLAH	454	515	735	1.154	1.978	2.731	3.681	4.376	5.299	8.076	11.715	17.918	3.126
(Departemen Kerangka)													

Government Actual Payments

1980		1981/1981		1981/1981		1982/1982		1983/1984		
Sch. II	Sch. I	Sch. II	Budget	Sch. I	Sch. II	Budget	Sch. I	Budget		
(In billions of Rupiah)										
2,620	2,652	2,118	2,501	2,615	2,222	2,001	2,041	2,225	Revised Budget	
768	818	5,115	2,811	1,542	1,155	2,492	2,200	2,527	Personnel Expenditures	
139	91	160	229	100	153	225	156	344	Rice Allowance	
558	643	820	1,792	456	404	1,212	836	2,835	Salaries etc.	
64	25	98	246	117	124	268	159	211	Personnel material expenditures	
34	20	41	82	45	34	93	49	93	Other domestic personnel expenditures	
17	10	56	51	23	20	54	20	54	External personnel expenditures	
383	266	455	974	391	332	1,068	369	1,149	Material Expenditures	
359	251	387	550	333	315	1,021	345	1,099	Domestic material Expenditures	
23	15	18	44	16	16	47	24	50	External material expenditures	
311	528	418	1,209	602	607	1,315	552	1,388	Subsidies to regions	
13	18	16	42	20	22	43	19	43	Irian Jaya	
258	510	432	1,167	582	585	1,272	533	1,345	Local Government	
427	358	427	504	382	549	976	386	1,417	Debt repayment	
31	6	25	30	8	8	30	1	30	Internal debt	
446	332	452	934	374	511	946	385	1,387	External debt	
450	612	733	1,922	929	709	1,350	534	724	Other expenditures	
---	---	---	---	---	---	---	---	---	Previous year budget expenditures	
---	---	36	81	81	---	11	---	---	General Services	
85	102	179	310	119	105	183	1	---	Government support subsidy (Rice)	
322	504	518	1,511	727	589	924	513	699	Government subsidy on oil	
41	---	---	---	---	---	---	---	---	Government subsidy to Pertamina	
5	6	---	20	3	14	24	20	25	Others	
2,330	2,590	3,326	6,399	2,118	2,222	4,606	2,611	2,990	Development Budget	
542	835	1,306	2,319	1,122	1,211	3,326	1,662	1,321	Department/Institution	
37	113	153	481	250	337	569	219	374	Armed Forces	
321	416	392	1,127	514	620	1,518	551	1,546	Regional development	
7	27	24	70	35	35	83	40	92	- Development subsidy to villages	
50	63	56	163	70	93	194	71	197	- Development subsidy to districts	
50	11	85	215	106	109	233	122	233	- Subsidies to provinces	
---	---	---	---	---	---	---	---	---	- Irian Jaya	
106	150	120	374	166	208	519	117	519	- Primary schools	
24	27	23	29	30	42	51	25	38	- Public health centres	
11	---	3	6	2	4	11	---	11	- "Iqbal Farm"	
20	26	23	70	30	60	87	31	87	- "Iqbal Terpadu dan Redoan"	
3	3	3	3	3	4	9	2	9	- Iqbal Timor	
31	45	41	88	46	49	109	43	110	- Iqbal - Rural development	
9	12	14	35	24	29	80	30	80	- "Iqbal Pratiara Jalan"	
337	384	761	911	499	511	1,567	687	1,312	Others development expenditures	
107	90	154	314	151	210	461	300	457	- Subsidies on fertilizer	
164	111	154	360	154	327	541	204	498	- Government capital participation	
246	176	209	237	164	381	555	183	337	- Others	
673	715	711	1,551	733	931	1,826	554	2,337	Project aid	
4,950	5,242	6,471	13,900	6,569	7,354	15,607	6,619	16,565	TOTAL	

(Department of Finance)

2-e. Exchange Rates of Selected Currencies and Gold Price in the Jakarta Market

Catatan Kurs beberapa Valuta Asing dan Harga Emas di Jakarta

	1976	1977	1978	1979	1980	1980		1981		1981		
						III	IV	I	II	III	Dec	Jan
(Dalam Rupiah, per 100 mata)												
US Dollar	411,00	421,00	431,44	431,32	433,70	433,20	433,70	432,55	433,65	437,35	443,05	458,00
English Pound	217,50	182,27	1278,88	1.404,88	1.504,40	1.527,10	1.504,40	1.435,10	1.281,00	1.251,40	1.231,90	1.241,23
Australia Dollar	446,25	476,46	450,88	458,61	442,50	339,20	342,90	338,40	324,69	314,30	314,30	319,07
Malaysia Dollar	159,00	178,11	192,25	192,25	191,20	198,10	191,20	202,10	213,53	213,40	217,60	219,61
Hongkong Dollar	90,25	91,00	111,61	111,81	116,60	119,68	116,60	111,10	119,15	111,90	117,43	118,87
Netherlands Guilder	165,25	179,15	309,75	319,75	300,10	315,30	300,10	274,20	243,50	247,50	241,20	263,37
Emas	2.812,50	2.200,00	2.200,00	2.225,00	11.942,00	12.932,00	11.942,00	10.322,00	9.645,00	9.100,00	8.130,00	8.150,00

Exchange Rates of Selected Currencies and Gold Price in the Jakarta Market

1982											
Febr.	Mar.	Apr.	Mei	Juni	Juli	Agust.	Sept.	Okt.	Nov.	Des.	
(In Rupiah, per 100 mata)											
659,12	654,70	655,24	656,56	660,30	633,61	648,03	671,43	680,50	687,90	692,21	US Dollar
1.222,61	1.131,80	1.372,84	1.200,50	1.113,50	1.145,00	1.171,75	1.372,37	1.162,25	1.045,30	1.141,50	English Pound
212,69	201,10	454,38	202,00	641,80	477,00	641,25	648,50	644,81	631,95	672,50	Australia Dollar
219,62	211,40	242,25	217,62	285,50	244,62	267,50	267,62	248,19	233,10	232,25	Malaysia Dollar
114,66	114,35	114,97	116,25	115,60	115,62	115,81	112,25	108,62	106,49	110,00	Hongkong Dollar
211,62	212,35	248,25	256,42	231,30	248,31	248,56	213,37	247,41	241,60	259,00	Netherlands Guilder
2.300,00	2.255,00	2.800,00	2.550,00	6.950,00	7.337,50	2.765,00	9.012,50	8.460,75	8.939,00	9.450,00	Gold

2-f. Crude oil and oil products

Minyak bumi dan hasil hasilnya

	1977	1978	1979	1980	1981 ^a	1981		1982			1983	
						III	IV	I	II	III	Oct	Nov
Produksi												
Minyak mentah ¹⁾	415,1	396,7	310,4	377,0	354,8	166,7	145,1	132,1	115,3	117,5	99,2	97,0
Gas alam ²⁾	342,8	320,1	258,5	1045,7	1.123,7	234,5	227,3	279,3	223,5	219,2	22,7	26,9
Ekspor												
Minyak mentah	484,2	461,9	376,3	361,7	367,2	91,3	90,9	89,4	11,0	71,0	31,5	26,9
Hasil hasil pengolahan	51,4	44,6	53,6	59,5	55,2	13,3	13,0	11,9	12,6	9,7	4,7	4,6
Carbon Black ³⁾	2,1	—	—	—	—	—	—	—	—	—	—	—
Minyak mentah yang diangkut ¹⁾	157,3	152,5	135,0	122,8	127,7	42,6	42,8	43,5	46,7	45,7	17,9	17,7
Hasil pengolahan¹⁾												
Kerosene	30,3	30,0	31,0	34,1	35,8	9,3	9,4	8,3	8,2	8,3	3,4	3,1
Wax residue	11,5	10,7	14,6	55,7	51,8	11,1	13,6	12,5	11,6	11,7	5,1	6,3
Minyak diesel	27,4	30,1	33,9	34,2	32,1	8,0	8,5	8,0	8,5	9,1	2,8	3,0
Minyak bakar	21,0	26,1	18,1	18,9	20,9	5,7	5,5	4,2	5,0	4,8	2,2	1,5
Bitumen	15,7	17,7	19,5	23,9	24,9	6,9	6,0	4,0	4,0	3,8	2,1	2,4
Lain-lain	13,7	13,3	14,8	11,6	12,8	5,7	5,6	4,6	4,9	5,8	1,9	1,4
Digunakan sendiri untuk pengolahan dan pengangkutan	3,7	3,6	4,1	7,4	5,4	1,1	1,2	1,9	2,5	2,2	0,4	0,4
Keperluan dalam negeri¹⁾												
Hasil hasil pengolahan	89,7	115,5	127,8	141,8	156,0	39,0	40,9	38,5	39,1	42,8	12,6	13,2

Catatan : Dalam jumlah minyak yang diangkut termasuk pengolahan di luar negeri

- 1) Dalam jutaan barel.
- 2) Dalam jutaan mscf.
- 3) Dalam jutaan Bt.

(Department of Petroleum & Energy / Dir. Jen. Kijang)

Crude oil and oil products

1982											
Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	
48,9	45,1	42,4	45,6	37,1	38,7	39,5	42,3	39,9	37,3	40,8	Production
160,6	157,7	172,8	161,6	157,7	144,1	117,7	55,3	55,3	44,4	27,9	Crude oil ¹⁾
											Natural gas ²⁾
32,6	33,9	25,7	11,8	22,7	24,7	23,6	24,8	22,4	24,2	23,8	Exports ¹⁾
3,7	4,6	2,7	1,6	5,1	3,8	3,7	2,8	2,7	4,2	3,4	Crude oil
—	—	—	—	—	—	—	—	—	—	—	Refined products
14,6	11,1	13,2	16,7	15,3	16,8	14,6	16,5	15,6	12,6	14,7	Carbon Black ³⁾
											Refinery Input ¹⁾
2,9	2,7	2,6	3,0	2,8	2,9	2,5	3,0	2,7	2,6	2,6	Refinery Output ¹⁾
1,0	4,3	3,8	4,4	4,3	3,5	3,1	4,3	4,0	3,4	3,5	Kerosene
2,7	2,6	2,3	3,1	2,9	2,8	3,0	3,2	3,1	2,8	3,0	Wax residue
1,8	1,3	1,3	1,6	1,6	1,9	1,5	1,8	1,7	1,3	1,5	Gas oil
1,5	1,4	1,3	1,5	1,4	1,3	1,3	1,4	1,3	1,1	1,3	Fuel oil
1,3	1,4	1,4	1,8	1,6	1,5	1,8	1,9	2,0	1,9	2,1	Others
0,4	0,4	0,7	0,3	0,9	0,9	0,7	0,9	0,8	0,5	0,7	Losses and fed for refineries
10,1	12,6	12,4	13,5	11,0	12,7	13,4	13,4	13,8	13,6	—	Domestic sales ¹⁾
											Refined products

Note : In the refinery input figures including processing abroad.

- 1) In million barrels.
- 2) In million mscf.
- 3) In million Bt.

(Department of Mining & Energy / Directorate of Petroleum & Natural Gas)

2-g. Consumer Price Index for Indonesia (Composite of 17 Cities)

Indeks Harga Konsumen Indonesia (Gabungan 17 Kota)

	1979		1980				1981				
	Mar.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Nov.	Dec.
a) April 1977 / Maret 1978 = 100											
Makanan	120,65	141,14	144,81	151,31	155,33	165,67	172,60	174,35	177,38	178,48	179,34
Pemukiman	120,81	140,86	145,70	161,51	164,23	168,74	171,81	175,26	178,31	180,26	182,26
Sandang	116,63	164,19	171,82	178,85	183,48	180,89	182,82	189,43	197,18	198,38	198,19
Aspek barang dan jasa	119,14	137,29	139,58	151,27	156,17	159,09	161,88	163,47	166,70	168,69	168,74
INDEXES UMLUM	122,77	142,07	143,14	160,21	160,78	167,55	172,11	174,72	177,49	178,91	179,22
b) Persentase perubahan											
Makanan	--	0,97	-0,28	1,31	-0,52	0,06	0,93	0,16	-3,58	-1,03	0,18
Pemukiman	--	0,59	1,11	2,16	1,37	0,60	0,27	0,74	-0,01	0,27	1,11
Sandang	--	2,83	0,21	1,37	0,32	0,27	0,23	0,38	0,54	0,07	-0,10
Aspek barang dan jasa	--	0,10	0,35	0,81	0,31	0,17	0,15	0,12	0,17	0,23	0,01
INDEXES UMLUM	--	0,87	0,77	1,49	0,36	0,26	0,70	0,22	-0,19	-0,32	0,51

1) Indeks Harga Konsumen Indonesia digunakan sejak bulan Maret 1979 untuk menggantikan Indeks Biaya Hidup di Jakarta, sebagai pengukur perkembangan biaya hidup di Indonesia (lihat penjelasan halaman 156 dan 157).

(Data from Statistik)

Consumer Price Index for Indonesia (Composite of 17 Cities)

	1982										
	Jan.	Febr.	Mar.	Apr.	Mei	Jun.	Juli	Agust.	Sept.	Oktr.	Nov.
a) April 1977 / March 1978 = 100											
184,48	183,22	183,38	182,45	182,25	183,42	184,47	183,76	184,29	183,24	180,41	Foodstuffs
194,84	191,81	190,32	190,71	191,27	191,81	191,97	193,21	194,96	197,99	198,90	Housing
189,53	200,24	200,27	200,44	200,88	202,83	204,14	203,81	204,44	204,79	195,68	Clothing
181,92	183,69	183,50	184,59	184,83	184,93	184,43	187,49	187,23	189,81	189,33	Miscellaneous
188,28	187,29	187,83	187,52	187,85	189,49	192,60	191,72	193,41	195,10	195,66	GENERAL INDEX
b) Percentage change											
2,87	-0,11	-0,19	-0,51	+0,16	+0,37	+1,66	-1,45	+1,34	+1,58	+0,12	Foodstuffs
4,51	1,83	+0,76	+0,29	+0,28	+0,37	+0,64	+0,12	+0,66	+1,18	+0,24	Housing
0,89	0,13	+0,01	+0,04	+0,22	+0,37	+1,04	-0,16	+0,33	+0,13	+0,11	Clothing
7,49	0,97	+0,11	+0,18	+0,13	+0,05	+0,31	+0,57	+0,13	+0,63	+0,17	Miscellaneous
4,20	0,54	+0,18	-0,06	+0,18	+0,33	+1,11	-0,66	+0,77	+1,21	+0,28	GENERAL INDEX

1) The Consumer Price Index for Indonesia has been used commencing from March 1979 to replace the Jakarta Cost of Living Index, to measure the trend of cost of living in Indonesia (see explanatory notes on page 156 and 157).

(Central Bureau of Statistics)

2-h. Consumer Price Index for Jakarta

Indeks Harga Konsumen di Jakarta

	1979		1980				1981				
	Mar.	Dec.	Mar.	Jun.	Sept.	Dec.	Mar.	Jun.	Sept.	Nov.	Dec.
a) April 1977 / Maret 1978 = 100											
Makanan	114,84	117,77	119,20	144,08	145,56	151,69	160,22	161,69	161,98	161,73	161,02
Pencelakan	110,50	110,72	143,97	158,85	160,16	160,77	164,61	169,94	168,24	171,97	173,39
Sudung	133,72	160,44	178,06	178,84	183,99	184,49	185,14	185,52	185,49	185,07	186,32
Anda barang dan jasa	117,01	121,06	131,83	142,74	144,81	144,91	145,83	146,81	148,41	149,17	149,17
INDEKS UMUM	118,64	129,83	142,02	151,49	153,32	156,41	160,33	162,00	162,10	164,65	165,73
b) Persentase perubahan											
Makanan	--	0,81	-1,37	1,69	-1,95	-0,24	1,69	0,42	-1,21	-1,43	0,18
Pencelakan	--	0,11	1,35	-1,13	1,77	-0,43	1,22	0,97	0	0,50	1,99
Sudung	--	2,31	1,11	0,39	0,33	0	0,13	0,05	0,06	0,20	0,58
Anda barang dan jasa	--	--	1,16	1,14	0,06	0,15	0,08	0,09	0,61	0	0
INDEKS UMUM	--	0,74	0,21	1,84	-0,19	-0,28	1,05	0,41	-0,35	-0,39	0,66

1) Indeks Harga Konsumen (IHK) di Jakarta mulai digunakan sejak bulan Maret 1979. Indeks tersebut merupakan salah satu dari IHK di 17 kota yang digunakan untuk menghitung IHK Indonesia (lihat penjelasan pada halaman 156 dan 157).

(Data Pusat Statistik)

Consumer Price Index for Jakarta

	1981										
	Jan.	Febr.	Mar.	Apr.	Mei	Jun.	Juli	Agust.	Sept.	Okta.	Nov.
a) April 1977 / March 1978 = 100											
148,06	147,32	160,34	168,42	169,60	168,83	171,76	168,17	161,92	169,84	170,21	Foodstuffs
158,39	191,92	194,34	194,34	194,61	195,59	195,69	198,23	198,00	201,49	202,24	Housing
185,81	185,82	185,82	185,82	186,61	187,90	189,05	188,89	188,89	189,23	189,23	Clothing
159,65	161,35	161,41	161,41	161,52	161,61	161,76	163,29	163,29	164,87	164,87	Miscellaneous
133,75	134,74	135,59	135,53	136,52	136,62	137,56	137,00	137,39	139,52	139,83	GENERAL INDEX
b) Percentage change											
1,09	-0,55	+0,83	-0,07	+0,70	-0,45	+1,74	-1,09	-0,15	+1,14	+0,22	Foodstuffs
7,41	1,87	+1,26	--	+0,14	+0,50	+0,50	+0,28	+0,90	+3,74	+0,37	Housing
0,31	0,01	--	--	-0,11	+0,69	+0,41	-0,08	0	+0,18	0	Clothing
2,83	1,07	+0,03	--	+0,7	+0,65	+0,11	+0,93	0	+0,92	0	Miscellaneous
4,14	0,57	+0,72	-0,02	+0,77	+0,05	+0,76	-0,34	+0,22	+1,20	+0,20	GENERAL INDEX

1) The Jakarta Consumer Price Index (CPI) has been used commencing from March 1979. The Index is one of the CPI in 17 cities used to calculate the CPI for Indonesia (see explanatory notes on page 156 and 157).

(Central Bureau of Statistics)

2-i. Cost of Living Index in Jakarta

Indeks Biaya Hidup di Jakarta¹⁾

	1973	1974	1975	1976	1977	Jan.	Febr.	Mar.	Apr.	Mei
	(Rata-rata tahunan/Annual average)					Jan.	Febr.	Mar.	Apr.	Mei
a) April 1977/March 1978 = 100										
Makanan	42,40	59,50	72,73	88,34	97,53	103,35	103,25	104,04	106,67	103,69
Pemukiman	43,67	52,94	66,42	83,20	97,61	103,03	104,00	104,14	104,14	104,25
Pakaian	51,16	70,01	80,26	88,35	98,43	101,74	105,76	102,13	103,14	103,23
Lain-lain	45,78	67,91	77,41	88,07	97,59	102,94	103,02	103,02	103,39	103,64
INDEKS UMUM	43,22	61,61	73,35	87,91	97,62	103,05	103,45	103,72	105,58	105,06
b) Persentase perubahan										
Makanan	43	41	21	22	11	--	--	0,2	2,5	-0,9
Pemukiman	13	11	25	35	17	0,2	0,8	0,1	--	0,2
Pakaian	17	37	15	13	9	--	--	0,4	1,0	0,1
Lain-lain	13	48	14	14	11	0,3	0,1	--	0,4	0,2
INDEKS UMUM	21	41	19	20	11	0,1	0,1	0,6	1,8	-0,3

1) Indeks Biaya Hidup di Jakarta hanya dihitung sampai dengan bulan Maret 1978. Dan sesudah itu digantikan Indeks Harga Konsumen di Jakarta. (lihat penjelasan pada halaman 146 dan 151).
(Data Pusat Statistik).

Cost of Living Index in Jakarta¹⁾

1978							1979			
Jan.	Feb.	Agust.	Sept.	Oktr.	Nov.	Des.	Jan.	Febr.	Mar.	
a) April 1977/March 1978 = 100										
103,48	104,72	106,21	104,29	104,92	107,44	107,40	110,51	113,94	116,31	Foodstuffs
103,27	105,27	105,23	105,23	105,69	105,69	105,69	106,53	107,14	107,27	Housing
103,27	103,27	105,12	105,12	105,22	107,74	110,43	114,66	117,24	118,44	Clothing
104,02	104,34	109,43	109,70	111,27	114,90	118,11	122,58	123,06	123,17	Miscellaneous
103,71	105,35	106,70	105,43	106,16	108,68	109,85	112,68	115,32	115,95	GENERAL INDEX
b) Percentage change										
-2,1	1,20	1,4	-1,2	0,6	2,4	0,3	2,5	3,1	0,3	Foodstuffs
0,4	--	--	--	0,4	--	--	0,2	0,6	0,1	Housing
--	--	1,8	--	--	2,4	2,5	3,3	2,8	1,0	Clothing
0,4	4,4	5,0	0,1	1,4	3,3	3,4	3,1	0,4	0,1	Miscellaneous
-1,2	1,6	1,2	-1,2	0,7	2,4	2,1	2,6	2,3	0,3	GENERAL INDEX

1) The Jakarta Cost of Living Index was calculated only through March 1978, and was thereafter replaced by the Jakarta Consumer Price Index. (See explanatory notes on page 154 & 155).
(Central Bureau of Statistics).

2-j. Selected Agricultural Production

Produk Pertanian Terpenting Selected Agricultural Production

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980 ¹⁾	1981 ²⁾	
	(Ribu ton/Thousands of tons)											
P.S. 1)	26 392	25 331	26 091	29 376	29 201	30 470	30 331	33 302	34 369	31 373	32 861	Paddy 1)
Beras	(13 721)	(13 183)	(14 607)	(15 276)	(15 383)	(15 876)	(15 876)	(17 315)	(17 872)	(20 163)	(21 281)	Rice
Jagung	2 656	2 251	3 670	3 011	2 903	2 572	3 143	4 029	3 656	3 991	4 066	Corn
Ubi jaya	10 650	10 385	11 114	13 031	12 546	12 191	12 443	12 902	13 751	13 326	14 128	Cassava roots
Ubi jalar	2 211	2 065	2 387	2 469	2 433	2 331	2 460	2 083	2 194	1 079	2 242	Sweet potatoes
Kacang tanah	241	222	290	307	330	341	409	416	424	470	503	Ground nuts
Kacang kedelai	516	518	544	589	570	522	523	617	689	633	778	Soya beans
Karet	858	858	845	817	782	856	838	854	878	1 002	1 045	Rubber
- Rakyat	(572)	(559)	(559)	(571)	(536)	(610)	(584)	(612)	(616)	(705)	(740)	- Smallholder
- Perkebunan	(282)	(249)	(245)	(246)	(246)	(246)	(254)	(242)	(262)	(297)	(306)	- Estate
Kopi	156	214	150	149	160	151	197	223	221	215	255	Coffee
- Rakyat	(178)	(186)	(140)	(132)	(144)	(178)	(181)	(206)	(209)	(266)	(276)	- Smallholder
- Perkebunan	(18)	(19)	(10)	(17)	(16)	(16)	(16)	(17)	(19)	(19)	(19)	- Estate
Teh	71	51	67	65	70	73	76	91	115	156	109	Tea
- Rakyat	(24)	(7)	(14)	(14)	(14)	(33)	(14)	(17)	(37)	(21)	(22)	- Smallholder
- Perkebunan	(47)	(44)	(53)	(51)	(56)	(60)	(62)	(74)	(78)	(85)	(87)	- Estate
Gula	1 041	1 135	1 009	1 237	1 227	1 321	1 418	1 516	1 601	1 83	1 913	Sugar
- Rakyat	(211)	(247)	(199)	(250)	(223)	(267)	(352)	(485)	(458)	(749)	(859)	- Smallholder
- Perkebunan	(830)	(886)	(810)	(987)	(1 004)	(1 054)	(1 066)	(1 031)	(1 143)	(1 082)	(1 104)	- Estate
Kopi	1 169	1 311	1 237	1 341	1 375	1 532	1 518	1 575	1 532	1 539	1 812	Cocoa
Tembakau Rakyat	62	74	49	67	74	70	72	60	73	101	103	Smallholder's Tobacco
Kayuhuruk	243	269	219	318	397	431	485	532	642	701	743	Palm Oil
Kayu 2)	19 217	17 217	25 850	23 220	16 274	21 427	22 939	31 054	26 437	21 740	15 954	Logs 2)

1) P.S. pengalihan

Kontribusi pengalihan P.S. kepada P.S.N.

2) Dalam ribuan m³

(Lampiran Pelita Keperluan Presiden RI, Agustus 1974,
1979, 1981 dan 1982.

- Departemen Pertanian

1) Dry stalk paddy

Conversion factor dry stalk paddy to rice is 57%

2) In thousand m³

(Attachment to the Speech of the President RI, August 1974,
1979, 1981 and 1982

- Department of Agriculture

2-k. Selected Industrial Production

Produk Perindustrian Terpencil Selected Industrial Production

		1976/77	1977/78	1978/79	1979/80	1980/81	1981/82 ¹⁾	Unit	
Tekstil	juta meter	1 247,0	1 332,5	1 574,0	1 910,0	2 027,3	2 054,0	million meters	Textiles
Berang serova	'000 bal	472,9	678,3	837,3	978,0	1 184,0	1 233,0	'000 bales	Yarn
Pupuk Urea	'000 ton	404,0	590,0	1 432,2	1 817,0	1 945,1	2 006,7	'000 tons	Fertilizer (Urea)
Pupuk ZA	'000 ton	105,2	97,3	101,0	147,9	160,3	155,1	'000 tons	Fertilizer (ZA)
Semen	'000 ton	1 979,3	2 478,6	3 619,0	4 705,1	5 831,1	6 446,2	'000 tons	Cement
Kertas	'000 ton	54,4	81,5	151,2	214,2	312,0	245,6	'000 tons	Paper
Garam	'000 ton	560,0	765,0	2 418,1 ¹⁾	2 013,0	670,0	283,8	'000 tons	Salt
Ban bus kendaraan bermotor	'000 buah	1 813,3	2 312,1	2 542,4	2 874,4	3 120,0	3 816,9	'000 pieces	Motor car tires
Ban bus sepeda motor	'000 buah	1 520,0	2 426,6	1 658,2	2 070,5	2 319,7	2 801,3	'000 pieces	Motor cycles tires
Minyak kelapa	'000 ton	274,2	316,3	319,1	431,0	610,0	480,0	'000 tons	Cocconut oil
Minyak goreng	'000 ton	31,6	31,5	37,8	266,2	278,9	324,4	'000 tons	Vegetable oil
Deterjen	'000 ton	33,4	35,5	44,2	46,5	51,4	63,9	'000 tons	Detergent
Relak kretek	juta batang	37 960,0	43 800,1	41 500,0	61 500,0	59 500,0	55 000,0	million pieces	Clove cigarettes
Relak putih	juta batang	21 437,0	23 100,0	25 700,0	28 600,0	31 400,0	28 400,0	million pieces	White cigarettes
Besi beton	'000 ton	296,1	240,0	300,0	500,0	640,5	671,0	'000 tons	Reinforcing iron
Kawat baja	'000 ton	24,6	58,0	100,0	106,0	143,2	159,7	'000 tons	Wire steel
Plat besi	'000 ton	158,0	185,0	185,0	250,0	284,2	301,6	'000 tons	Galvanized iron sheet
Pipa baja	'000 ton	107,0	120,0	118,3	129,5	153,8	241,0	'000 tons	Steel pipe
Mesin diesel	'000 buah	24,0	35,3	39,4	35,0	34,1	69,1	'000 units	Diesel engines
Mobil	'000 buah	73,3	83,9	108,7	107,6	170,1	209,9	'000 units	Automobiles
Sepeda motor	'000 buah	247,6	271,2	330,5	221,6	410,0	503,1	'000 units	Motor cycles
Baterai kering	juta buah	31,0	34,9	31,0	34,5	43,9	27,0	million pieces	Dry batteries
Televisi	'000 buah	212,8	492,0	232,2	459,0	230,1	846,9	'000 units	T.V. sets
Radio	'000 buah	1 100,0	1 000,0	1 535,0	1 011,8	1 110,5	1 154,9	'000 units	Radio sets
Lampu pijar TL	juta buah	16,0	21,8	30,4	29,9	33,8	36,5	million pieces	Light bulbs
Kulkas es	'000 buah	50,0	65,0	90,0	97,4	114,5	138,5	'000 units	Refrigerator
Kapal terbang	buah	3,0	7,0	16,0	16,0	17,0	17,0	unit	Aircrafts
Helikopter	buah	13,0	6,0	16,0	16,0	12,0	12,0	unit	Helicopters
Mesin jahit	'000 buah	400,0	414,0	600,0	477,6	511,4	551,6	'000 units	Sewing machines

1) Tidak termasuk garam rakyat.
(Tidak termasuk garam rakyat)
(Departemen Perindustrian)

*) Angka-angka sementara.

1) Exclude small scale industry.
(The exclusive of small President Speech)
(Department of Industry)

*) Provisional figures.

2-1. Financing of Government Development Expenditures in the Five Year Development Plan III

Sumber Pembiayaan dan Pengeluaran Pembangunan Pemerintah dalam REPELITA III

	1979/1980		1980/1981		1981/1982	
	REPELITA	Realisasi / Realisation	REPELITA 1)	Realisasi / Realisation	REPELITA 1)	Realisasi / Realisation
(Dalam milyar Rupiah)						
Sumber Pembiayaan						
Tabungan Pemerintah	1.974	2.433	2.245	4.427	2.310	3.235
Bantuan Luar Negeri	1.434	1.311	1.647	1.454	1.849	1.709
Jumlah Dasar Pembangunan Pemerintah	3.408	4.015	3.892	5.881	4.159	4.944
Pengeluaran Pembangunan Pemerintah						
Sektor:						
Pertanian dan Perikanan	419	508	...	929	...	553
Perindustrian	402	356	...	415	...	524
Pertambangan dan Energi	393	376	...	507	...	828
Pembangunan dan Pemukiman	511	455	...	760	...	826
Ternak, Kuda dan Transmigrasi	166	161	...	326	...	417
Pembangunan Daerah, Desa dan Kota	330	336	...	452	...	616
Produksi, Gerakan Massa, Kebudayaan Nasional dan Kepertanian terhadap Tahun Yang Maha Esa	356	352	...	535	...	726
Kesehatan, Kesejahteraan Sosial, Peranan Wanita, Kependudukan dan Keluarga Berencana	133	142	...	218	...	255
Pemerintahan Rakyat dan Pemukiman	78	117	...	191	...	456
Perhubungan dan Keamanan Nasional	254	310	...	479	...	556
Ilmu, Perpetualan, Teknologi dan Pendidikan	58	58	...	87	...	99
Pengembangan Danau, Uluah Sumber Air dan Lingkungan Hidup Lain-lain	69	426	...	319	...	370
132	131	...	143	...	185	
196	314	...	390	...	377	
Jumlah	3.408	4.014	3.892	5.916	4.350	6.172

1) Pengeluaran tidak dipinjam

(Appendix)

(Disajikan Kerangka)

Financing of Government Development Expenditures in the Five Year Development Plan III

1982/1983		1983/1984		Jan/84 / Total		
REPELITA 1)	APBN / Budget	REPELITA 1)	APBN / Budget	REPELITA	Realised & APBN / Realisation & Budget	
(in Billions of Rupiah)						
2.359	6.355	3.106	...	12.612	19.612	Source of Financing
2.019	1.831	2.237	...	9.237	6.433	Government Savings
4.378	8.606	5.343	...	21.849	26.047	Foreign Aid
						Total Government Development Funds
						Government Development Expenditures
						Sectors:
...	9.233	...	...	3.049	3.643	Agriculture and Irrigation
...	366	...	...	1.176	1.665	Manufacturing Industry
...	938	...	...	2.948	2.649	Mining and Energy
...	1.098	...	...	3.384	3.150	Communication and Tourism
...	606	...	...	1.241	5.511	Manpower and Transmigration
...	741	...	...	2.143	2.175	Regional, Rural and Urban Development
						Education, Youth, National Culture and Belief in the Almighty
...	1.302	...	...	1.273	2.555	Go &
						Health, Social Welfare, Role of Women, Population and Family
...	322	...	...	829	958	Planning
...	281	...	...	532	733	People's Housing and Settlement
...	569	...	...	1.416	1.944	National Defence and Security
...	122	...	...	447	362	Science, Technology and Research
...	265	...	...	370	1.510	Business Development
...	220	...	...	197	673	Natural Resources and Environment
...	323	...	...	1.268	1.504	Others
4.278	8.626	5.343	...	21.849	26.046	Total

1) Expenditures not specified.

(Approved)
(Ministry of Finance)

3-a. Chart of Organization and Function for Veterinary Assay Laboratory

Division	Function (Kind of Tests)	Kind of Products	Lots to be Assayed per Year	Experimental Animals to be Required per Lot	Personnel Allocation
A. Assay Laboratories					
I. Bacteriological Assay					
1. General assay and bacteriological assay.	1. Property test	All of biological products			Vet. 3
	2. Preservative content test	Filled vaccine, immune serum			Pharm. 1
	3. Vacuum extent test	Freeze-dried biological products			Techn. 3
	4. Moisture content test	- do -			
	5. Sterility test	Most of vaccine, anti-biotics, immune serum and thickest antigen.			
	6. Bacteriological test (I, II, III)	Fowl pox, ND for drinking or nasal use.			
	7. Purity test	All of biological products.			
	8. Protein content test	Some purified vaccine.			
2. Bacteriological assay	1. Safety test	1. Anthrax V.	2	- guinea pig 20, goat 2	Vet. 2
	2. Toxin inactivation test	2. Brucellosis V.	2	- guinea pig 10,	Techn. 2
	3. Potency test	3. Paenobacillus Septicemia V.	4	- rabbit 45, cattle 7, mice 525	
		4. Swine erysipelas V.	2	- mice 20	
		5. Leptospirosis V.	2	- mice 5, dog 5 guinea pig 12, hamster 20	
		6. Blackleg V.	1	- mice 40, guinea pig 2	
		7. Tetanus toxoid V.	1	- mice 60, guinea pig 1	
3. Diagnostics and immune serum assay	1. Potency test	1. Antigen Pullorum	4	Standard serum, normal chicken 10	Vet. 2
	2. Safety test	2. Mycoplasma gallisepticum antigen	3	Standard serum, normal chicken 10	Techn. 3
		3. Identity test	3. Brucella antigen R.B.	2	Standard serum
	4. Specificity test	4. Brucella antigen SAT	2	Standard serum	
		5. Fascioliasis antigen	1	(Cattle 15)	
		6. Tuberculin	4	mice 5, guinea pig 2, sensitized guinea pig 25 (Borse)	
		7. Mallein	2		
		8. Fluorescein labelled antibody	6	* immune serum	
		9. Anti Distemper-Hepatitis serum	3	mice 5, guinea pig 2	
		10. Anti Anthrax serum	2	mice 20, guinea pig 10	
		11. Anti Tetanus serum	2	mice 20, guinea pig 2	
		12. HI antigen for ND and Coryza	14	*Standard serum	
II. Viral Assay					
1. Viral vaccine assay (used for cattle, pig, dog and cat).	1. Safety test	1. Foot and Mouth disease V.	2	rabbit 15, guinea pig 25, (Cattle 3)	Vet. 2
	2. Potency test	2. Rabies V.	40	guinea pig 20, mice 10	Techn. 6
		3. Virus content test	3. Canine distemper V.	10	dog 2
	4. Adventitious virus negation test	4. Canine Infectious hepatitis V.	5	dog 2, mice 20	
		5. Canine D.W. and D.W.T. V.	5	dog 2	

Division	Function (Kind of Tests)	Kind of Products	Lots to be Assayed per Year	Experimental Animals to be Required per Lot	Personnel Allocation
2. Viral live vaccine assay (used for poultry)	5. Identity test	6. Canine parvovirus infection V. 7. Feline parvovirus infection V. 8. Bot cholera V. 9. I.B.V. V.	4 2 2 4	dog 2 cat 2 pig 4 cattle 2	
	1. Safety test 2. Potency test 3. Virus content test 6. Adventitious virus negation test 5. Identity test	1. Newcastle disease V. 2. Marek's disease V. 3. Fowl pox V. 4. Avian encephalomyelitis V. 5. Avian bronchitis V. 6. Laryngotracheitis V. 7. Bursal disease V. 8. Egg drop syndrome V. 9. Avian diptheri V.	150 30 20 10 18 10 20 16 12	chicken 40, chick embryo 15 chick embryo (SPF) 12, day-old-chick (SPF) 25 chicken 10 day-old-chick 10, chick embryo 20 chicken (SPF) 20, chick embryo (SPF) 30 chick embryo (SPF) 20 + 25 chicken (SPF) 25 chicken (SPF) 20, chick embryo (SPF) 10 chicken 4, SPF 25	Vet. 2 Techn. 4
3. Killed viral, vaccine assay (used for poultry)	1. Safety test 2. Potency test 3. Identity test 4. Virus inactivation test	1. Newcastle disease, killed V. 2. Bursal disease, killed V. 3. Fowl cholera V. 4. Infectious coryza V. 5. Coccidiosis V. 6. CD V.	30 20 10 10 5 5	chicken 15 chicken (SPF) 20 chicken 6 chicken 15 chicken 10 chicken 10	Vet. 2 Techn. 4
III. 1. Antibiotics Assay	1. Property test 2. Potency test 3. Identity test	Ampicillin, Chloramphenicol Oxlotetracycline, Cloxacillin Colistin, Dicloxacillin Dibydro-streptomycin, Doxycycline, Erythromycin, Famoxycillin, Lisibomycin, Kasacin, Novobiocin, Nacitracle, Virginiamycin, Flavoprophospholipol, Oxytetracycline, Penicillin, Spectinomycin, Spiramycin, Streptomycin, Tetracycline, Tiamulin, Tylosin	800	5 mice (for injection)	Vet. 2 Pharm. 1 Techn. 4
2. Pathological Assay	1. Toxicity negation test 2. Residue chemical analysis	All kind of antibiotics and killed adjuvant vaccine Meat, milk and eggs			Vet. 3 Techn. 3

Division	Function (Kind of Tests)	Personnel Allocation
I. SUPPORTING		
I. Administration		
1. General affairs		4 official
2. Personnel affairs		2
3. Finance and accountants		3
4. Supply	1. Supply of equipment expendable goods 2. Electricity, water, gas 3. Maintenance of facilities and equipment	3
5. Assay affairs	1. Check of sample number, indication 2. Check of assay fee V 3. Distributing samples to each assay laboratories 4. Notice of assay results 5. Issue of certification	3
II. Technical Extension Service		
1. Technical training	1. Planning and administration of technical training 2. Coordination of assay activities and research works. 3. Supply and distribution of standard or reference strains and preparations. 4. Claim settlement. 5. Library	3 (1 vet. 1 librarian 1 techno.)
III. Technical Outfit		
1. Experimental animals	1. Production of small experimental animals (mice, guinea pig, rabbit) 2. Management and breeding of experimental animals under testing (chicken, mice, guinea pig). 3. Processing of waste water 4. Incineration of waste	11 (1 vet. 7 worker)
2. Medium and glassware preparation	1. Medium and buffers for bacteriological, virological and serological assay 2. Sterilization and washing of glassware	8 techno.
3. Workshop		2 techno.

Total NYAL Indonesia

Veterinarian	19
Pharmacist	2
Technician	44
Administrative staff	15
Others	8
Total	88

3-b. Recruitment Schedule of Veterinarians

RECRUITMENT SCHEDULE OF VETERINARIANS
VETERINARY ASSAY LABORATORY

August 1983	:	4 Veterinarians
		- Dr. Ida Lestari
		- Dr. Agung
		- Dr. Diana A.
		- Dr. Sumadi
June 1984	:	3 Veterinarians
		- Dr. Syamsul Bahri Siregar MSc.
		- Dr. Rusmar Abas
		- Dr. Mastur M. Noor
December 1984	:	4 Veterinarians
June 1985	:	5 Veterinarians
December 1985	:	2 Veterinarians
Total	:	18 Veterinarians

3-c. Kinds and Numbers of Lots of Biological Products to be Assayed.

	Kind	Number of Lots
Vaccines for bovine	6	15
for equine	1	1
for swine	2	4
for canine	5	66
for feline	1	2
for avian(Killed)	6	130
for avial (live)	9	286
T o t a l	30	504
Anti serum for bovine	1	2
for equine	1	2
for canine	1	3
T o t a l	3	7
Diagnostics for bovine	4	9
for equine	1	2
for avian	4	27
T o t a l	9	38
T O T A L		549

3-d. Operation Budget and Maintenance System

1. MAINTENANCE

Building and Equipment = 4000 x 300 x Rp.10,- = Rp. 12.000.000,-

2. PERSONNEL

a. Vet/Pharm/Adm.of/Acc : 26 x 12 x Rp.150.000,- =Rp. 46.800.000,-

b. Vet.Ass/Lab.Ass/Tech/Clerk/Typist/
: 47 x 12 x Rp.100.000,- =Rp. 56.400.000,-

c. Driver/Worker : 14 x 12 x Rp-50.000,- =Rp. 8.400.000,-

Rp.111.600.000,-

3. MANAGEMENT FOR ANIMALS

a. SPF eggs = 6000 x Rp. 1.000,- Rp. 6.000.000,-

b. Experimental Animals for Use :

Rat = 400 x Rp. 2.000,- = Rp. 800.000,-

Rabbit = 240 x Rp. 2.000,- = Rp. 480.000,-

D o g = 40 x Rp. 20.000,- = Rp. 800.000,-

C a t = 4 x Rp. 10.000,- = Rp. 40.000,-

P i g = 8 x Rp. 75.000,- = Rp. 600.000,-

Goat = 12 x Rp. 50.000,- = Rp. 600.000,-

Cattle = 8 x Rp.400.000,- = Rp.3.200.000,-

Horse = 2 x Rp.300.000,- = Rp. 600.000,- Rp. 7.120.000,-

c. Experimental Animals for breeding :

Mice = 200 x Rp. 1000,- = Rp. 200.000,-

Guinea Pig = 50 x Rp. 1.000,- = Rp. 50.000,-

Hanster = 100 x Rp. 2.000,- = Rp. 20.000,-

Chicken = 500 x Rp. 1.000,- = Rp. 500.000,- Rp. 770.000,-

d. Feed for Experimental Animals :

Chicken = 1000 x 0,05 x 365 x Rp.300,- =Rp.5.475.000,-

Smal Animals= 5.000 x 0,01 x Rp.300 x 365 =Rp.5.475.000,-

Large Animals= 20 x 80 x Rp. 250,- =Rp. 400.000,-

Rp. 11.350.000,-

Rp. 25.240.000,-

ENERGY

Electricity = 365 x 24 x 60 x Rp. 50,- = Rp. 26.280.000,-

Fuel

Transportation = 4 x 10 x 300 x Rp. 158,- = Rp. 1.896.000,-

Generator = 10 x 30 X Rp. 158,- = Rp. 47.400,-

Oil = 5 x 8 x 12 x Rp. 600,- = Rp. 288.000,-

Rp. 2.231.400,-

EXPENDABLE

Glass Ware : = 549 x Rp. 7.500,- = Rp. 4.117.500,-

= 800 x Rp. 4.000,- = Rp. 3.200.000,-

Rp. 7.317.500,-

Reagent = 549 x Rp. 10.000,- = Rp. 5.490.000,-

= 800 x Rp. 7.500,- = Rp. 6.000.000,-

Rp. 11.490.000,-

MAINTENANCE SYSTEM FOR EQUIPMENT AND BUILDING.

All activities for maintaining equipment and building will be provided by personnel within the Veterinary Assay Laboratory.

In certain cases if needed for maintaining complicated equipment could be done by technicians from outside of Veterinary Assay Laboratory.

FUTURE PLAN OF THE LABORATORY.

Beside assaying Veterinary Biologic and Antibiotic also to be prepared to assay General Medicament .

To conduct training for Veterinarians and Technicians in Veterinary Drug Control.

4-a. Letter of Confirmation on the Project Site

REPUBLIK INDONESIA

DEPARTEMEN PERTANIAN
JAKARTA

Jalan Iman Bonjol 29

Tromol Pos 132/Jkt.

Telp. 348051 s/d 348054

No. : 16.554/8/12/1983

Jakarta, 23 April 1983

Keperluan :

Perihal : Keperluan tanah untuk
Perbaikan Laboratorium
Assay Laboratory.

Kepada Yth,

Sdr. Direktur Jenderal Peternakan.

Jl. Salemba Raya No. 26

di

J A K A R T A

Selubungan dengan surat Saudara No. 79/217-22/D tertanggal 15 Februari 1983 dan No. 275/217-22/D tertanggal 14 Maret 1983 perihal seperti tersebut pada pokok surat, maka bersama ini perkenankanlah kami menyampaikan hal-hal sebagai berikut :

1. Departemen Pertanian dan PAU XI telah sepakat tentang areal tanah Perkelompokan PAU XI yang diperuntukan bagi pembangunan perusahaan pegawai / karyawan Departemen Pertanian seperti tercantum dalam Instruksi Menteri Pertanian No. 01/ins/01/3/1983.
2. Setelah diadakan penyelidikan secara umum, maka tanah yang ditunjuk untuk pembangunan Veterinary Assay Laboratory adalah pada Keban afdeling III Blok 3 atau dalam peta Kantor Agraria Kabupaten Bogor cq. Sekeloa Pendak-taran tanah tercatat sebagai No. 23 persil "B" seluas 55,000 M².
3. Status tanah berupa sertifikat untuk areal tanah bagi pembangunan Laboratorium pengujian obat hewan Direktorat Jenderal Peternakan tersebut akan diselesaikan oleh Departemen Pertanian bersama-sama dengan status tanah untuk perusahaan pegawai/karyawan Departemen Pertanian secara menyeluruh.
4. Demikian agar Saudara menindaklanjuti dan atas perhatian Saudara kami ucapkan terima kasih.



....., Menteri Pertanian
....., Sekretaris Jenderal.

[Handwritten Signature]

(S. Samsud)

.....

Keperluan :

1. Yth. Sdr. Menteri Pertanian
selanjutnya.
2. Bertindak.

4-b. Geological Data and PUSPIPTBK

GEOLOGICAL DRILLING LOG

PROJECT:	Perboran Air	PS IA
SITE	Puspitak - Serpong	
ORIENTATION	Vertikal	
TOTAL DEPTH	90 m	
GROUND ELEV		DRILL MASTER: Johanis Sally
STARTED	17 Januari 1983	LOGGED BY: Zeenal Pedro
FINISHED	4 Februari 1983	APPROVED BY: Ir. Paulus K.
RIG TYPE	YBM-3, capacity 250 m	SCALE: 1 : 100

DATE	ELEVATION (m)	DEPTH (m)	LITHOLOGIC COLUMN	SOIL AND / OR ROCK DESCRIPTION	COKE REC/VEIN	Remarks
17 Januari 1983		0.0		SANDY CLAY, Red, moderately plastic, containing of sand (+ 12%).		
		2.0		CLAY, Red, highly plastic.		
18 Januari 1983		5.0		SANDY CLAY, Red to reddish brown containing of sand (+ 15%).		GWL 1.40 m
		6.0		CLAY, reddish brown, highly plastic		
18 Januari 1983		10.0		SANDY CLAY, Red to brown, containing of sand (+ 15%).		
		11.0		GRAVELLY CLAY, reddish brown, containing of gravel (+ 20%) ϕ max 1 cm.		
18 Januari 1983		12.0		CLAY, Brown moderately plastic containing a small amount of gravel (+ 10%) ϕ max 5 cm.		
		14.0		GRAVELLY CLAY, reddish brown, containing of gravel (+ 15%) ϕ max 1 cm.		
18 Januari 1983		15.0		CLAYEY GRAVEL, Red, containing of clay (+ 20%) ϕ max 2 cm.		
				GRAVELLY SAND, Red, coarse to fine grain - containing of gravel (+ 20%) ϕ max 1 cm containing a small amount of clay (+ 5%) and buff.		

GEOLOGICAL DRILLING LOG

PROJECT : SITE : ORIENTATION : TOTAL DEPTH : GROUND ELEV : STARTED : FINISHED : RIG TYPE :	GRILL MASTER : LOGGED BY : APPROVED BY : SCALE :
---	---

DB
 EB

DATE	ELEVATION (m)	DEPTH (m)	LITHOLOGIC COLUMN	SOIL AND / OR ROCK DESCRIPTION	% CORE RECOVERY	Remarks
10 BANY HALL 1983		15.0	[Symbol]	CLAYEY SAND, Brown, fine to medium grain containing of clay (+15%).		GHL 7.45 m
		16.0	[Symbol]	SANDY CLAY, Brown, moderately plastic containing of sand (+20%) and a small of tuff.		
		17.0	[Symbol]	SAND, Grey, fine to coarse grain containing a small amount of clay (+10%).		
		22.0	[Symbol]	SAND, Grey, fine to coarse grain containing a small amount of gravel (+10%) - max 2 cm.		
		23.0				

GEOLOGICAL DRILLING LOG

PROJECT SITE ORIENTATION TOTAL DEPTH GROUND ELEV STARTED FINISHED RIG TYPE	DRILL MASTER : LOGGED BY : APPROVED BY : SCALE :	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> DN IC </div>
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DATE	ELEVATION (m)	DEPTH (m)	LITHOLOGIC COLUMN	SOIL AND/OR ROCK DESCRIPTION	CORE RECOVERY	Remarks
19 JANUARY 87		20.0	.....	<u>SAND</u> , Grey, fine to coarse grain containing a small amount of gravel ($\pm 10\%$) & ≈ 2 cr.		GWL 7.10 m
		23.5	.....	<u>CLAYEY TUFF</u> , Grey, rather compact, medium to fine sand, clay ($\pm 15\%$) containing a small amount of calcine.		
20 JANUARY 1987		29.5	.....	Tufaceous sand, grey, rather compact, medium to fine grain containing of tuff ($\pm 15\%$)		GWL 10.50 m
		35.5	.....	<u>SAND</u> , Grey to dark grey, containing a small amount of Tuff with calcine, rather compact, medium to fine grain.		

GEOLOGICAL DRILLING LOG

PROJECT : SITE : ORIENTATION : TOTAL DEPTH : GROUND ELEV : STARTED : FINISHED : RIG TYPE :	DRILL MASTER : LOGGED BY : APPROVED BY : SCALE :
---	---



DATE	DEPTH (m)	LITHOLOGIC COLUMN	SOIL AND / OR ROCK DESCRIPTION	CORRECTION	Remarks
18 January 1983	42.0	•••••	SAND, Grey, coarse to medium grain poorly-graded, weakly cemented containing a small amount of clay ($\pm 5\%$)		GCL 11.12m
22 January 1983	43.0	•••••	CLAYY SAND, dark grey, coarse to medium grain, weakly cemented poorly graded containing of clay ($\pm 20\%$)		
23 January 1983	44.0	•••••	SANDY CLAY, Grey, highly plastic containing of sand ($\pm 15\%$) and organic material (shell)		
25 January 1983	47.0	•••••	CLAY, Grey to dark grey, highly plastic containing a small amount of sand ($\pm 5\%$) and shell ($\pm 5\%$) & max of shell 3 mm		GCL 7.00 m
26 January 1983	50.0	•••••	CLAY, Grey, highly plastic containing a small amount of sand ($\pm 10\%$)		
29 January 1983		•••••	CLAY, Dark grey, highly plastic containing a small amount of sand ($\pm 1\%$)		GCL 7.60 m

GEOLOGICAL DRILLING LOG

PROJECT	Zeoboran Jlr	<div style="border: 1px solid black; padding: 5px; width: 50px; margin: auto;"> DN 12 </div>
SITE	Puspiptek - Serpong	
ORIENTATION	Vertikal	
TOTAL DEPTH	90 m	
GROUND ELEV		
STARTED	17 Januari 1983	DRILL MASTER : Johnis Selly
FINISHED	4 Februari 1983	LOGGED BY : Zaenal Pedro
RIG TYPE	YGV-3, Capacity 250 m	APPROVED BY : Ir. Paulus K.
		SCALE : 1 : 100

DATE	DEPTH (m)	LITHOLOGICAL COLUMN	SOIL AND/OR ROCK DESCRIPTION	CORE RECOVERY	Remarks
17 Januari 1983	0	[Lithological Column Diagram]	CLAY, Dark grey, highly plastic containing a small amount of sand (+ 2%)		GSL 7.00 m
17 Januari 1983	55.0	[Lithological Column Diagram]			
17 Januari 1983	90.0	[Lithological Column Diagram]			

GEOLOGICAL DRILLING LOG

PROJECT : Penhoron Air
 SITE : Pucipocor - Sarpong
 ORIENTATION : Vertical
 TOTAL DEPTH : 90 m
 GROUND LEVEL :
 STARTED : 17 Januari 1983
 FINISHED : 4 Februari 1983
 LOG TYPE : YAK-3, capacity 250 :

DRILL MASTER : Johanis Sally
 LOGGED BY : Zeenal Pedro
 APPROVED BY : Ir. Paulus K.
 SCALE : 1 : 100



DATE	DEPTH (m)	LITHOLOGIC COLUMN	SOIL AND/OR ROCK DESCRIPTION	REMARKS
4 Februari 1983	0 - 7.00		CLAY, Dark grey, highly plastic containing a small amount of sand (+ 7%)	GM 7.00 m
	7.00 - 90.00			

4-c. Analysis Data on Water of Deep Well at PUSPIPTEK



PEMERINTAH DAERAH KHUSUS IBUKOTA JAKARTA

PERUSAHAAN AIR MINUM JAYA

Jalan Pengembaraan II, Kembangan
Telp. : 682256.



No. Lab. : 12/353/1nb/111/83
Lampiran :
Perihal : PENERIKSAAN AIR -

水質分析

Jakarta, ... 1 April 1983

Kepada Yth.
Ist. Teknologi IDY
Jl. Panjang Kav. B1 Cidodol
S.A.R.A.

Hasil pemeriksaan contoh air : Sumur 60 m
Lokasi : Serpong
Pengambilan dilakukan oleh : pelaksana contoh
Contoh air tsb. kami terima tgl. : 31 Maret 1983

STANDARD

Fisika	Hasil Analisis	Maksimum yang diijinkan	Maksimum yang dibolehkan
1. Warna (色彩)	35	5	50 ppm Pt-Co
2. Turbidity		5	25 ppm Si O ₂
3. Bau (臭)	Gas Lardou (臭臭)		
4. Rasa (味覚)	tidak berasa (不味)		
5. D.H.L.			Microhans
Kimia			
6. pH	8,9	6,5	9,2
7. Zat padat (固形物)		500	1500 ppm
8. Zat Organik (有機物)	12,01 ✓	-	10 ppm KMnO ₄
9. Carbon Dioxide bebas	13,2	-	0,0 ppm CO ₂
10. Alkalinitas			
a. P. Alkalinitas	6,5	-	- ppm CaCO ₃
b. M. Alkalinitas	230,0	-	- ppm CaCO ₃
c. Carbonat	0,0	-	- ppm CaCO ₃
d. Bicarbonat	230,0	-	- ppm CaCO ₃
11. Total Hardness	5,8	5	10 °D
a. Calcium Hardness	29,99	75	200 ppm Ca ++
b. Magnesium Hardness	6,88	30	150 ppm Mg ++
12. Besi (鉄分)	traces	0,1	1,0 ppm Fe ++
13. Mangan	negatif	0,05	0,5 ppm Mn ++
14. Sulfat	negatif	200	400 ppm SO ₄
15. Phosphate	negatif	-	- ppm PO ₄
16. Ammonia	0,15 ✓	-	0,0 ppm NH ₄
17. Nitrat	negatif	-	0,0 ppm NO ₃
18. D. O.			ppm O ₂
19. Silika (矽酸)			ppm SiO ₂
20. Chlorida	7,31	300	600 ppm Cl
21. Sisa Chlor (塩素残)			ppm Cl ₂
22.			

Keterangan - Secara fisika/kimia menurut Sd. dan Kes. No. 01/BIG/RI/1/75, contoh air tersebut kurang baik untuk air minum. Dapat diolah dengan klorinasi.

飲料水用は適せず
培養分組は辛味飲料の材料(?)



4-d. Meteorological Data at CURUNG

1. Temperature

Daily maximum temperature	:	33°C
Yearly maximum temperature	:	31.5°C
Daily minimum temperature	:	21°C
Yearly minimum temperature	:	22.5°C
Daily normal/average temperature	:	24°C (at 07.00)
Daily normal/average temperature	:	30°C (at 13.00)
Daily normal/average temperature	:	26.5°C (at 18.00)

2. Humidity

Daily maximum relative humidity	:	96 % (24°C at 07.00)
Daily minimum relative humidity	:	47 % (32°C at 13.00)
Daily normal relative humidity	:	92 % (at 07.00)
Daily normal relative humidity	:	62 % (at 13.00)
Daily normal relative humidity	:	79 % (at 18.00)

3. Wind force

Wind velocity, average	:	0.5 m/sec
Maximum wind velocity	:	30 m/sec

4. Wind direction

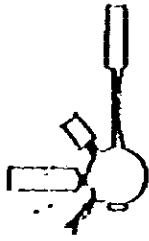
The pattern of wind direction is shown in attachment.

These data are taken from Curug, a meteorostation situated 14 km to northwest from the Site.

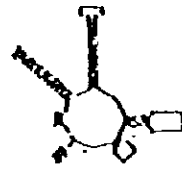
A recommendation has been given by the Institute for Meteorology and Geophysics, Jakarta, certifying that the Site location is a region free from any tornado or tropical cyclone.

5 Rainfall

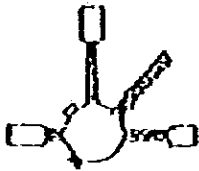
Maximum annual rainfall : 2590 mm/y (data observed during 1971 to 1981).
Average annual rainfall : 1899 mm/y (data observed during 1971 to 1981).
Maximum daily rainfall : 116 mm/day (1981).
Average number of rainy days : 102 days/y
Maximum number of rainy days : 156 days/y (1973).



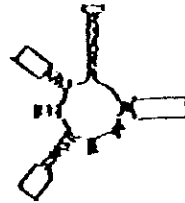
Dec , Jan , Feb



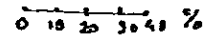
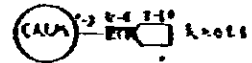
Jun , Jul , Aug



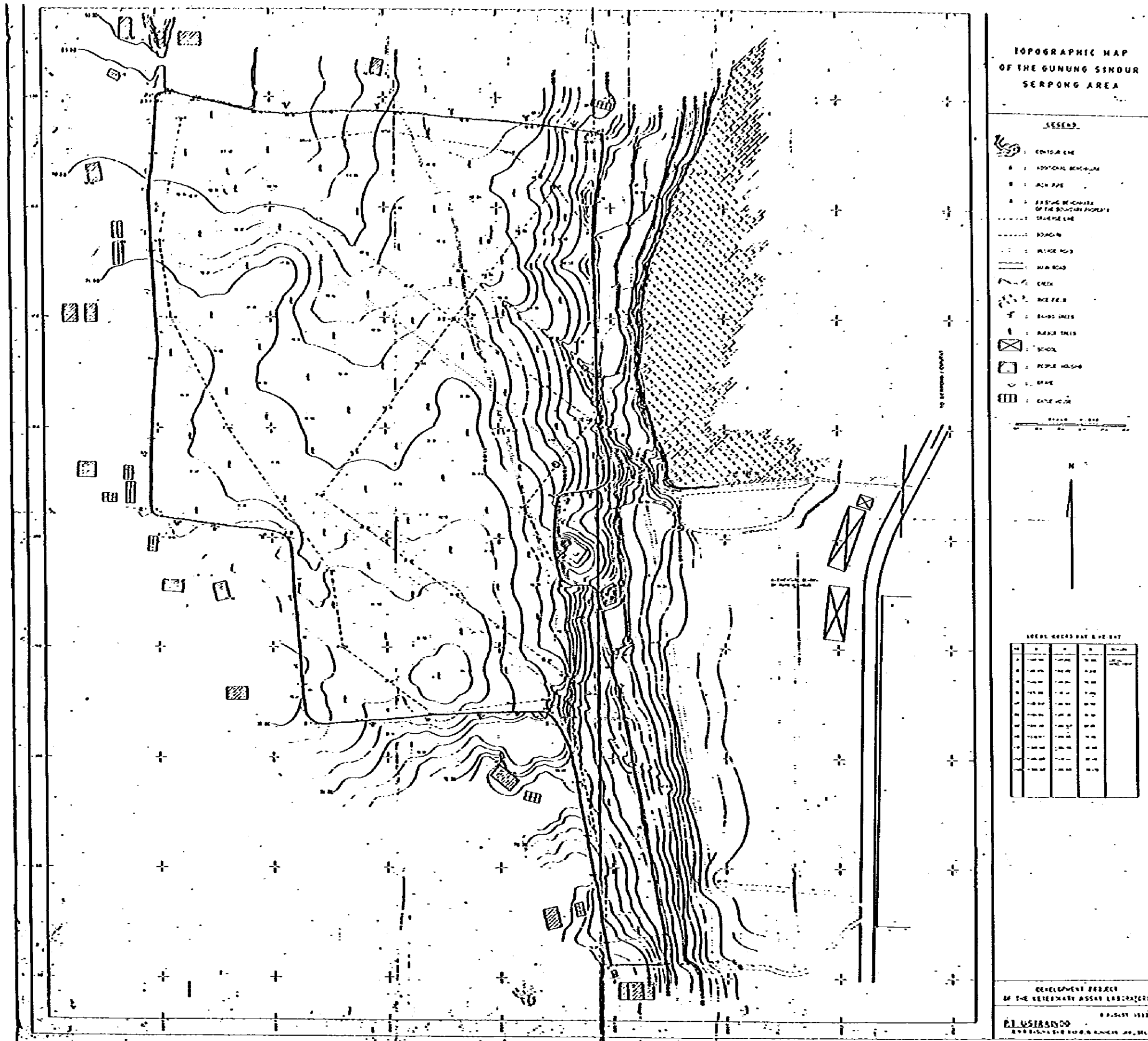
Mar , Apr , May



Sep , Oct , Nov



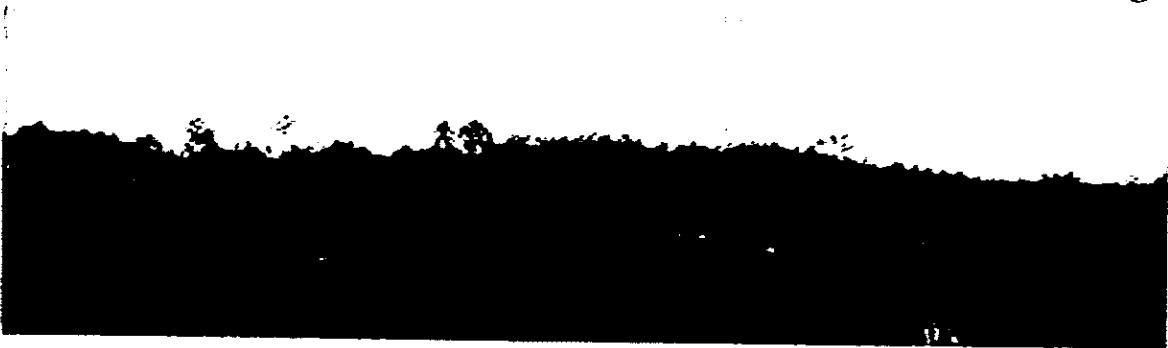
Seasoning wind roses at Orug, during 1970-81



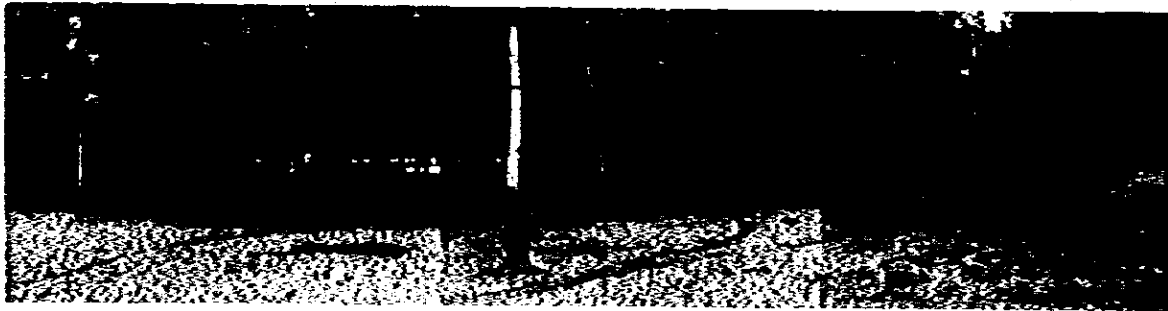
4-f. Views of the Project Site



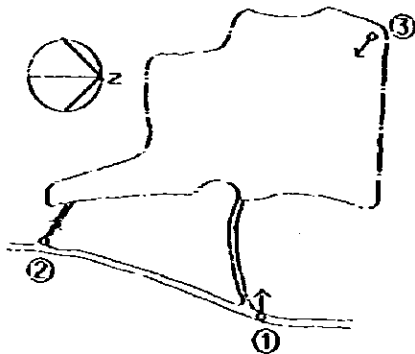
①



②



③



5-a. Product of Vaccine & Diagnostic of VETMA

(in million doses)

No.	VACC./DIAG.	1974	1975	1976	1977	1978	1979	1980	1981
1	Anthrax	-	-	-	0,05	0,1	0,55	1,2	1,2
2	Bruc. Ant. (RB)	-	-	-	-	0,008	-	0,0333	0,0333
3	Bruc. Ant. (SAT)	-	-	-	-	0,003	-	0,02	0,004
4	Bruc. Str. 19	-	-	-	-	-	0,0012	0,02	0,02
5	Diphtheria	0,05	0,44	0,72	1,2	1,1	1,8	0,7	-
6	Fasciola Ant.	-	-	0,001	0,01	0,01	-	0,01	0,015
7	F. M. D.	0,0739	0,014	-	-	-	-	1,2	0,6
8	Fowl Cholera	-	-	-	0,127	0,05	0,1	0,648	0,9
9	Escepoh. Gall.	-	-	-	-	0,01	0,16	0,21	0,1
10	H. S.	-	-	-	0,07	0,11995	1	2,2	3,3
11	Mycopl. Gall. (Ant)	-	-	-	-	0,005	0,02	0,03	0,01
12	H.D. (B1)	-	0,03	0,9	0,15	0,1	0,1	0,2	0,2
13	H.D. (Inactive)	0,138	0,276	0,428	0,75	0,95	0,7	1,092	0,8
14	H.D. (F)	2,73	1,225	4,095	6	9,5	6	12	16
15	H.D. (K)	23,7	28,155	27,3	31,9	39,5	37	48,2	49
16	H.D. (Lasota)	-	0,355	0,632	0,8	1,092	0,307	1,2	0,7
17	Pullorum (Ant.)	-	-	-	-	0,005	0,01	0,02	0,1
18	Rabies (Flury)	-	-	-	-	0,0005	0,0005	0,0013	0,002
19	Rabies (Sezple)	0,041	0,0795	0,131	0,107	0,22	0,27	0,33	0,32

