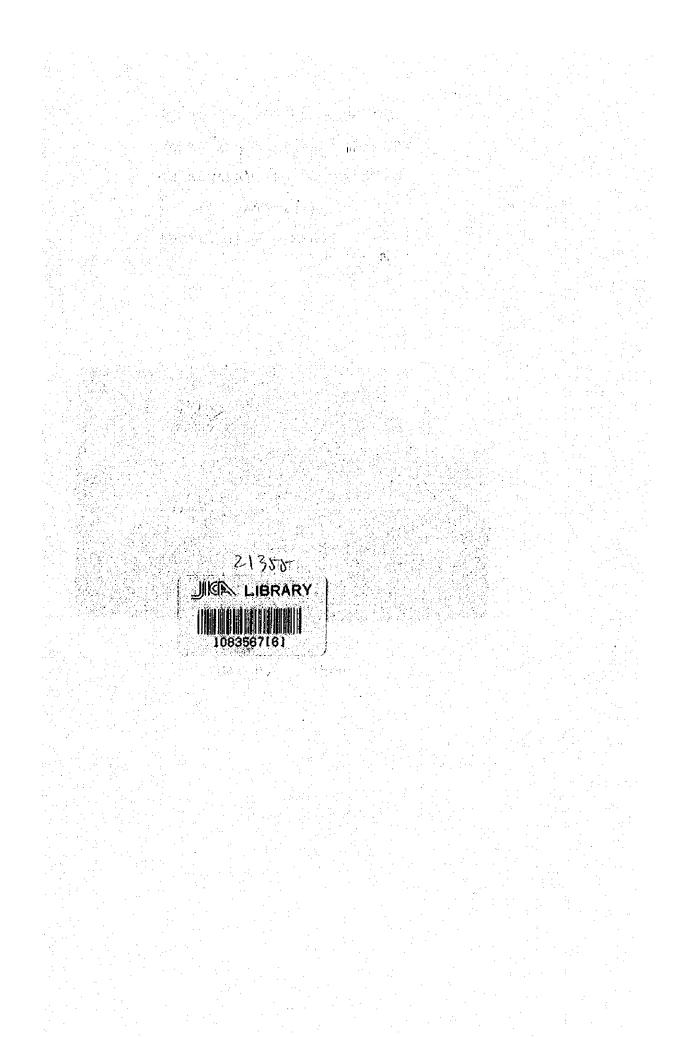
TECHNICAL CODURATION FOR THE TREAL PLANDATION PROJECT IN SEMARAT, SOUTH SIMAPERA (ATA 186)

DEPARTEMENT NERUTANAN DIT BEN REDOISASI DAN REHARD ITASI LAMAK BALALTE KNULOGI REDOISASI HEMAVAT PROVER PERCORANI, TANAMAN HUTAK (MTA - 186.) 2100 hs

e March, - 1988

A JAPAN INTERNATIONAL COOPERATION AGENCY

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TECHNICAL COOPERATION FOR THE TRIAL PLANTATION PROJECT IN BENAKAT, SOUTH SUMATERA (ATA-186)

APRIL, 1979 - MARCH, 1988

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March, 1988

JAPAN INTERNATIONAL COOPERATION AGENCY

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23. Suggestion to the Project from JICA expert(Saran-saran dari

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* Conclusion

調調自己的 医消疫管理学会 消滅 支援 新安方

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经营业行用的 医黄鳍属 医口腔支持 经资源证券 经运行证券

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Preface

The Trial Plantation Project(Proyek Percobaan Tanaman Hutan) (A T A - 1 8 6)

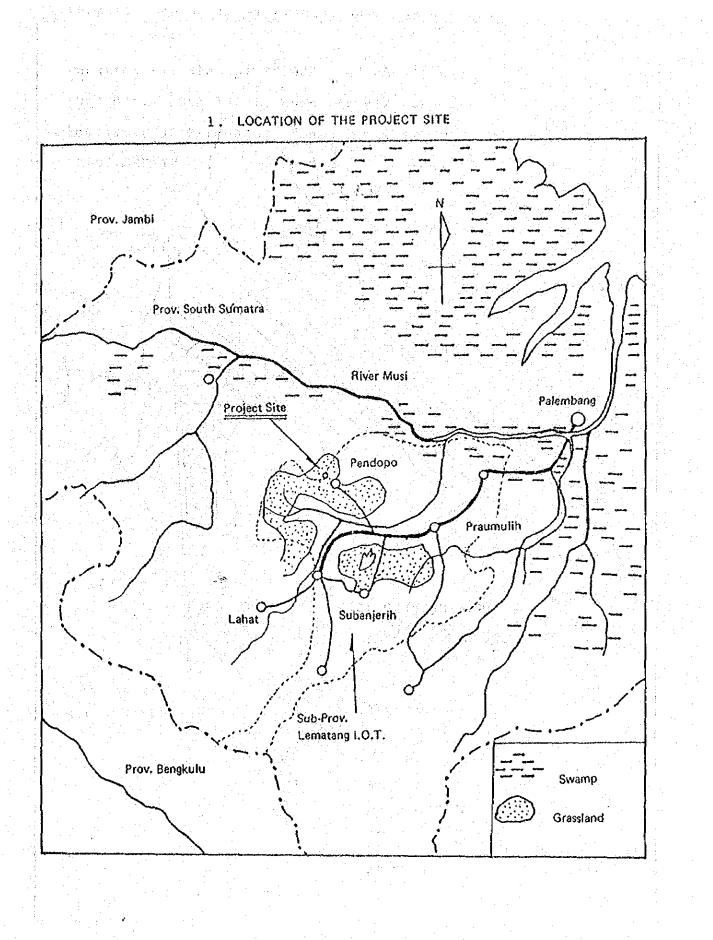
The Technical Cooperation for The Trial Plantation Project in Benakat, South Sumatera (ATA-186) has been proceeded since 1979, aiming at establishing afforestation techniques so as to contribute to the successful plantation on alang-alang grassland as a foregoing stage of an industrial scale afforestation.

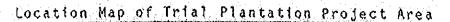
It is said that there are critical lands of fourteen million HA which should be rehabilitated in Indonesia.

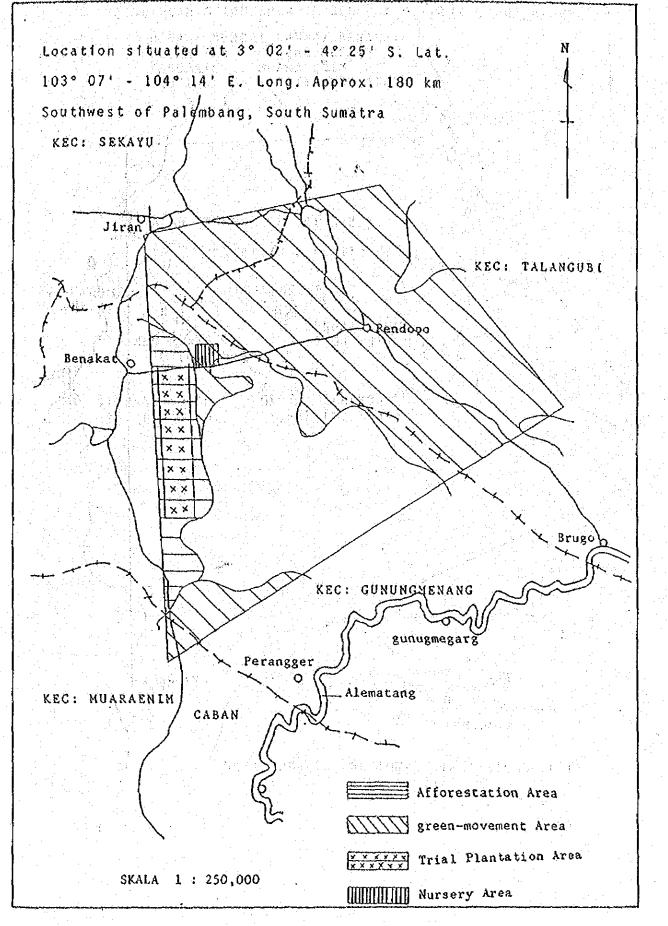
"In many developing countries, the supply of food, water and fuel to rapidly increasing population is becoming more and more difficult. Forest are quickly disappearing in unplanned agriculture and overexploitation of forests particularly for fuel wood, and desertification is threatening many areas. The deterioration in land productivity endangers the survival of the pepole. " (The YOKOHAMA FOREST DECLARATION, October 14, 1985) Commemorative Symposium for the International Year of the Forests).

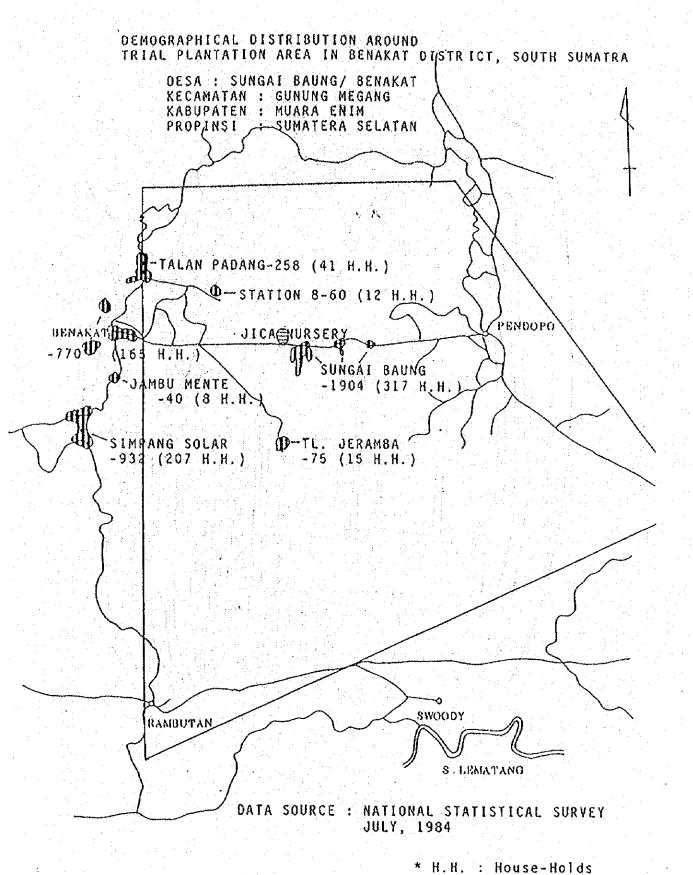
From the view-point of sustainment and enrichment of forest resources, soil conservation and water management, it should be greatly appraised that the government of Indonesia recognized the significance and the urgency of restoring forests on those unproductive grasslands as one of the top priority policies of the national development programe. The Project activities have been successfully implemented during the initial five years, the two year extended and the two year followup, owing to the good cooperation efforts of Indonesian counterparts, Japanese experts and both countries' authorities concerned.

The Project is ended on 31 March, 1988, with the great results.



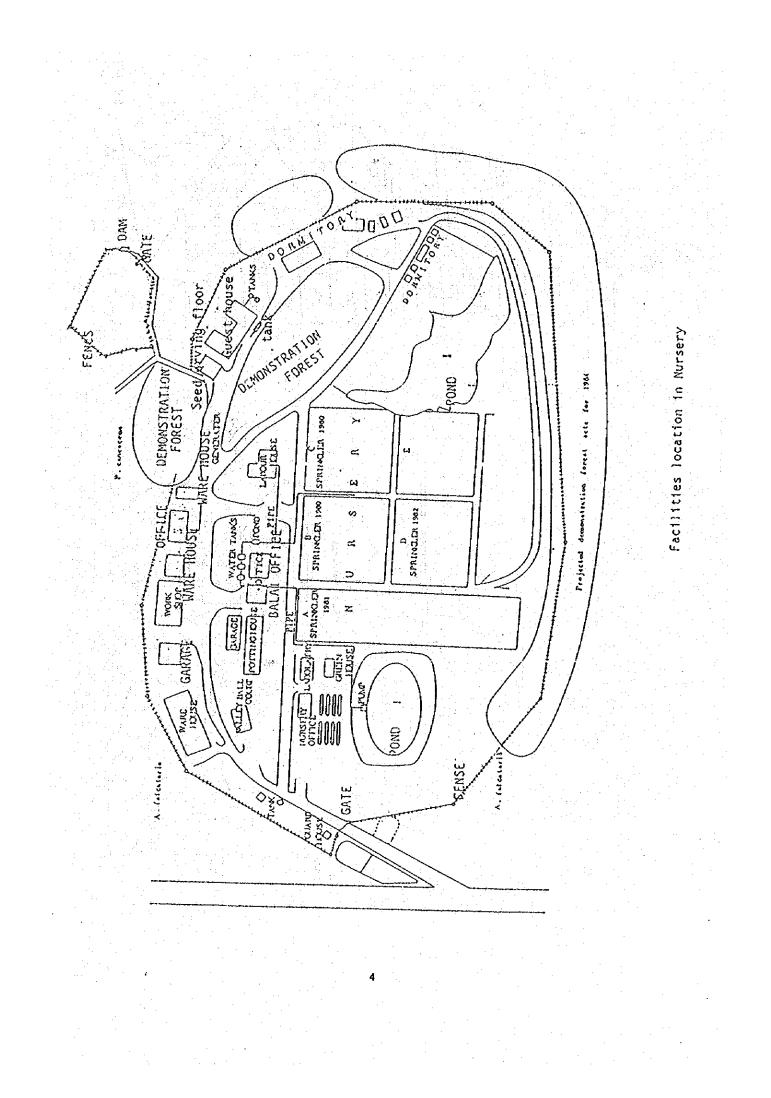




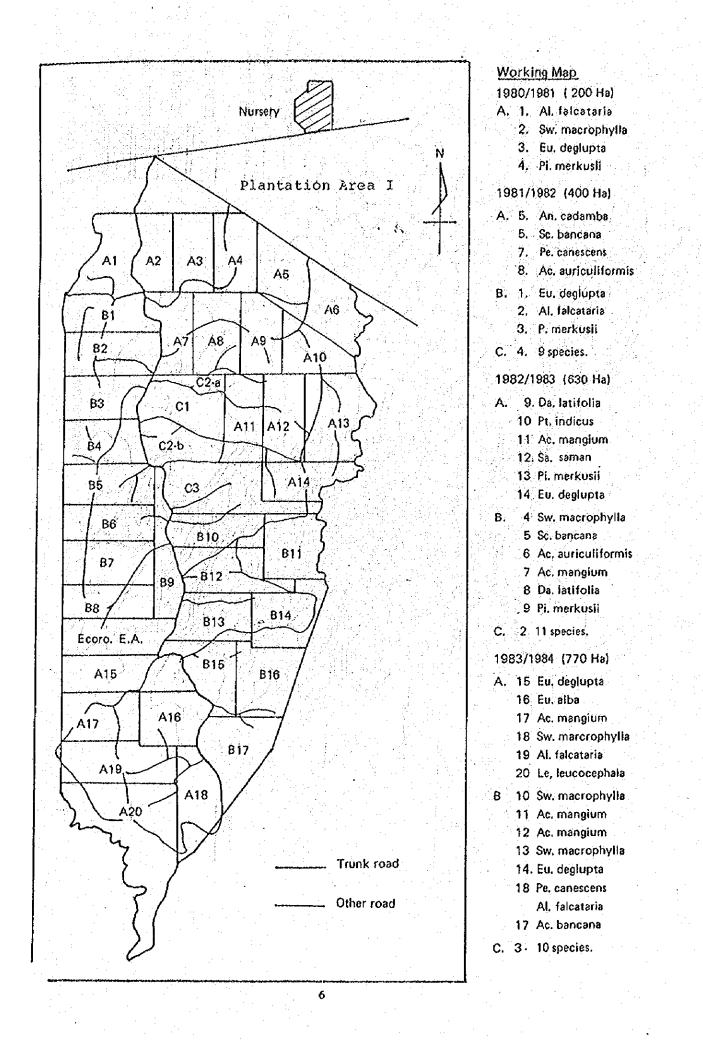


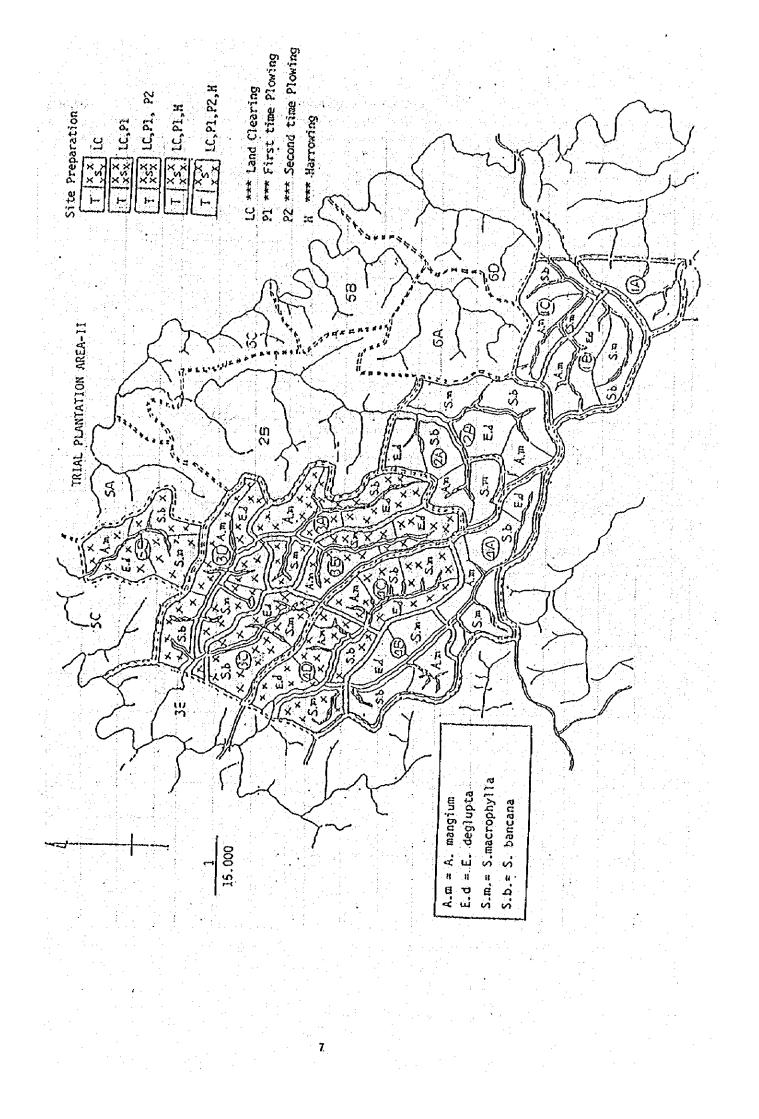
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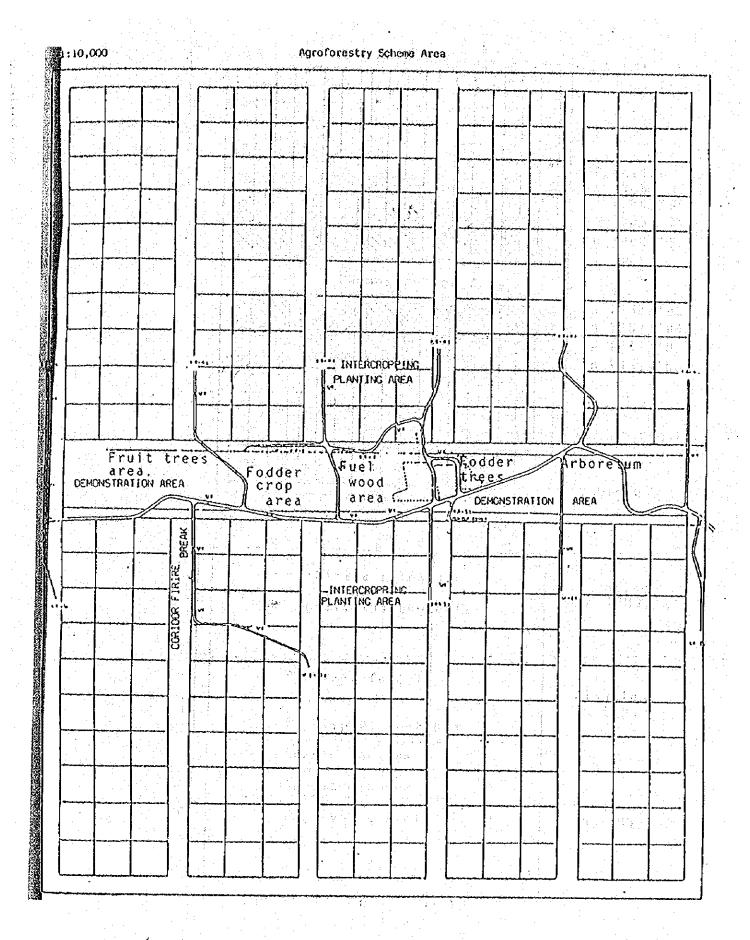
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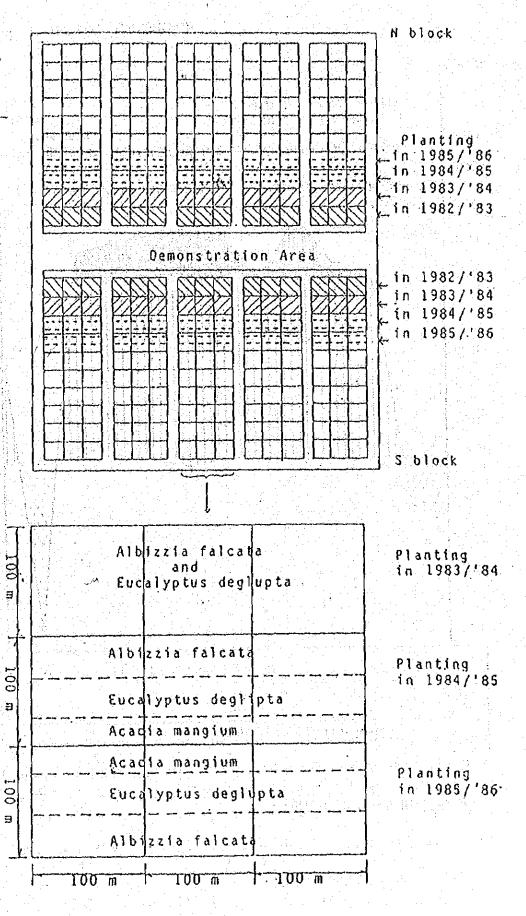
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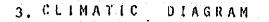


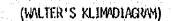


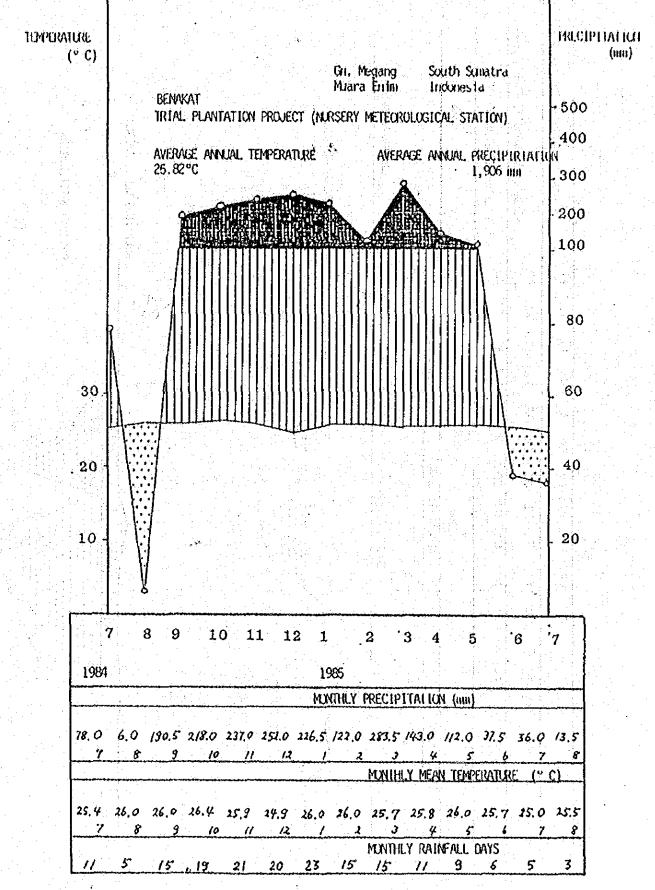
Layout of Agroforestry site.

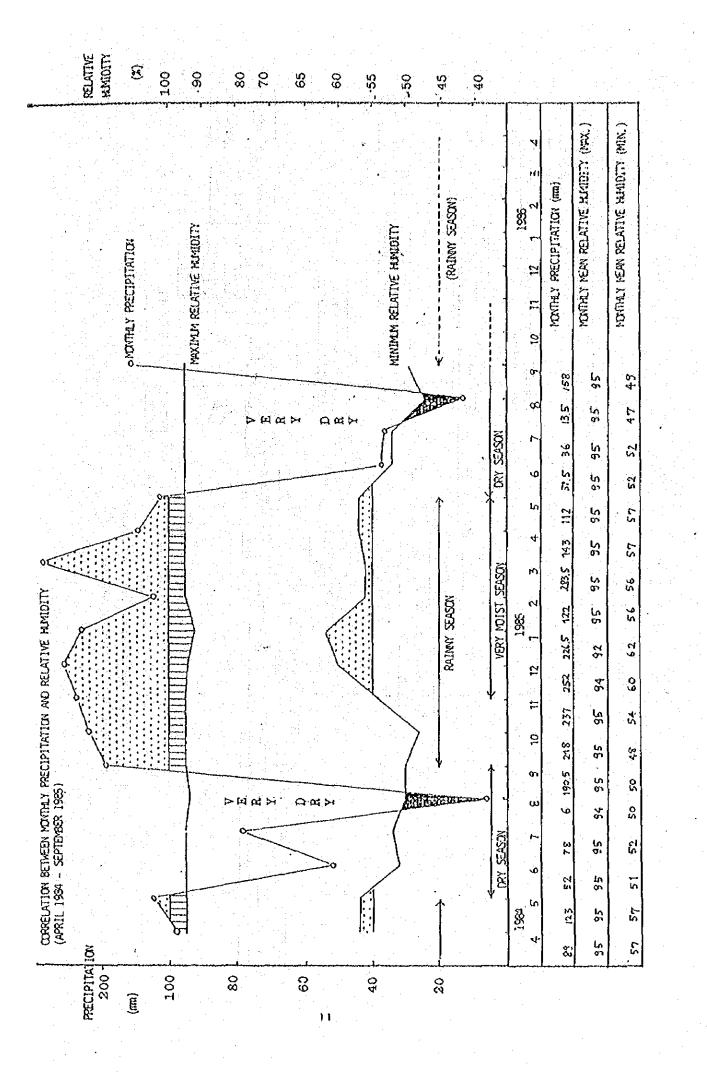


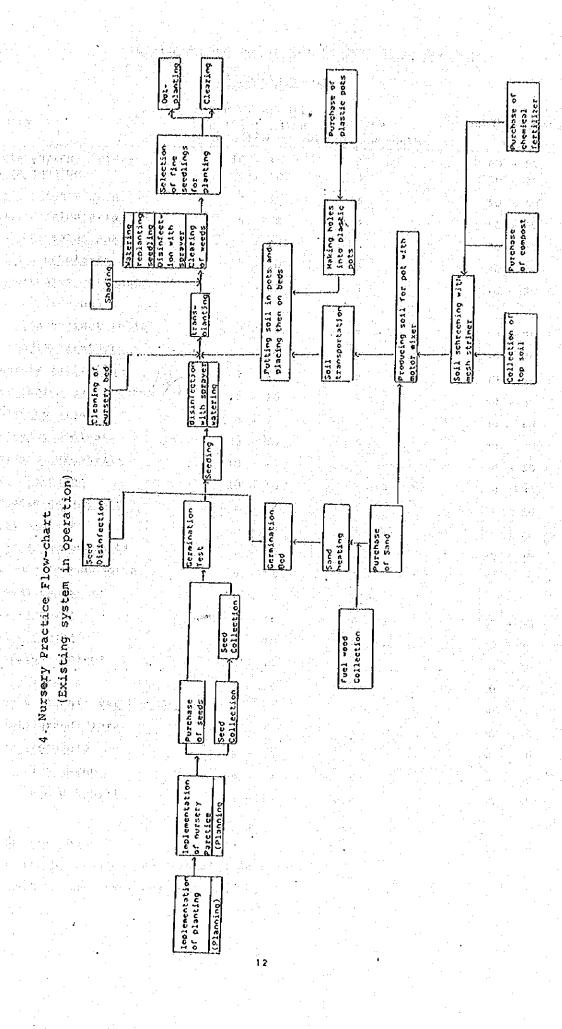
Layout of planting.











5, Nursing Period And Number of Days After Seeding

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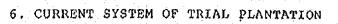
Species	*Number of days after seeding to pricking out	Nursing period wonth	Seedling height Cm
Acacia auriculiformis	10 ~ 14	3	40 - 50
Acacla manglum	7 - 10	3	50 - 70
<u>Acacia siluars pera</u>	7 - 10	3	50 - 60
<u>Albizzia falcataria</u>	5 - 8	3	50 -100
Aleurites moluccana	12 - 20	4	30 - 45
Alstonia scholaris	7 - 10	3	40 - 50
Anthocephalus chinensis	20 - 25	3	40 - 50
(syn. A. Cadamba)			
Casuarina equisetifolia	7 - 9	4 c=3	50 ~ 80
calliandra carathyrsus	6 - 10	3	40 - 70
Dalbergia latifolia	7 - 11		40 - 60
Interolobium cyclocarpum	5 - 10	3	60 - 80
Lucalyptus alba	6 - 9	3	40 - 60
ucalyptus deglupta	25 - 30	3	40 - 60
ucalyptus urophylla	10 - 15	3	40 - 60
melina arborea	10 - 14	3 c=3	40 - 80 70 -100
coompasia malacensis	6 - 8	8	70 - 100 30 - 50
eucaena glauca	5 - 8	3	40 - 70
eucaena leucocephala	5 - 8	3	
lelaleuca leucadendron	9 - 14	3	40 - 70
eronema canescens	10 - 20	al Za 1911 - Maria North	50 - 88
linus merkusii		4 c=3	
<u>'inus caribaea</u>	7 - 14	8	25 - 30
terocarus indicus	10 - 20	8 c ≓4	30 - 50 c≈20-
amanea smaan	9 - 14	1 3	40 - 60
chima wallichii var bancana	5 - 8	3	40 - 60
esbania grandiflora	6 - 18	3-4 c=3	30 - 50
horea leprosula	8 - 10		30 - 50
	4 → 6	8. 8	30 - 50
horea singkawang	6 - 7	8	30 - 50
wietenia macrophylla	12 - 14	3-4	30 - 60

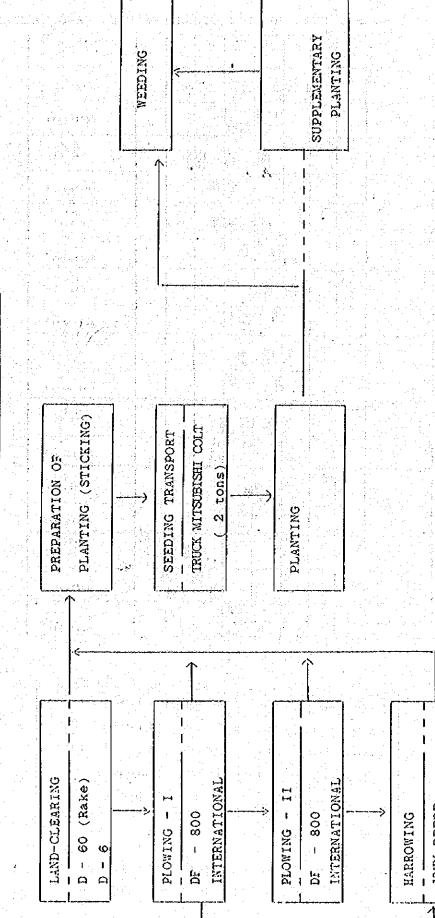
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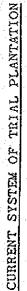
cited from H. Yamate: operational Report 1984

* Retno Sekarsari (Nursery counterpart)

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HARROWING JOHN DEERE

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7. OPERATIONAL PLAN AND EXECUTION FOR SITE PREPARATION AND House 7 8 9 10 11 12 1 2 CULTIVATION

Remarks :

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		•	Planting		J John Deere
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Operational Plan and Execution for site preparation and cultivation in 1985/1986

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			· · · · ·	Albizzia falcataria	Swietenia macrophyll	Ducalyptus deglupta	Finus merkusij	Anthocephalus cadamba	Schima wallichii var. bancana	Peronema canesens	Acacia auriculifornis	Dalbergia latifolia	Pterocarpus indicus	Acacia mangium		Samanea saman	Eucalyptus alba	Leucaena leucocephalla	(Agroforestry)	S	Species Introduction		
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8. ANNUAL PLANTING AREA OF SPECIES (1980--1988)

PLANTING AREA OF SPECIES

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* Ffrebreak Belt Not included

Note:

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ANNUAL PLANTING AREA OF SPECIES ON MANUAL AND MECHANICAL BLOCK	きょうか ボービン まっかい たいし おりがい たかい 一次 製作品 まったま スケンチ カイ・バット かんかい たいしょう かんかい たいかい たいせいせい たいかい アイ・ディー・ディー かいしょう かいしょう しょうしょう しょうしょう しょうしょう
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		8 e a 2 %		A : manual Block		o : reutation	2023							•													· · · · · · · · · · · · · · · · · · ·	• • • • • •			
	Plantation	Total	(300)	175	(250)	250	(300)	250	(300)	200	(200)	50	(250)	100	(001)	100	(150)	100		10		50		250		100		75		50	(1850)
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		Species	Albizzia	falcata	Swietenia	macrophylla	Eucalyptus	deglupta	Pinus	merkuli	Anthocephalus	chipensis(syn.A, cadarba)	schima wallichii	var bancana	Peonema	Canescens	Acacia	auriculiformis	Dalbergia	latifolia	Pterocarpus	indicus	Acacia	manglum	Samanea	aangiua	Samanea	5983C	Eucalyptus	alba	Sub Total
				-				: :															•	•			· '.			·	

8-(1) ANNUAL PLANTING AREA OF SPECIES , Plantation area I

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								Plantation	1 001	
Spectes	80 / 81 - 1 - 1	81 / 82 A   R	82 /		83 / A	¥8.4	Total		Total	۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲
		(50)		(100) 30		(100)	(050)		(250)	C : Species
S u D					7					latroduction
T O L A L DONE	( <u>200)</u> 200 200 200	(200) (200) 200 200	( <u>300</u> ) 300	(400)	(300)	( <u>500)</u> 470	01 0001 1000 100 101	2) (0001) (0001)	(2100) 2000	
		i								
1981/1982		1982/15	/1983				1983	1983/1984		
		5 C					м О			
(a)		(a)					P lau:	Pinus merkusii	t t s n y	
Acacia mangium		Shorea	leprosul	ula.			Plaus	Pinus caribaea	Daea	
~		(9)					Pterc	o carba	Pterocarpus indicus	cus
Acacia perarium		Piaus a	merkusii				Eucal	Eucalyptus	urophyl	hylla
( <b>Q</b> )		Acacta	ta mangium	*		•	Alstaia		scholari	S
Aleurites moluccana		Casuarina	ina equi	equisetifo	5		Shore	a lep	Shorea leprosula	
Peronema canescens		Eucalyp	yptus alba	13			Dalbe	rgia	Dalbergia latifolia	lia
Pterocarpus indicus		Eucalyp	yptus ur	urophylla			Gmelina	กล่อก	arborea	
(c)		Eucalyp	yptus comodulens	adulens	N		Crypt	omeri	Cryptomeria iaponica	l i.c.a
Entorolibium cyclocarpun		Gumerina	a arborea	e a			Chama	Chamaesvoaria	ria obt	oh tus à
Leucena leucocephala		Kompass	ssia malà	malacensis						
Plerocarpus indicus		Melaleu	euca leuci	leucadendoroa	VO.	· ·	•			

			hana a						
Total	- (54) - 54	(54)	54	(12)	12	(40)	40	(160)	160
85/86	( <u>12</u> ) <u>12</u>	(12)	12	( 0)	6			(30)	30
84 /85	(12)	1 :	12	<u>}</u> ( 9 )	Q			(30)	
83/84	(15)		15					(30)	
82/83	(15)	1					40	(20)	101
	01an done	plan	done	p an	done	plan	done	log o	done
5 p e c i e s	Albizia falcataria	Eucalyptus	deglupta	Acecia	mangium	• • • • • •	Others	Totol	10(01)

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ANNUAL PLANTING AREA OF SPECIES ON MANUAL AND MECHANICAL BLOCK

SPECIES INTRODUCTION

19

Acacia manglum

Anthocephius chinensis (Syn.A.Cadamba) Dalbergia latifolia

Enterolobium cyclocarpun

Eucalyptus deglupta Gmelia arborea

Koompassia malaccensis

Melaleuca leucadendron

Peronema canescens

Pinus caribaea Pinus merkusii

Pterocarpus indicus

9,

Schima wallichii var bancana.

Swietenia macrophylla

Calliandro calothyrsus Leuvaena leucephala Casuarina equisetifolla

Gmelina arborea Glerecidae sp.

Sesbania gradifolia

Annual Planting Area of Species on Manual and Mechanicalk Block

			والمراجعة والإيرانية والمحيرة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة والمحادثة	P.1 a	Plantation II	n II	
Species		84/85	05/86	*86/87*87/88	*87/88	Tota	Remarks
Acacta	<u> 61an</u>	(40)	(41)				*F0]]0w0
and form	done	38	45	64	45	192	2. 3
Eucalyptus	p1an	(00)	(37)				
deglupya	done	2	<b>37</b>	30	27	223	
Swietenia	plan	(40)	(36)		- -		
<u>Macrophylla</u>	done	41	<b>36</b>		33	110	
Schima wallichii	plan	(40)	(36)				
var bancana	done	44	32		36	112	
Others	plan	(10)	(20)				
	done	•	20		61	43	
Total	plan	(170)	(170)				
	done	170	170	170	170	680	
Species introduction							
84/85			85/86			ý X	86 / 87
Shorea so			Tectana.			) ) (	2
			ferminalla Schima son	ula catapa son	pa	Ē	rinus oocarpa
eucalyptus urophylla	•		Cryptomeria		Jeponica		
			Camacyperis Peronema Car	ktis obtusa Canescens	usa ens	en sat Ri tu	
			Swletchia mahogani	a achog	ant		
			Gmelina arborea	arborea			
			Lagerstromia species Equcalytus denimota	us denle	ecies 1019		
				1 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Plantation area II

8-(2),

9. SOIL CHARACTERISTICS

# SOIL CHARACTERISTICS, SURVEYED AROUND TRIAL PLANTATION PROJECT

	(A) Top of rolling terrain	(B) Slope of rolling terrain	(C) Foot Slope of rolling terrain	(D) Plain of valley
A- horizon	blacksih color thin, distinct foundary, reductive color silt loam in texture	blackish thin distinct foundary silt loam in texture	blackish thin distinct foundary silt loam in texture	Silty loam
Upper B- horizon	Very compact low permeate mottle color of of high chroma	compact many vertical fissures	compact many vertical fissures some what low permeat	Gleiic horizon Silty loam Concretion of Fe. Mg.
Lower B- horizon	Increase in clay material	increese in clay material clay skin	increase in clay material clay skin	Gleiic horizon
Layer iron stone gravel	thick appear mostly shallow place	thin	thin appear mostly deep place	lack of this layer
transi- tion to C- horizon	Mottles of low chroma		Mottles of low chroma	
Product- ivity	Comparatively low	some vhat lov	Comparatively high	most low

Data Source : Report of Development Planning Survey for Afforestation Project in Benakat District, South Sumatera, The Republic of Indonesia, June, 1979

CHARACTERISTICS		Soil is compact Permiability is not good		Soil structure develops more than Alang grassland soil. Permiability is good	Distribution of root system is deep and vigorous Permiability is better than secondary forest soil	Irial Plantation Site
PERMIABILITY (PERCOLATION RATE)* CC (5 minutes)	DEPTH (CN) PERCOL - PURE ALANG ² 6 - 10 cm +25 cm	82-9 +50 cm 6.4 (ALANG ² + EUPATORIUM SUBTYPE) 8.3 A-9 +12 cm 8.3 81-9 +24 cm 2.9 82-9 +50 cm 5.7	(At ANG ² + MELASTOMA SUBTYPE) A-9 +10 cm 13.8 81-9 +21 cm 20.0 82-9 +50 cm 12.7	A-9 +12 cm 25.9 B1-9 +25 cm 10.4 B2-9 +50 cm 7.5	A (A1+81) + 6 cm 35.0 B1 +32 cm 82 +74 cm *	• 10 cm depth 79.0 • 20 cm depth 93.5 • 40 cm depth 23.0
		organic metters is deep		Organic content in surface layer is lesser than Alang ² grassland soil	Crumbed structure develops in surf. layer Color tone with organic matters most scarce	-preparated soil + Plowing)
CLASSIFICATION SURFACE LAYER	A. Alang-alang grass- land soil			B. Secondary forest soil soil	C. Natural forest soil	CONTROL. Mechanized site-preparated soil (Land clearing + Plowing)

Forest Ecology Working Programs 1982/1983

SOIL CLASSIFICATION AND PERMIABILITY BY DIFFERENT VEGETATION TYPES •••

•

	COST ACCO	DNITNG	SEEDLING P	OF SEEDLING PRODUCTION PER UNIT			
						1 Unit=1.000 seedlings	seedlings
Species	Acacia	Albizzia	Eucaryptus	Eucaryptus	Schima	Swietenia	Remarks
Iten	mangium	falcataria	alba	deglupta	bancana	macrophylla	
(Accounts for Cost Accounting	Rp./unit	Rp./unit	Rp./unit	Rp./unit	Rp./unit	Rp./unit	
Cost Accounting of Expendable	13,927	12,819	12,849	13,110	12,854	12,370	0~(
Cost Accounting of Labour Charges	17,999	20,092	17,007	12,829	18,722	24,167	<u>1)</u>
Total Variable Cost	31,926	32,511	29,856	25,939	31.576	- 36.537	3 <u>EED</u>
Cost Accounting of Machinery	20,678	20,678	20,678	20,,678	20,678	20,678	
Cost Accounting of office, Warehouse & Building etc.	8,620	8.620	8,620	8,620	8, 620	8,620	
Total Fixed Cost	29, 298	29,298	29,298	29,298	29,298	29,298	
Seedling Production Cost per unit	61,224	62,209	59,154	55,237	60,874	65,835	

10. COST ANALYSIS 

10-(1) SEEDLING

Cost Analyzis of Planting o

Cata pr

ł including digging holes excluding seeding trans. Box for planting KCRUICK ÷. -totrator (61.0) 0.43 8.0 (07-10) 0-61 0,40 (1.22) ମ'0 8.8 **9**-0 ŝ 9 1 6 9 Labourers por ha (man oer ha) Foreman Laborers (nor 1 (8.6) (08.1) (7.35) (0-0) 0,43 (8.93) 0, 35 80 7.35 8 8-4 (81.00) (.2.57) 8 0-61 8.93 8 8 8.0 24.00 111.08 \$ 1 1 (10.0) (0.56) 0.56 (0.56) (4.48) (0-00) 8 0.5 ţ 0.55 2.24 1.68 1 \$ 8 0 3 9 Snare percentage ( 44.5X) ( 77°8X) (X) (X) (17.23) (21.41) (30-1)) Cost ocr Na in Kubiah-(No) 224,608.-11.250.--.069,04 6.250.-96,932.-30,446 Rp. 16,281.-19,625.-5.882.-56,540.-5,261.--3,750-24.068.-10,031 5,261-75,000.-10,840.-58,360.-39.780.-87.001.-2,500.-2,528.-Po. 12,001-107.970.-6.936 32,520 2 ģ ģ ð 8 2 ģ į é ģ 89 8 Sub Total:Tending 3 years Production Cost, Seedlings Heeding (Strip-3/Iotal-1) Supplementary Replanting Labourers Jransportation Lenporary working house Planting-Notice Board Creen Fire Protec Bolt weeding (Strip-3) Preasuring & monthe Repair & Maintenance Cost for Forest Road Collection of Stick Suppl. Replanting-2 Planting (digging) weeding (Strip-1) LC-Land Clearing working Process Descriptions Transportation P-1 Plowing-1 P-2 Ploning-2 H - Harrowing Sin-Total Sco-Total Sticking Sub-Total Sio-Yotal Sub-Jotal Sub-Total Items of Lost Accounting ceding Transportation Collection Of Planting Tending for 3rd Year ending for 1st year ending for 2nd Year lanting including Site Freparation Hechanical soil Stick & Sticking ligging holes cultivation Other Costs

(12.0)

(33.611)

(5.70)

(100.001)

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Crand-Yotal (per ha)

10-(2). PLANTATION

Plowing-2 Horing Plowing-1 Hurrowing Seculing Repair Farest Fransportation Read	Konstsu Hotor Eraoor		i de Internet internet interne	19,338,000 19,598,000 21,241,000 21,241,000 8,500,000 64,400,000 5	4,225,000 - 12,128,000 - 5,013,000 - 2,640,000 - 12,128,000 - 2	2.4	500 hours 600 hours 600 hours 600	3,924,000 2,333,000 3,954,000 2,333,000	1,139,00	88.8	1,81 hr/ha 3,83 hr/ha 1,45	11,520 10,594 10,253 9,475 2,200 25,570	hour for the second	2,100	72 578 977 600 450	3,916	173	Ph.18,751- Ph.16,821 Ph.17,332 Ph.16,751 Ph.2,524 Ph.35,254		10:40.00 Po.20.446 Po.66.387 Bu.24.289
Lard Clearing Ploning-1	Komalsu D-600 Komatsu Inter.	Rake Blade   Disk Plow	Š.	66,667,000 19,598,000	15,733.000 4,625,000	2.4	<u>x</u>	2,283,000 3,954,000	-:000,%(1,1),000	28-52 28-52	2,20 hr.Ma 3,03 hr.Ma	27,318 11,528	And And	7,320 2,654	2,196 750	7,047 3,529	179	P.44,000 160.18,660		FD.96,932 RD.56,540
Land Clearing 1	Caterpil.0-6 +	Cozer Black	e e	53,433,000	12,610,000	8 8 8	600 hours		1 •		2.42 hr/ha	21.017	at /your	z.) 6,930	.) 2,079	6,427	1%	 Rp. 36,632		Ro. 88,649
working Process	Hachinery	V korkino Equipment .		1. Price Arrotased	<u>м</u>	y (Amal Oppresistion	n n	4. Price Anthesed	5. Arnal Fixed Charg.		²	7. Variable Cost of	Attached Equipment	8. Fuel Cost (per hr.)	F 2. 011 Cost (per m.)	E 10. Cocrator's Cost	1	 E 12. 300 iotal Variable S Cost per hour (Ar)	13. Cost accounting	per ha. (12.X 6)

10-(3). MACHINERY

. Cost Accounting of Michinery per ha.

2 4 5 - Trice Purchased to be additionally included with jost of 1
 2 4 5 - Arrial Depreciation Percentage to be shown in Table 2-1
 3. : Arrial Utilization (hours to be shown in Table 2-2
 6. : Working Efficiency (hr./ha) to be shown in table 2-3
 7 : Variable Oost of Machinery (Dassis/Attaced Equinment) or

: Variable Cost of Machinery (Chassis/Attaced Equipment) per tour. We not of Calculation  $\frac{2^{4.5}}{3}$ : 011 Cost = 8 x 70X

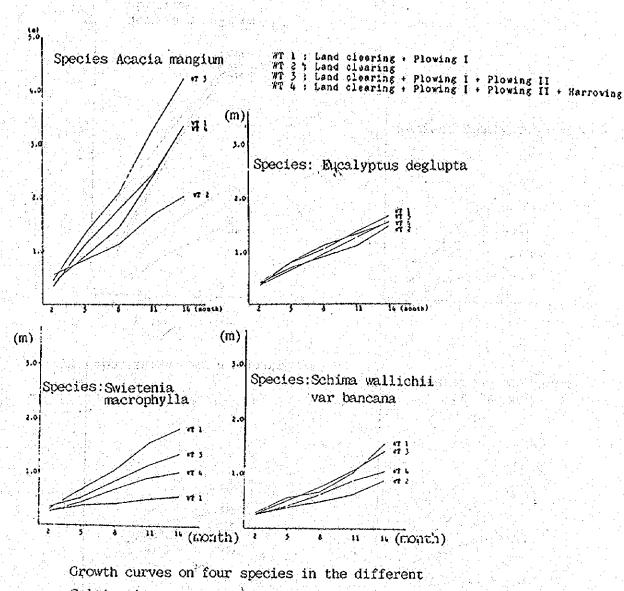
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8 & 9 : Fuel Cost/Oll Cost (per hour) to be shown in Table 2-4 10 & 11: Operator/Helper Cost (per hr) to be shown in Table 2-5

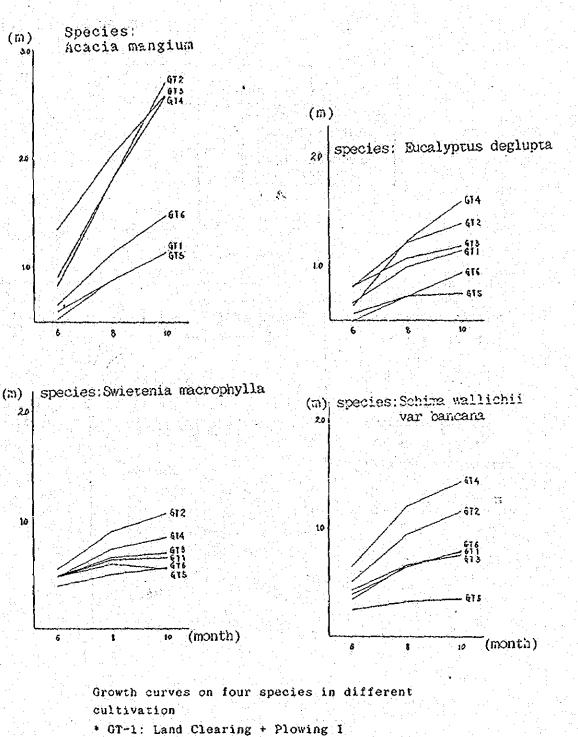
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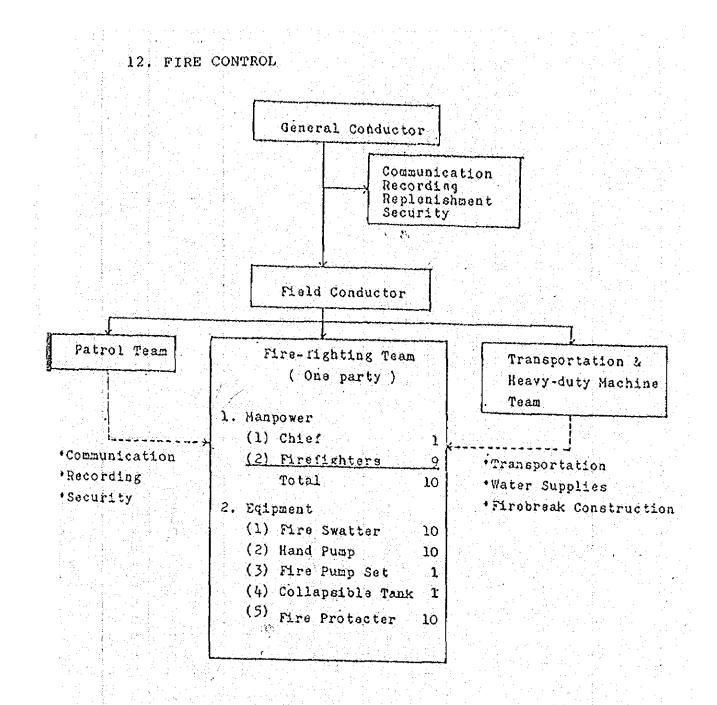
11. GROWTH CURVES IN THE DIFFERENT CULTIVATIONS

Cultivations



GT-1: Land Clearing + Plowing I GT-2: Land Clearing + Plowing I + Plowing II GT-3: Land Clearing + Plowing I + Harrowing GT-4: Land Clearing + Plowing I + Plowing II+ Harrowing GT-5: Land Clearing I + Land Clearing II GT-6: Land Clearing + Plowing I

Strip cultivation is only GT-6



Line of Authority Liaison

Fire Control Organization

t t t			<ol> <li>Safety helmet</li> <li>Safety helmet</li> <li>Safety shoes</li> <li>II. Weeding Hook</li> <li>Fire fighting wear</li> <li>Fire hook</li> <li>Fire hook</li> <li>Hoe</li> <li>Megaphone</li> <li>Hortable shovel</li> <li>Fire extinguisher</li> <li>Portable hoe</li> <li>Gas mask set</li> <li>Sickle</li> <li>Rake</li> <li>Rake</li> <li>Rake</li> <li>Surable hoe</li> </ol>	
M a c h i n e r y	<ol> <li>Vehicles (with CB-Radio)</li> <li>Motorcycle</li> </ol>	<ol> <li>Water pump</li> <li>Fire pump</li> <li>Rater tank</li> <li>Collapsible Tank</li> <li>Tank Truck</li> </ol>	1. Heavy - duty machine 2. Chain saw 3. Bush Cleaner	
	Transportation	Water Supplies	Fire fighting Communications	

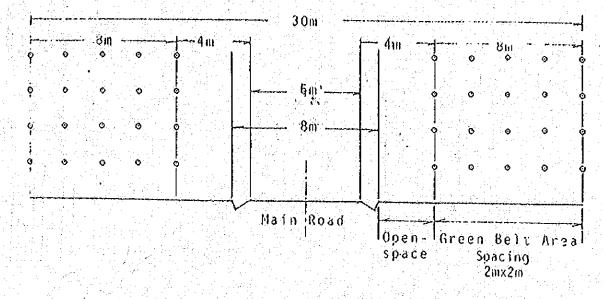
Machinery and Equipment for Fire Protection

## FIREBREAK BELT AND FIRELINE

Туре	Contents
1. Firebreak Belt	
(1) Greeq Belt	an artificial tree-covered break with
	a relatively high density alongside a
	forest road
(2) Covercrop Belt	A covercrop break to suppress alang-
	alang grasses alongside a forest
영상은 전 소문을 위한 것 같이 있다. 같은 것 같은 것은 것 같은 것 같이 있는 것 같이 있다. 같은 것 같은 것은 것 같은 것 같은 것 같이 있는 것 같이 있는 것 같이 있는 것 같이 있는 것 같이 없다.	road
(3) Yellow Belt	an open space cleared free of vegeta-
	tions alongside a forest road
(4) Natural Belt	an existing natural break such as
	a river, a creek or a swamp including
	natural tree stands alongside it
2. Fireline	a working road or a feeder road with-
	out any firebreak along its roadside

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1. Green Belt along Main Road



2. Green Belt along Working Road

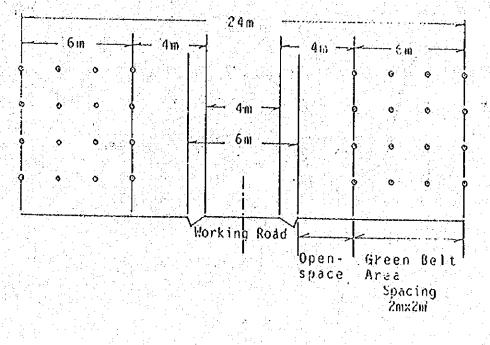
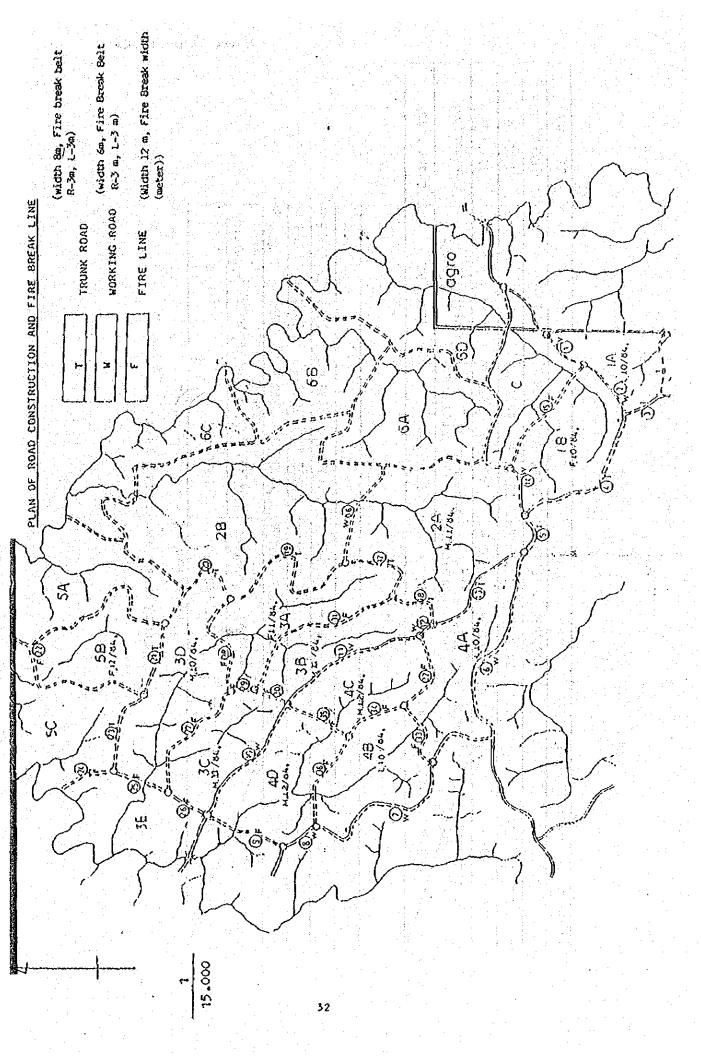


Fig. 2 Green Belt Diagram



Forest road density								
						and the second secon		
Fiscal year's [ Jota]	Total	1982/1983	983	1983/1984	984	1984/1985	985	Grand total
Classification	width	Proposal	Construc- tion	Proposal	Construction	Proposal	Construc- tion	Construction
Main road	9	3800 m	4301 m	3400 m	2972 m			11279 m
Working road	5	16000 m	10717 m	15700 m	16331 m	1900 m		44279-m
Total		19800 m	15018 m	n 00161	19100 m 19303 m	1900 m		5558m
Forest road density								28 (m/ha)

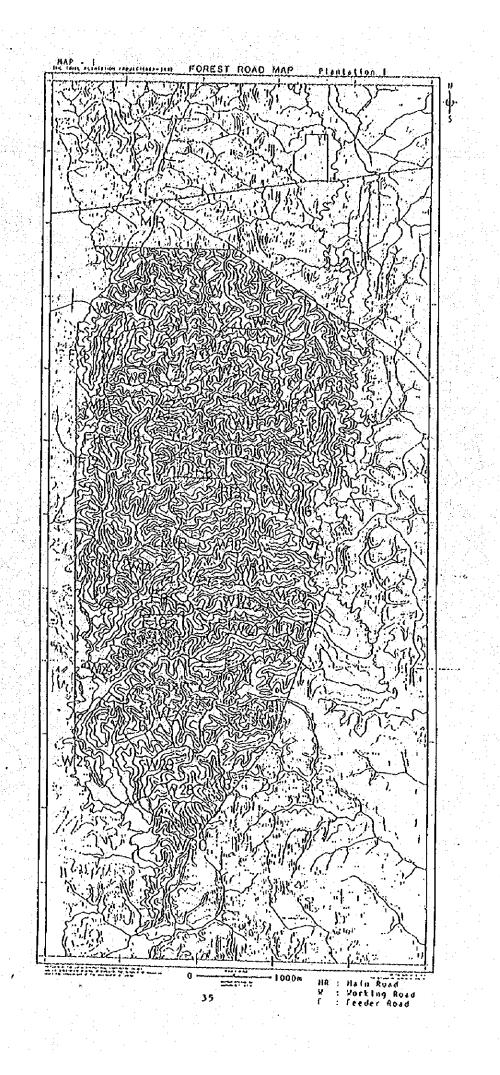
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Forest road in fiscal year.

n I ) 1980/19 truc- Proposal
( Plantation I )1979/19801980/1981Proposal   Construc-proposal   Construc-
(Plantation I) 1979/1980 Proposal Construc-Proposal
(Plantation I 1979/1980 Proposal Construc-
Proposal
sar's Total width

13. FOREST ROAD

		Forest (Plan	Forest road in fiscal ( Plantation II )	fiscal (	year.	
Fiscal year's	Total	1984/1985	985	1985/1986	<b>986</b>	Grand total
Classification	width	Proposal	Costruc- tion	Proposal	Construc- tion	Construction
Main road	8	4900 m	4565 m			4565 m
Working road	9	5200 m	6000 m	2900 m	3120 m	9120 m
Total		10100 m	10565 m	2900 m	3120 m	13685 в
Forest road density						40 (m/ha)
Fire line	9	6000 m	3643 m	5800 m	5104 m	8747 m



Agro, area P P Point Poont Poont . . MR : Maja Rod W : Working Road LEGEND 5. а Х ŝ 9 ú ĥ શુ 

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## 14. ACTIVITY OF AGROFORESTRY

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## Annual Change of Ayriculture Activities

Annual Ghango of Ayriculturn Activities In the Intervention Arup, 1982/1985/1986

I toin	1912 - 1903	1993 - 1994	1984 - 1985	1985 - 1986
1. Participant	30	30	20	
2. Dropoul	6	12	29	21
3. 10.			<b>7</b>	2 - Anna 2 -
participant		6		4
4. Non-USS lot				6
5+ Cultivation Area				
1) Rainy season	29.479 ha	28,393 ha	24,598 ha	21,348 ha
2) Utilization ratio	98.3 %	91.6 %	82.2 %	71.2 %
3) Dry ceason		3.187 ha	5.532 ha	1.357 ha
4) Utilization	the state of the second st			
Ratio		10.6 %	13.4 %	4.5 %
6. Area of main	сгор		1	
1) Faddy	16.903 ha	26.137 ha	19,568 ha	17.237 ha
2) Kaizo	12.540 ha			
3) Feanut	11.170 ha	4.123 ha	8,678 ha	4.501 ha
4) Sucet potato	4.800 ha	0.358 ha	0.176 ha	
5) Chilli	0.177 ha	0.340 ha	0.264 ha	0.137 ha
6) Beans	2.989 ha	0.632 ha	1.027 ha	0.526 ha
7) Tomato	0.450 ha	0.095 ha	0.108 ha	0.097 ha
7. Harvest of ma	in crop			
1) Paddy	9,446 Kg	20,469 Kg	6 69 A 17 -	
2) Neriza	0 Kg	- co)107 Kg	6,984 Kg	7,512 Kg
3) Feanut	7,198 Kg	5,604 Kg	0 111 1/-	
4) Swcet potato	9,798 Kg	840 Xg	9,111 Kg	5,395 Kg
5) Chilli	210 Kg	265 Kg	1,348 Kg	
6) Beans	225 Kg	20) kg	127 Kg	50 Kg
7) Tomato	264 Kg	~145 Kg	40 Kg	
		····) Kg	73 Kg	43 Kg 11 4
8. Amount of proc	Jucad			
1) Paddy	Rp.1,594,000	Rp. 3, 743, 000	Rp.1,435,000	Rp.1,502,000
2) Maizo				,
3) Teanut	Rp.1,249,000	Rp.934,000	Rp.1,861,000	Rp.578,000
4) Steet potato	Rp.057,000	Rp.52,000	Rp. 70,000	
5) Chilli	Rp.96,000	Rn.305,000	Rp.178,000	Rp.75,000
6) Beans	Rp.56,000	Rp.34,000	Rp.42,000	
7) Fotato	Rp.110,000	Rp.52,000	Rp: 24,000	Rp.42,000

37

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## Annual Change of Agriculture Activities **6**5

10 the Intercropping Area

Tum		1982 1983	1985 - 1984	1.081 - 1985	1985 - 1986
, Giu	il amasint of				
199	lucod	Rp. 5,824.000.	Rp. 5,120,000	Rp. 3.643,000	Rp. 2,265,000.
	10.180-104				
1 I I I I I I I I I I I I I I I I I I I	crops				
나는 지기	participants				
	°00::'Y	617 xg/ha	1,106Kg.ha 3	540 Kg/ha	524 kg/ho
	eonu;	239 Kg/ho	1.799kg/ha	1.312 kg/ha	903 kg/ha
	Wood Potato	2,041 kg/ha	2.310kg/ha	2.832 2.9/10	
コーンパント きょうい	<b>5111</b>	440 kg/ha	779%g, ho	481 kg/ho	283 kg/ha
5)	chate	587 kg/ha	1.526kg/ha	676 kg/ha	1,474 kg/ho
Year	Norking hour	5			
per	ho,	1,535 hours	2,300 hours	1,819 hours	1.641 hours
(\$1)	<pre>c participants</pre>			بويديه يتموه بمنتوب ستنداء الحاد وجاوف	
Ann	al mean locom	0 0(			
∴ și×	porticipants .	Rp /132,000	Rp. 542,000	Rp 782,000	8p 760,000
		(100)	(100)	(100)	(100)
0.1	Increa Leca				n an an Anna Anna Anna Anna Anna Martana an Anna Anna Anna Anna Anna Anna An
	gricultura	Rp; 223,000	Rp 217,000	Rp 325.000	Rp 284.000
		(51.6)	61.0	(41,6)	(37,4)
	Incone from	0.000			
•	aple; tent	Rp. 209,000 (48,4)	Rp. 265,000	Rp 457.000	Rp 476.000
		140.47	(48,9)	(58.4)	(62,6)
:iumt	or of Cattle				•
1) (	.ow	23	2)	19	26
	Poultry	651			264

38

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15. MACHINERY AND EQUIPMENT SUPPLIED BY THE JAPANESE COVERNMENT

Fiscal year

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\$264/284 : 2861 / 3861 / 5861 : 5861 / 7861 : 18851 / 18851 : 18851 / 2861 : 18851 / 1861 · 1861 / 0861 : 0861 / 6261 : 9,512,000 : 15,000 00 15,000,000 52,013,000 = 15,000 à 15,000 vo 1 I T ļ ł j ł ł ÷. 744,000 -= 4,467,000 : 34,200,000 -3, 120,000 -+ e J ţ ij Ì ţ 5,010,000 : 5,727,600 : (Rp 76.454.153) 446,000 : 60.000) . 27,400 : (Rp 23.628.721) li I 3, 797, 206 : 351,800 (Rp 39,978-800) 5,990.000) (Rp 39,978-800) 45, 328, 229 1 14, 101, 206 2 5, 990.000) (Rp164.464.324) 494,000 - 564 - 750) : 3,542,000 (RP 23.777.900) ,r ) | | ŧ 1 8,525,000 : 1, 367,000 : (Rp 50 9,798,229.1 5,477,000 : 1,714,000 : 10,976,200 : 2, 109,000 1 3 1 4. 5 - 2 3, 300,000 : (Ap 77,886,303 ; (Rp 11,028,003 : 5,467,000 : 39,217,000 : 7,654,000 = 7,314,300 : 595,000 = • 3,311,000 19,641,000 : 5,519,400 : · 103,829,407 · 106,905,688 · •• 26, 311, 900 : 16,510,500 -4,284,800 + 9,224,600 : 9,795,000 : 15,613,488 : ŝ 32, 144,000 % 18,822,427 1 20,510,000.1 19,054,000 1 2,109,500 : 4,016,000 1 4,001,500 1 1,105,450 : 1,216,050 : 850,5001 ŀ 46,782,260. 1 ۲. 11,855,000 1 17,859,000 ± 1,782,000 1 1,249,900 1 1,000,000 1 6,785,040 1 . 814,800 ÷ 16, 735, 125 104,867,125 ... ..... ы -Heteprological observation Freight and insurance Forest protection сH, Non construction Forest ecology ત 6 Rora intra Geraral Use Ecteriment Surreying جد Plat ting the larty Use Cor 4 ۴

lotal;534,960,958 yen

** ( ) means the amount Purchased in Indonesia

+ Rp.170,444,323

Eollow-up	1386/1987 1387/1988 10tal	6,335	40,812 48,000	88		*Tending		4,700		<b>78,850</b>	154,000	285,861 327,260 2,177,550		105,000 (Uterna Juniturana Juniturana) 46,905	118,218 24,835 100000 1000000 1000000000000000000000	285, 861) (32,6, 760)	
	1985/1986	6,484	100,287	35, 664	Plantation	1,587	*Include Plantation	3,890		112,950	75,100	335, 504					
Extension	1983/1984 1984/1985	13, 758 11,053	96,378 104,496	46,896 33,492	nvestigation Evaluation 5.100 3.600 f	2,500 2,130	; ;	6, 750, 4, 534	21 890	,]127,123	150,751 61,340	352, 523 344, 168	195,941 195,127		183,728 115,549	(379,669) 310,676)	
(L ^o cal Cost)	1981/1982 1982/1983	•	84,841 96	33,708 46	nvestigation 5.100 3			7,905 6	38,690 21	بنجسبونه و	178,527 160	367,138 352	242,997 195		124,141 183	(367,138)(379	
		10,100 16,117	63,926	15,780					51 R75	) ) ) ,	127,625	269,306			•		
16. Sudget allocation	1979/1980 1980/1981	10,432	28,450	7,200					45, 22A		48,672	139,974	، بری بر ایک بر ایک بر بر ایک بر بر ایک		-		
16. <i>8</i> udg	1979/1980	8,850				Planning 7.860			7,350		33,396	57,456	•				
	Dèscription	1. Nursery	2. Plentation	3. Forest road construction	4. Forest protection	5. Forest Ecology	6. Agroforestry	7. Road maintenance		tetunotogy and Experiment	9. Administration	Total	(1).01P (2)03P	)	(4).INPRES		

		<b>c</b>	Durant				•	
	<u>17. Diary 1</u>	for the	Project iv	······································		1972		
		נ 1975 נ			1974	2	سر : ر	Year
		Jun 1 - Jun 20					2	Date
		www.www.www.www.u.w.				بر المتحد ومربو معرف م		in the second se
		out t				Mr. Soed Kehutanan Japanese		
		Survey the mos						Meet
		Team st su				Š, Š	ω	Meeting/Event
		Survey Team surveyed in No: the most suitable area for			13. 1	Soedjarwo (Director ttanan , at present mese Government on		vent
		e are						
		à lí foi M				of Direc Minister afforest		
						0 rr		
						rate f For ion a		
		th and South Sumate the afforestation p				orate of Forestry of Forestry/ Menh tion activity in		۲.
		Sumat				restry / Menhy ty in J		Expert
		tera t proje				y the hut) Indd		
		ra to find roject and				the Republic Indonesia/ Dirjen nt) visited Japan and required ndonesia.		
		දි දි				ed u		
		cjded				Indo		
		Η; c				nesia and		ounts
		о Х				ı∕ Diı requi	S	Counterpart
		댰				Lien		п
 ≰≩ ຊ	HA W A	s S						
ver)	Mr.Jiro Na Mr.Kazuo O nomy) Mr.Kazuto J Mr.Kazuto J Management Management	ra to find roject and decided it to be the project area. Survey Team				the Republic Indonesia/ Dirjen ut) visited Japan and required the cooperation of the Indonesia.		Mi
Er o ni	o Navi uo OX uo OX nent) A					¥ti on	6	ssion
IRONC	NURA (L A (For RIMIT					о ћ		Mission/Quest
drinator) Mr. Voshio HIRONOKA (Obser Ver)	1.Mr.Jiro NHAURA (Leader) 2.Mr.Kazuo OKA (Forest Eco romy) 3.Mr.Kazuto ARIMINSU (Forest Management) 4.Mr. Yoshihiro MINE (Coor-					<b>B</b>		
IR	or <u>ře 18</u>			وه المعيد معا معلمه				

namo/vorsstu	9	Kishio OHTUKU (Leader) Jiro NAMTRA (Flanning) Xazuto ARIMITSU (Forest Soil) Kiyoto FUNATO (Afforestation) Tadao DHARA (Aerophotogrammetry Takashi UFSUGI (Coordinator)	Planning Team Mr. Jiro NAWRA (Leader) Mr. Ryoji HAYASHI (Planning) Mr. GRNUKI (Forest Man Mr. NAGATSURA (Coordi-	Team Akira KURANARI Susumu SUZUKT Susumu SUZUKT Kazuto ARIMUTSU Hiroei CHIKAARASHI Mamabu TOSHIOKA Mamabu TOSHIOKA Shun'ichi MI2UOCHI
Counterpart	5	about Benakat 1. Mr. 3. Mr. 5. Mr. 6. Mr.	<b>ri ਨੇ ਨੰ</b>	d in Bappenes list verment. 1. Mr. 3. Mr. 5. Mr. 6. Mr.
lxpert		h the Indonesian Government on project in grasslands of	ng Team was dispatched to Indonesia	cooperation project was listed in BAPPENAS list requested to the Japanese Government. Is project was concluded
Meeting/Event		Land Survey Team negotiated with the Indonesian Government about the planning of the afforestation project in grasslands of Benakat and Subanjerji, South Sumatera.	Based on 2md survey, the plaming T	The afforestation development cooperation as ATA-186, and was officially requested The Scope of work (S/W) for this project
Year Date	1	1975 Nov 26 -Dec 21	1976 Aug 8 - Aug 14	1977 Apr Awg 17 - Sev 2

Mission/Guest	2	Team Mr. Toshio HAYASHI (aerophoto) Nov 29 - Dec 8 Mr. Itsuo arisawa (controlling) 1978 Mar 15 - Mar 21 Mr. Norimitsu MrY22KI (cordina or) 1978 Mar 15 - Mar 21	Team 1978 6.8-8.16 Erawa ditto ditto ani ditto A 1978 5.20-6.8 A 1978 5.20-6.8 YaZaKI 1978 3.15-3.21	Survey Team GUCHI (Leader) Ra (Afforestation) ABE ( ditto ) TUVAMA ( ditto ) OTO (Forest Soil ) OTO ( ditto ) TA ( ditto )
Counterpart	a da a ser en en entre se a ser <b>5</b> a parte en entre la ser entre la ser		Team 1. Mr. Tadayoshi Banpio 2. Mr. Takeshi KISHTKAWA 3. Mr. Takeshi KISHTKAWA 3. Mr. Takeshi SETOUJI 4. Mr. Takeshi SETOUJI 5. Mr. Teiji YOSHIJMNI 6. Mr. Vosuke TANAKA 7. Mr. Norimitsu MIYAZAKI	in accordance 1. Mr. Katsumi SAKAGUCHI 2. Mr. Shozo YONEKURA 3. Mr. Taichi WirnYABE 4. Mr. Toshilaru FULUYANA 5. Mr. Yoryo HASHIMOTO 6. Mr. Tadao OHARA 7. Mr. Teruchi SUGITA
	4	Wy covering 50.000 ha in	ep para la compara la comp	lamings were performed cooperation project.
Meeting/Event		Benakat was conmenced Benakat was commenced	Tropical charts connerced to b	The soil survey and afforestation I with the afforestation development
Year Date		1977 Sep	1978. May	Jun 20 Jul 29 29

Mission/Guest	<b>6</b>	Team Tadayoshi IMAI Tadao OHARA Kiyishi MCHIZUKI Hircaki MASUI Hircaki MASUI Hiroshi ITO Shiro MORISHITA Toru TAGUCHI	as apointed as pril)	jiwa. Team (1979 Apr 2 - Apr 17) r. Kenji HIRO (Leader) r. Nasakiyo KAWGICHI (Planning) r. Skoidhi FUJINO (Forest Soil) r. Ryosuke KATO (Afforestation) r. Tadashi NAKAMICHI (Coordinator)	Survey Team Pyosuke KATO (Leader) Katsuvuki OHMI (Afforestation) Hirota YAMATE (Nursery) Tsuvoshi TAKASHIMA (Forest Road) Tadao OHBRA (Affoerstation) Tadao OHBRA (Affoerstation) Tadao OHBRA (Affoerstation) Torshifumi YASUMI (Forest Ruad) Yoshifumi VASUMI (Forest Ruad) Tomomitsu UCHIDA (Coordinator)
Counterpart	<b>S</b>	는 너 따 속 약 야 난 두 너 때 속 약 야 난	Ir. M. Wazir Nenckeman was applinted as Field Manager (to 1980 April)	i HORI, Head of th 1. Mr. 1 2. Mr. 5 3. Mr. 5 5. Mr. 5	1. Kr. Tyosu 2. Mr. Tyosu 3. Mr. Tyosu 4. Mr. Tsuyc 5. Mr. Tsuyc 6. Mr. Eiji 8. Yr. Soshi
Expert	and the second secon	1 of Forest resources in		was. signed between Mr. Moch Harris Sceranggadjiva. Dirjen Kehutanan, and Mr. Kenji HORI, Head of the Team. Proyek Percobaan Tanaman Hutan) 1. Mr. Ke 2. Mr. Va 3. Mr. Su 5. Mr. Ta	vey Team was dispatched to
Meeting/Event		Survey Team for the analization of South Sumatera		The record of Discussion (R/D) Director of Forestry Planning, Japanese Implementation Survey The Trial Plantation Project (P (ATA-186) has been started.	The Japanese Implementation Survey Benakat
Year Date	1	1978 Nov 14 1979 - Jan 12	1979 Apr 1	Apr 12	Sep 11 - Oct 14

<ul> <li>Year Date Neeting/Dvent Dopart</li> <li>1979 Sep 19</li> <li>Nov 16</li> <li>Nov 16</li> <li>Nov 16</li> <li>Mr. Katsuyuki OHD ed as the first, ed as the properties of the truk forest road, in Sep-Nov</li> <li>Dec 18</li> <li>The proposal for model infratructure from office in Pacture for 14 Messns, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> <li>Jam 14</li> <li>Messns, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> <li>Jam 14</li> <li>Messns, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> <li>Jam 24</li> <li>Massens, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> <li>Jam 24</li> <li>Messns, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> <li>Messns, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> <li>Messns, K.OHM. and Y. SAKANDO'S equipment arrive on April 26 1980</li> </ul>	Counterpart Mission/Ouest		<ol> <li>Ir. Socharto Socnarmo was appointed Project Nanager (to 1980 Feb 17)</li> <li>Ir. Arif P Sagala was appinted Assistant Project Co-Manager (to 1983 Jul)</li> </ol>	OHMI, the Team Leader and Expert for Silviculture, was dispatch st, expert (to 1981 Oct) the actual starting point of the project.	Mr. Ryosuke KATO, The Chief Advisor ( to 1982 Feb) Mr. Yoshiichi SAKAWOTO, The Liaison Officer (to 1981 Dec) were dispatched for the Porject.	structure from Japanese Government was sent by the Japanese Government , runk forest road, nursery, nursery road and nursery beds.	<ol> <li>Ir. Zulkifli Mulsani (Silviculture) 1979 Sep</li> <li>1980 Apr</li> <li>1980 Apr</li> <li>1979 Nop -</li> <li>1983 Jan</li> <li>Were appointed c/p for the Porject</li> </ol>	The Temporary Project Implementation office in Palembang was opened in South Sumatera Forestry Regional Office. Office. The Project Office in Bogor was opened at the corner of the office of the Sub-Directorate for Reforestation and Rehabiliattion.	ed at Palembang Airport, and were delivered from the Airport	
A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A     A <th></th> <th></th> <th></th> <th>katsuyuki s the firs date was</th> <th>Mr. Mr.</th> <th>proposal for model infra construct a part of the 1</th> <th></th> <th>The Temporary Project Implementation office in Palenbang Office. The Project Office in Bogor was opened at the corner of and Rehabiliattion.</th> <th>Messrs. K.OHMI and Y. SAKAWOTO'S equipment arrived at Palembang Airport, on April 26 1980</th> <th>the px 1,520 m ry : 1. d : 10</th>				katsuyuki s the firs date was	Mr. Mr.	proposal for model infra construct a part of the 1		The Temporary Project Implementation office in Palenbang Office. The Project Office in Bogor was opened at the corner of and Rehabiliattion.	Messrs. K.OHMI and Y. SAKAWOTO'S equipment arrived at Palembang Airport, on April 26 1980	the px 1,520 m ry : 1. d : 10
		2	Sep	Nov 16	Dec 17	Dec 18		Dec 29 Dec 31		- <u>1</u> - <u>1</u> - <u>1</u>

Date	Meeting/ Event	Expert	Counterpart	Kission/ Guest
			Ir. Syahrir was app	Ir. Syahrir was applinted Project Manager
12		Mr. Seishi MIURA (For to Mar 11, 1982	(Fdrest Protection) was	Protection) was dispatched for the Project
Mar 19 Jun 15		Mr. Kiyobiko YAMAZAKI for the model infrast	(Forest Civil Engir ructure of the Proje	Mr. Kiyohiko YAMAZAKI (Forest Civil Engineering) performed the supervision for the model infrastructure of the Project
Mar 21	An item on the provision of special by both Indonesian and Japanese side	of special panese side	the Japanese Gover	measure by the Japanese Government was added after agreement
	The first equipment supp arrived in Benakat.	supplied by Japan arrived at	Falenbang port.	on July 31, 1980 these equipment
331		Mr. Masaji KNMSAKI	(Nursery) was dispate	was dispatched for the Project.
og .			Mr. Zulkifli Mulsarli was ar of Ir. M. Wazir. Nengkeman.	Zulkifli Mulsari was appointed Field Manager in place r. M. Wazir. Nengkeman.
р Ч	The Technical Cooperation all problems closely con	on Planning Survey Tea mected with the Proje	n led MR. K. KOHTARN rt activity were dis	The Technical Cooperation Planning Survey Team led MR. K. KOHIMPH was dispatched to Indonesia. all problems closely connected with the Project activity were discussed and the result of dig
	ion were	n the form of minutes.		Planning Survey Team :
· · · · · ·				Leader : Mr. Katsuhiro KOHTARI (JICA) Mr. Seinosuke KADOYA (Forestry Agency) Dr. Kazuto ARIMITSU (Forestry and Forest Products Research Institute) Miss. Noriko NANBA (JICA)
Jun 14	The First Joint Steering plan, etc. were placed ir	d Group Meeting was held in Jakarta, in the agenda.	and the second	the forgress report and operation
Jun 20	<u>Pinus</u> Merkusii seeds w	seeds were sowed as first tun	tune sowing at the Project	
•*				

rear	Date	Meeting/ Event	Expert	Counterpart	Mission/ Guest
, eff	2	3	$\mathbf{r}_{i}$	S	
1980	Jun	Temporary Project Implementation Center Office in Benakat was opened.	entation Center Office	in Benakat was ope	
	Ţvŗ	Temporary facility which	was built by Indonesia	m Government funct	Temporary facility which was built by Indonesian Government function sa werehouse. and temporary domitory.
	Jul 30		Mr. Koji TASHIRO (Fore	st Engineering) wa	Mr. Koji TASHIRO (Forest Engineering) was dispatched for the Project for April , 1984
	Sep 18	Manual land preparation was started in trial plantation field.	was started in trial pl	antation field.	·····································
· · ·	Sep 22		Mr. Hirota YAMATE (Nur	rsery) was dispatch	(Nursery) was dispatched for the Project to April , 1984
	Sep 25	Potting House for the nursery was completed by the Japanese Government.	rsery was completed by	the Japanese Gover	
	- Sep 17 Dec 16		24 (N - 44)	Messrs M. Wazir. N. (Senior cou Zulkifli Mulsani (Silviculture J (Nursery from Sep 17 to Dec 16) by JICA	Messrs M. Wazir. N. (Senior course, from Sep 17 to Oct 17), 2ulkifli Mulsani (Silviculture from Oct 1 to Dec 16) and Rardjono (Nursery from Sep 17 to Dec 16) were accepted as the first trainees by JICA
	Oct 30	The secon Joint Steering Group Meeting W and machinery supplied by Japan etc were	Group Meeting was held by Japan etc were placed	1 in Jakarta, annua 1 on the agenda.	Group Meeting was held in Jakarta, annual plan, budget, handling cost for equipment y Japan etc were placed on the agenda.
1981	Oct 30 Jan 13	Construction of drinking underground water for dr	water facility was dor inking water did not su	he until January 13 loceed because of t	Construction of drinking water facility was done until January 13, 1981. However, theeffort to get underground water for drinking water did not succeed because of the difficultly to reach the vein.
1980	Nov	The sprinkler for the nursery was put together under the short term expert's guidance.	rsery was put together	under the short te	m expert's guidance.
	Nov 23	The advisory Team led by Mr. T. MATSUDA advice and guidance on the technical and	Mr. T. MATSUDA he technical and	ispatched the project in order to give t nistrative viewpoints.	was dispatched the project in order to give the Project . administrative viewpoints. The Advisory Team
					Mr. Takashi MATSUDA (Forestry Agency) Mr. Katsura WATPANABE (J I C A) MR. Osamu TAKADA (Forestry Training Insti
· '. ,	Dec 8	First Trial Planting we	Planting was done with Albizia falcata seedlings.	lcata seedlings.	
	Dec 9	Actual planting activity in the field wa	s stal	rted with Albizia falcata seedlings.	cata seedlings
	•			• • • •	

Meeting/ The Living Fa and arrange t and arrange t for equipment for equ	Meeting/ Event         Depert.         Counterpart         Mission/ Guest           3         4         5         6         6           The Living Facilities Design Team led by Mt. K. TWANNSHI Visited the Porject in order to discuss and arrange the design of the facilities for the living circumstance.         6         6           The Living Facilities Design Team led by Mt. K. TWANNSHI Visited the Porject in order to discuss and arrange the design of the facilities for the living circumstance.         6         6           Construction work of the temporary storehouse in order to cover the shortage of storehouse for equidance to wedding by the use of ban curters         10 (CA)         0 (1 (CA)           Construction work of the temporary storehouse in order to cover the shortage of storehouse for equidance to wedding by the use of ban curters         Mt. Association and machine and machine and machine and machine to an order to cover the shortage of storehouse for equidance to wedding by the use of ban curters         Mt. Schicki dim (7 (CA))           Repert to guidance to wedding by the use of ban curters         Mt. Schicki dim (7 (CA))         Mt. Schicki dim (7 (CA))           Repert to guidance to wedding by the use of ban curters         Mt. Schicki dim (7 (CA))         Mt. Schicki dim (7 (CA))           Repert to guidance to wedding by the use of ban curters         Mt. Schicki dim (7 (CA))         Mt. Schicki dim (7 (CA))           Repert to guidance to free special allocance for the remore runid arawould be supplied or not for the expert and the Project.
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		<u>con</u> (Forestry Training Institute) (Forestry Agency) ICHI (J.I.C.A)				<b>but</b>	Ř			Infrastructure were dispatched, Mr. T. TRKHASHI Infrastructure were dispatched, Mr. T. 1001 Du. M. 2730	ten expert	Ķ
		<u>cor</u> (Forestry Trainin (Forestry Agency) CHI (J I C A)			žit.	and lorn bridges were done in recover the two bridges damaged during	by Mr. R. MATSUVAMA activity nad discuss	(JICA) (NC2FF) (JICA)	(JICA) (JICA)	ML. T. 1	community and Dr. Y.IZUAITYANA as working a second se second second sec	the Project
Mission/ Guest	9	Consultation Mission Mr. Masato FURUXA (Forestry Tra Mr. Tatsua OKA (Forestry Age Mr. Tadashi NEKAMICHI (J I C A)		ortage done. bry and	carried c	and iorn bridges were done in recover the two bridges damage	Mr. R. N tivity na		AWA	Lispatched	Dr. Y. 12U er 12, 19	dispatched for the
Missi		Consultation Mission Mr. Masato FURUXA (FC Mr. Tatsua OKA (FC Mr. Tadashi NWAMICH1		o cover the shortage field site was done. and a laboratory and	ntre was	n bridges the two	ct led by roject ac	Guidance Team Mr. Ryozo Marsuyawa Mr. Haruo TSUCHIYA Mr. Isao KABURAKI	Yoshizo TAKIZAWA Eitaro MITOMA	re were d	nity and il Novemb	was dispa
		<u>Consultatic</u> Mr. Masato Mr. Tadashi Mr. Tadashi		0	aining Ce		ion Project led bbserve Project	Guidance Team Mr. Ryozo Mary Mr. Haruo TSUX Mr. Isao KABUI	Mr. Yosh Mr. Eita	rastructu	the comuut	
part		Leader :	facilities was done	thing Center in order t of the experts in the m ² . Workshop of 220m ²	Plantation Training Centre was carried out.	of the sprinkler pond sprinkler pond and tp	Cooperat order to	Leader :				KATOH (Team Leader and Silviculture) 3, 1983
Counterpart	5		acilities	ning Cent of the ex m ² . Works	Trial Plan	the spri rinkler p	Technical Coop site in order			term experts for the pilot on the design of the pilot	on socio eco plan of dry	n Leader
			1.12.5	tion Trai ondition Y_of 580	t t	venent of in the sp	d Forestry 1 the Project			n experts the desirc	expert on imental pl	ATOH (TEa
Expert	5		eparation A was 4.0	e Trial Plantation Trai e the living condition ed of dormitory of 580	merstone	ury Improven of water in	ure and sited the			The short ten as expert on 4	as the e	Mr. Kuniaki KA to October 13,
			site pre eparation	The Trie rove the isted of	d the Q	r Temporary leakage of	Agriculture JICA), visi ct activity			The s as ex	T U C S S S S S S S S S S S S S S S S S S	유 분 8 * 8
Event			work for f site pr	work for od to imp tion cons a of 92 m	of layin	works fo rove the tson	Team for rector, the Porje					
Meeting/	e		Construction work for site preparation of new Total area of site preparation was 4.000 m ²	Construction work for The Trial Plantation Training Center in order facilities and to improve the living condition of the experts in the The construction consisted of dormitory of 580 m ² . Workshop of 220m ⁴ training room of 92 m ²	The cercmony of laying the cornerstone of	Construction works for Temporary Improvement of the sprinkler pould order to improve the leakage of water in the sprinkler pond and to the rainy season.	The Guidance Team for Agriculture and Forestry Technical Cooperation Project led by Mr. R. (Executive Director, JICA), visited the Project site in order to bbserve Project activity to develope the Porject activity.					
			Tota	t The Construction the	The	Cons orde the	2 (0 H					
Date	7		Jul 25 Jul 30	Jun 25 Mar 20	Aug 20	Sep 7 Oct 10	oct s oct s			Oct 14		Oct 14
Year	~		1	1982 -	1981		1 a <b>1</b> a			· 		

Depert	The Pilot Infrastructure Implementation Work Buidance Team led by MR.K. KOHTARI, was dispatched to make the detailed plan for the pilot infrastructure, teh scheme which was made by Mr. FURUTA's Consultation Mission served as the basic plan.	Work Guidance Team Leader : Mr. Yoshio ACKI (INAFUUI Co. Ltd) Mr. Yoshiro YACHIUNE (INAFUUI Co. Ltd)	t Steering Group Meeting was held in Jakarta. Review of the last meeting progress Y problem in nuresry, delay of building construction, survival ratio of seedlings in the 3 cost for the equipment, etc. Were placed on agenda.	Mr. S. SUGINOTO arrived Indonesia as the successor of Mr. R. RATO (Chief Advisor) Mr. R. RATO's assignment finiched and head and		tion irohung Center was started as accomedation use. It for Protection Fence was done in order invasion by cattle, goats and thives ; the fence was 1.475 M	Mr. Victor. M. Sinaga had been appointed Project Manager in Place of Ir. Soedjadi Hartono. Mplementation of the Project activities had become INPRES except for the General management.	for Filot Infrastructure was done in order to implement the Agr This construction work consisted of a road of 7224 m, bridges of one unit, werehouse of ohe unit, etc.	Resident Representative of JICA Jakarta Office made a contract with the director of Pt. Pramantato construct the pilot infarstructure for Agroforestry.
Meeting/ Event Expert	The Pilot Infrastructure Implementation the detailed plan for the pilot infrast Mission served as the basic plan.			Mr. S. SUGINOIO Mr. R. RAID'S A		х У Ч	The budget for implementation of the Proj	Construction Work for Filot Infrastructur activity smothly. This construction work of one unit, pond of one unit, werehouse	Resident Representative of JICA Jakarta O construct the pilot infarstructure for Ag
Year Date	L N N N N N N		1982 Jan 5	Feb 1 Feb 16	Feb 24 Mar 22	лаг Маг	Mar 30 Apr 1	May 5 Van 15 15	ទ អា ភ

2     3     4     5     6       Jun 7     The construction of the plact Infrastructure for Agrodocestry was started.     6     6       See 21     The Fifth Jourt Steering Group Meeting was baid in Jakastra. Review of the last meeting, progress report, and other matters was plad on the system.     6     6       See 21     The Fifth Jourt Steering Group Meeting was baid on the system.     6     6       See 21     The Fifth Jourt Steering Group Meeting was baid on the system.     6     6       See 21     The Fifth Jourt Steering Croup Meeting was baid on the system.     6     6       See 21     The Fifth Jourt Steering was baid on the system.     6     7       See 21     Encoder to undergo medical treatment.     8     9     9       Oct 9     Kr. K. MINH Wo was victure of a traffith accident on September 30 last for Jopen in order to undergo medical treatment.     6       Oct 15     Kr. K. MURD Wo was victure on medical treatment.     8     7     7       Nor 15     Kr. K. MURD Wo was victure on medical treatment.     8     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1	Date	Meeting/ Event Kission/ Guest
The construction of the Pilot Infrastructure (or Agrotocestry was started. The Fifth Joint Steering Group Meeting was held in Jukarta. Review of the last meeting, progress report, and other matters were placed on the way to Benakat. He is still undergoing making transment. Mr. K. KITMUT, supervioar for vokal Infrastructure, was seriousely injured in sew trainic accident on the way to Benakat. He is still undergoing making transment. Pilos contract between the DGRM and agrotocestry participants was done for the agrotofrastry scheme. Filos contract between the DGRM and agrotocestry participants was dispetched in order to matine machinery and give advice on mechinery maggement. Phase contract between the DGRM and sprotocestry barriorgomes and the agrotofrastry scheme. Phase contract between the DGRM and sprotocestry participants we done for the agrotofrastry scheme. Phase contract between the DGRM and sprotocestry participants we done for the agrotofrastry scheme. Phase contract between the DGRM and sprotocestry barrior context and the matter and the Agrotofrestry Scheme Guidance Team Led by Mr. A. DKH, was dispetched in order to matine the Agrotofrestry Scheme Guidance Team Led by Mr. A. DKH, was dispetched in Corestry Agency Manuster of Agricol tract to guidance in agrotofrestry activity. Munister of Agricol two for the Republic of Indonesia and Mr. Munister of Agricol two for different and Mr. Munister of Agricol the Project.		<b>4</b>
21       The Fifth Joint Steering Group Meeting was hald in Jakarta. Review of the last meeting, progress report, and other matters were placed on the agerda.         20       Mr. K. WTRNU, superviser for Model Infrastructure, was seriousely injured in sew traffic accident on the way to Benkat. Re is still undergoing medical treatment.         9       Mr. K. MTRNU, superviser for Model Infrastructure, was seriousely injured in sew traffic accident on the way to Benkat. Re is still undergoing medical treatment.         9       Mr. K. MTRNU who was victum of a traffit accident on September 30 laft for Japan order to undergo medical treatment.         11       Mr. K. M. And Agnoforbertry participants was done for the agnoffrest treatment.         12       Mechinery maintenance feam led by Mr. R. Mudan was dispatched in order to maintenance mechinery and give advice on mechinery management.         12       Mr. Toda or MCKKKUT (Creestry Scheme anchinery and give advice on mechinery management.         13       Mechinery management.         14       Mr. Takaturo Sufficial Creestry Scheme Mechinery Meintenance Team         12       Mr. Takaturo Sufficial (Treature team         13       Mr. Takaturo Sufficial (Treature team         14       Mr. Takaturo Sufficial (Treature team         15       Mr. Takaturo Sufficial (Treature team         16       Mr. Takaturo Sufficial (Treature team         17       Mr. Takaturo Sufficial (Treature team         18       Mr. Mre	4	Pilot Infrastructure for Agroforestry was
30       Mr. K. ATTANT, supervicer for Model Infrhestnoture, was seriousely injured in sevence traffic accident on the way to Benakat. He is still undergoing medical treatment.         9       Mr. K. ATTANT who was victim of a traffic accident on September 30 left for Japan medical treatment.         1       Flist contract between the DORLE and agrotometry participants was dispatched in order to meinte machinery maintenance Team led by Mr. T. DURLAR, was dispatched in order to meinte machinery maintenance Team led by Mr. T. Poundary Maintanance Team.         1       Leader (Mr. Y. Yoshitaka of CORL (Torestry Septement).         2       Machinery and give advice on machinery maintenance Team.         1       Leader (Mr. Yoshitaka (Forestry Septement).         2       Minister of Agricoluture (ORD (Mr. 1) To A)         2       Minister of Agricoluture of the Republic of Indonesity and for.         1       Minister of Agricoluture of the Republic of Indonesity and for.         2       Minister of Agricoluture of the Republic of Indonesit and fr.         3       Minister of Agricoluture of the Republic of Indonesit and fr.         4       Minister of Agricoluture of the Republic of Indonesit and fr.         4       Minister of Agricoluture of the Project.	51	
9       Mr. N. MTBANI who west victim of a traffic accident on September 30 left for Japan order to undergo medical treatment.         1       First contract between the DGRLM and agroforestry participants was done for the agroofrestry scheme.         1       Mechinery maintenance Team led by Mr. 1. DKUEARA was dispetched in order to maintenance the machinery and give advice on machinery minagement.         15       Mechinery and give advice on machinery minagement.         16       Machinery Maintanace Team         17       Machinery Maintanace Team         18       Minister of Agriculture of the Republic of Indonesia and Mr. Morthanace Team         19       Minister of Agriculture of the Republic of Indonesia and Mr. Toon AKURAMA (Forestry Maintanace Team         10       Minister of Agriculture of the Republic of Indonesia and Mr. Toon AKURAMA (Forestry Maintanace Team         10       Minister of Agriculture of Indonesia and Mr. Toon AKURAMA (Forestry Maintanace Team         10       Minister of Agriculture of Indonesia and Mr. Toon AKURAMA (Forestry Maintanace Maintanace Maintanace Team         10       Minister of Agriculture of Indonesia and Mr. Toon AKURAMA (Forestry Maintanace Team         10       Minister of Agriculture of Indonesia and Mr. Toon AKURAMA (Forestry Maintanace Maint	Sep 30	superviosr for Model Infrastructure, was seriousely injured in sevent on the way to Benakat. He is still undergoing medical treatment.
First contract between the DGRUR and agrofonestry participants was dispatched in order to meinta         15         15         16         17         18         19         19         10         10         11         11         12         13         14         15         15         16         17         18         19         10         11         11         12         12         12         13         14         15         15         16         17         18         19         110         111         112         112         113         114         115         116         117         118         111         111         111         111         111         111         111	ማ	
1       Machinery maintenance Team led by Mr. T.DKURAR was dispatched in order to mainten machinery and give advice on machinery management.         15       machinery and give advice on machinery management.         16       Mr. Yoshitaka GKURAR (Forestry Agency)         17       Mr. Yoshitaka GKURAR (Forestry Agency)         18       Mr. Yoshitaka GKURAR (Forestry Agency)         19       Mr. Ternoni GGHA (J T C A)         10       Mr. Hackon SATTCH (J T C A)         11       Mr. Hiroshi INCH (J T C A)         12       Mr. Hiroshi INCH (J T C A)         13       Mr. Hiroshi INCH (J T C A)         14       Mr. Hiroshi INCH (J T C A)         15       Mr. Hiroshi INCH (J T C A)         16       Mr. Hiroshi INCH (J T C A)         17       Mr. Hiroshi INCH (J T C A)         18       Mr. Hiroshi INCH (J T C A)         19       Mr. Hiroshi INCH (J T C A)         10       Mr. Hiroshi INCH (J T C A)         11       Mr. Hiroshi INCH (J T C A)         12       Milane Team         13       Mr. Hiroshi INCH (J T C A)         14       Mr. Hiroshi INCH (J T C A)         15       Mr. Hiroshi INCH (J T C A)         16       Mr. Hiroshi INCH (J T C A)         17       Mr. Yoshi (J T C A)		agroforestry participants was done for the agroofrestry
Image: Mr. Yoshitaka OKURRRA (Forestry Agency)         Mr. Ternori COMDA (INFUUI Corestry Engineerin         Mr. Ternori COMDA (INFUUI Co. Lud)         Mr. Ternori COMDA (INFUUI CO. Lud)         Mr. Katsuro Sairohi (J I C A)         Mr. Katsuro Sairohi (J I C A)         Mr. H. INCH, was dispetched to Indon         in order to guidance Team led by Mr. H. INCH, was dispetched to Indon         in order to guidance In agroofrestry activity.         Ouidance Team         Mr. Hinoshi INCH, was dispetched to Indon         Mr. Hinoshi INCH (UFPN)         Mr. Bun'emon KOSUGTAMA (Forestry Agency)         Mr. Yoshio FUNAYAM (Forestry Pagency)         Mr. Yoshio FUNAYAMA (Forestry Pagency)         Mr. Tooni ANUNAMA (Forestry Pagency)         Mr. Tooni ANUNAMA (Forestry Pagency)         Mr. Tooni ANUNAMA (Forestry Pagency)         Minister of Agriculture         of the Republic of Indonesia and Mr.         Minister of Agriculture         of the Republic of Indonesia and Mr.	Nov 1 Nov 15	led by Mr. T. DKUERRA was in machinery management. <u>Machinery N</u>
The Agroofrestry Scheme Quidance Team led by Mr. H. INCH, was dispatched to Indon in order to guidance in agroofrestry activity. <u>Guidance Team</u> <u>Guidance Team</u> <u>Research Inch</u> <u>Mr. Bun'ewon KOSUGITAMA (Forestry naf Forest</u> <u>Research Institute)</u> <u>Mr. Tooru ANUKAWA (Forestry naf Forest</u> <u>Indonesia inspected the Project.</u> <u>Japanese Ambassador to</u>		Mr. Yoshitaka OKUFARA (Forestry Agency) Mr. Tadao YOKOKOHJI (Forestry Engineering Mr. Terunori GOHDA (INAFUJI Co. Ltd) Mr. Katsuro SAITOH ( J I C A )
Minister of Agriculture of the Republic of Indonesia and Mr. Indonesia inspected the Project.	Nov 29 Dec 12	was dispetched to Indon (JTTA) GITAMA (Forestry Agency) WA (Forestry naf Forest Research Institute)
		of the Republic of Indonesia and Mr. Project.

Puest		in the agroofrestry scheme area europhilla, Pinus merkusii and	eas Technical ef of National - Indonesian to achive		for the Project to April 10,	Mr. Tadao OfMRA (Acting Team Leader and Silviculture) was dispatched for the Pro ject to July , 1984	at the Agroforestry site.	nd in Jakarta on September to extend the Project	Evaluation Team	Yasushi NOMURA (Forestry Agency) Mimoru KUMAZAKI (Forestry and Forest Droducts Research Institute)	Tetsuro MATSUDO (Forestry Training Inscitute)	Tadayoshi KNWWO(Forestry Agency) Hokojiro kNNHHISA\Porestry Agency)
	at Jakarta, and review of last placed on the agenda.	inister of Forestry ation (Arboretum) in the agr a sp. <u>Bucalyptus europhilla</u>	The Secretary General of Ministry of Forestry sent a letter to Head of Overseas Technical Cooperation Bureau, Cabinet Secretariat of the Republic of Indonesia and Chief of National Planning and Development Agency, the Republic of Indonesia, proposing to the Indonesian Government request to the Japanese Government to extend the Project in order to achive the anticipated objectives.		(Forest Ecology) was dispatched for the Project to April	Ream Leader and Silviculture	Some kinds of sumple tools for fire fighting were prepared at the storehouse at the Agroforestry site. The Evaluation Team from Japan led by Mr. Y. NDATRA and the Indonesian Brainstion managed from the resonance of	the Project activities and held a Joint Evaluation Meeting in Jakarta on September Evaluation Team recommended to the respective government to extend the Project	The Evalua	Leader : Mr. Xasushi Adjusment : Mr. Mimoru ) Product	Forest Machinery : Mr. Tetsuro M Institute)	Afforestation : Mr. Tadayos) Coordination : Mr. Hokojir
	ng Group Meeting was held of and other matters were 1	The Directorate General of Forestry became the Minister of Forestry. Some kinds of trees were planted as sample plantation (Arboretum) in th such as Acacia Mangium, Albizia falcata, Carlandra sp. Eucalyptus euro Swietenia macrophylla etc.	of Ministry of Forestry service Service Secretariat of the Republic of the Japanese Government to uves.	system was established, s dry season the system active part in fire	Mr. Motohiro ARIHARA (For 1986	Mr. Tadao OFMRA (Acting Te ject to July , 1984	ols for fire fighting were a Japan led by Mr. Y. NY4	Project activities and he luation feam reconnended t		Lead Adjy	For	Affo
	The Sixth Joint Steering meeting, progress report	The Directorate General of Fores Some kinds of trees were planted such as Acacia Mangium, Albizia Swietenia macrophylla etc.	The Secretary General of Mi Cooperation Eureau, Cabinet Planning and Development Ag Government request to the J the anticipated objectives,	Fire fighting system was establis and during this dry season the sy had played an active part in fire fighting.			Some Kinds of Simple to The Evaluation Team fro	M. Sinaga evaluated the 13, 1983. The Joint Eval activity			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
2	1983 . War 14	* Mar 17 Mar 27	Jun 13	Aug	Mar	đ	Aug 30	- Sep 14				• •

Чеаг	Date	Meeting/ Event	Expert Counterpart. Mission/ Guest
	7	3	9
	Sep 14		The Field Manager Ves changed from Mr. Zulkifii Mulsani to Mr. Triyogo Soelanto, former forest protection
ស័ស័ រ រ	Sep 16 Sep 30		Mr. T. WATANABE, Audio Visual Teporter, visited Indonesia in order to make audio Visual. Scenario concerning afforestation activity in alang-alang
ð	oct St		grassiand. ANZAP (Asean New Zealand Afforestation Project) Work Shop Team visited the Pro
ð	0 <del>ct</del> 12	Mr. K. KATOH, Expert Tea	Expert Team Leader, left for Japan, for his assignment had finished.
ŏž ι	Oct 31 Nov 2		JICA would be expert team led by Mr. K. KATSURAI visited the Project to observe the afforestation cooperation Project.
ăЪ I	Dec 15 Jan 18	The audio visual Filming film for afforestation a	Team was dispatched to Indo trivities in alang-alang gra Mr. Tetsuya WATANABE (Aud Mr. Kuniyasu SACARA (
u.			WH ALLWINGE FULLENT ( CITTO )
1984 Ja	Jan 28		Ir. Victor M. Sinaga was succeeded by Ir. Saptana PH. as Project Manager.
μŢ	Jan 30		Mr. S. SUGINOTO, Chief Advisor for the Project, left for Japan for his assignment had finished.
Feb	4 4		Mr. T. IKTDA, Team Leader and expert for forest protection arrived in Indonesia.
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Mis		t to	ଷ ଅନ୍	meet	ដ ស្ត	r Mr. the lesia					in a pr			
		rosi	05 2 9 0 8	W the last meetin report. technical	The Japanese Picject Consultation	leam led by Mr. R. KATO , ex Chief Advisor for the Project was dispatch ed to Indonesia to make consultation concerning the extended two wasts	ň		•					
		Adv	or to	eport eport	he Ja	dvisc dvisc ncer								
		Chief	was done in order to create good condition the Project activity for two mure years was DGRLR. and Mr. Birtshi ynwmmn Tron 5	eview SSE r Tenda	E4 8	H 4 C 0	· · · · · · · · · · · · · · · · · · ·					, 	ίτ. 	
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Counterpart	S	mesi	and i sect	akart on t				•						in la
Coun		.Inde	s dor Proj RIR	in J Laced										· · · · ·
	- 	-is-	L L M	rtie bod										н 1944 1944
		, arrived in Indonesia as Chief Advisor for the Project.	stry road drainage was done in order to create good condition liny season. the extension of the Project activity for two akre years was Director General DGRR and Mr. Bittech transment.	a Office. 1 Group Meeting was held in Jakarta. Review - Japan Joint Evaluation Team's progress re the annual plan were placed on the adenda					· · · ·					
Expert	5	BR.	ad di ason tensi or Ge	etinc oint al pl										
Â		SIGES .	ry rc ny se he ex irect	fice. up Meet pan Joi					•			-		
		Mr. H.	nurse he rai for t lri, D	a Off Grou - Jar					• •					
		~	Construction work of the nursery road dr of the nursery road in the rainy season. The record of discussion for the extensi signed by Mr. Wartono Kahri, Director Ge	oent kepresentative Jakarta Office. The Seventh Joint Steering Group Meeting was held in Jakarta. Review the last meeting, reconnendation, Indonesia - Japan Joint Evaluation Team's progress report. technical report, two years plan and the annual plan were placed on the agenda								- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
Event			k of oad <del>1</del> scuss rtono	t Ste Trdon s pla			de de 1997 - Se 1997 - Servi			e den entre El sec	· · ·			: . ·
	e		n wor ery-r of di r. Wa	Foin Join Year					1					*
Meeting,			by M	Pres renth two two										
ž	• . -		Construction work of the of the nursery-road in t The record of discussion signed by Mr. Wartono Ra	dent kepresentative Jaka The Seventh Joint Steeri recommendation, Indonesi report, two years plin a	· .				<b>*</b>	. ·	•		1 14	
			<u>ប្រ ដ្ឋ</u>	repo repo repo				•	·		· · · · · · · · · · · · · · · · · · ·		<u>.</u>	
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Year	~	1984				· · ·	•		<i>.</i>					5

Year Date	Meeting/ Event Repert Counterpart Mission/ Guest
1	
1984	Technical Consultation Team Leader . Mr. Rvosuke KhTON (Forestry and Forest
I, a	RE
	Agroforestry : Dr. Selichi OHTA ( Corest and Forest
May 28	After discussion at the Joint Meeting at Jakatta. The Joint Steering Group and the Japanese Project
Jul 17	Consultation leam agreed on the "MUNULES OF UNDERSTANDING". New Plantation site design was started by meashring the area
Aud 7	The fire Protection Model Infrastructure design was started by measuring the field
Aug 29	Mr. H. YAWAMRA, Resident Representative, JICA Jakarta Office, Inspected the Project. On September
- Sep ]	1st he paid a courtesy dall on the secretary of the Governor of South Sumatera Province, asking for good cooperation with the Project.
Sep 21	The proposal of fire control Infrastructure Facilities for the Project was sent from the Ministry of Forestry, to Resident Representative JICA Jakarta Office.
σ t č	
	Division Private Forest Department, For
	restry Agency, visited Indonesia to a standard fractioner the Pro-
:	Ject and confer with Indonesian Authorit
	cal cooperation.
to	Not verbal for the Fire Control Infrastructure Facilities was exchneged by both Governments. In this connection, the amount of the funds allocated by JICA was 26.832.000 Yen.

st.					ork shop	am led by nided in t	y technica FTA)	ICA)		rt team le ation, Mr. er, Sakaer	an Som-Ng 1.Station 1 ject for th a among the
Mission/ Guest	Ŷ				Construction Work of the Concrete Floor for the Work Shop was done in order to keep clean work and to make a car wash area.	The Technical Guidance Team led by Dr. M. MATSUI inspected and onided in the	field. They suggested many technical points. Dr. Mitsuma MaISUI (JFTA)	LINNA (FORESUL stitute) ASHI (JICA)	seting,	Mr. U. ANDO,Japanese expert team leader for the Sakaerat Field Station, Mr. Pai sal Kewapirat Field Manager, Sakaerat	Field Station, and Mr. Aran Som-Ngai, Plantation, Sakaerat Field Station From Thailand, visited the Project for the Technical Exchange Program among the JICA Project Conversion
sty.		si) art he	ct, and	Jakarta Jetet Poolet	der to ke	chnical G SUT inspe	They sugging the transmission of transmission of the transmission of transmission of the transmission of trans	Hisaharu HAYASHI Hisaharu HAYASHI	The Eighth Joint Steering Group Meeting was held in Jakarta. Review of the last meeting, progress report placed on the agenda.	ANDO, Jape e Sakaerai wapirat F	Field Station, a Plantation, Saka Thailand, visite Technical Exchan JICA Project (o
		Reboisa reater p itef of t	he Porje	ghed in Arsyad uki Suto lemented	ne in or	The Te M. MAT	and the second		iew of t	Mr. U. for the sal Ker	Field : Planta Thaila Techni JICA P
rpart.	5	The reforestation Technology development Center (Balai Teknologi Reboisasi) has been established at Benakat, and the Project has taken the greater part of activities of the center.Ir. Kardi Sabaruddin was appinted Chief of the Center-	DGRUR, made inspection on the Porject, and	THe contract of the model infrastructure for fire control was signed in Jakarta between Mr. H. YAMAMURA, Resident Representative of JICA and Mr. Arsyad Letet Director of CV. Waringin and between Mr, H. YAMAMURA and Mr. Basuki Sutopo Director, CV. Hidup Sejahtera. And the construction had been implemented.	ob was do		Leader :	Coordination :	ưta. Rev		
Counterpart		(Balai T t has tak n was app	e inspect	re contrc s of JICA MWRA and tion had	Work Shc		Leader	Coordir	3 in Jaka		
		it Centor le Projec labaruddi	RLR, mad	e for fir sentativi , H. YAM construc	for the				was held		
Expert	4	svelopmen ., and th . Kardi S	heral, DG	structur ant Repre stween Mr And the	ste Floor				) Meeting Igenda.		
		nology de t Benakat enter.Ir	sctor Ger vice.	lel infre A, Reside in and be jahtera.	le Concre area.			· · · · · · · · · · · · · · · · · · ·	ing Group Meet on the agenda		
Event		ion Techr lished at of the o	dri, Dire nical adı	ict of the model infr . H. YAMAMURA, Reside of CV. Waringin and be CV. Hidup Sejahtera.	ork of tl car wash				nt Steeri t placed		
Meeting/ I	e	sforestat æn estab jvities.	Ir. Wartono Kadri, Director General gave some technical advice.	THe contract of the mode between Mr. H. YAMAMURA, Director of CV. Waringin Director, CV. Hidup Seja	Construction Work of the Cor and to make a car wash area.				The Eighth Joint Steeri progress report placed		
		The reformed to the	Ir. Wa gave s	THe contr between M Director Director,	Constr and tc				The Ei progre	· · · · · · · · · · · · · · · · · · ·	
Date	3	oct 20	25 27	2.5		୰ୠ	·		61	Ъ 29	
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Meeting/ Event Exper 3 A First fire fighting exercise was imple First fire fighting exercise was imple of the The annual consultation meeting on Tec was held at SERAB, and follow up of th water for the experiment and for drink Apperators and mechanics training was h to imporve their techniques.
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Year	Date	Meeting/ Event Mission/ Great
	7	3
1985	SC CC SC SC	Joint Evaluation Team held a Joint Meeting in Jakarta. After the Meeting the Team decided to recommend to their respective governments that the follow-up the Project was necessary. The review report of the Team was presented.
· · ·	Dec 18	The second fire fighting exercise was implemented in the field, using all kinds of equipment , with many visitors.
986	Mar 11 Mar 18 Apr 2	Messrs. T. IKEDA,O. TANDO, Kardi Sabaruddin and Sutomo visited the Reforesta tion Research and Training Project in Thailand for the Technical Exchange Program among JICA Project Cooperation. The record of Discussion on the Follow-up for the Trial Plantation project was signed by Wartono Kadri, Director General DGRLR, and Mr. Hideo ENDO, Resident Representative HTCA Takarta Office
	Apr 2	it aid fc as signed m Econom
	Apr 1 Apr 10	Mr. Sato SHIRMIANA (Silviculture) was dispatched for the Project. Five Japanese Experts left for Japan.
	Apr 11	The extended two years based on Record of Discussion signed on March 24, 1984 is expired
·.	. ·	

Mission/Guest				Guidance Team Mr. Takashi Fujimura (JOFICA) Dr. Kazuto ARIMITSU(Forest) and Forest Products Research Institute)		Mission for Grant Aid Mr. Yoshitaro WrieNabE (JICA)		Prospective JICA Expert (Course director: Mr.Seibei HATTORI) 1. Mr. Makato OHISIBO	뙭풥풥뭑	* * *
Denterpart		Mr. Kohji OKABE(Chief Advisor) was extended from 12 April to 30 April)	Mr. Yasuyuki SUZUKI (New Chief Ad- visor) anrived April 14,1986 to April 13,1988)		Meeting at Jakarta		Mr. Kyoji FASHIMOTO was extended from June 1986 to 31 March 1987 as expert for Agroforestry			
Meeting/Bvent					The Ninth Joint Steering Group Meeting					
Year Date	2	1986 Apr 12	Apr: 14.	Apr 17- Apr 22	Apr 29	- (1)	۲. 29	7ul 6 - 12		

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Year	Date	Meeting/Event	Expert of	Counterpart	Mission/Guest
1	5	<b>R</b>		<b>S</b>	9
1986	Jul 8 Sep 9			c/p training in Japan 1. Lr. Soedaryanto at Kan	ining in Japan Soedaryanto at Kanto Tree Breeding Institute
•	Jul 15 - 18	The Ninth Annual Consultation Meeting on Technical Cooperation between Japan and RI at BAPPENAS, Jakarta	feeting on Technical M at BAPPENAS, Jakarta		
÷.,	Jul 24	Ikatan Alumni JICA Indonesia a	at Hotel President Jakarta		
•	Aug 18 - Nov 27			Forestry Training in Japan (Group Tra 2. Ir. Eko Bambang Sutedjo 3. Ir. Sofan Bustami	n (Group Training) o
•	Aug 26 -29		Study Tour to Ujung Pandang (Mr. SUZUKI, Mr. HASHINOTO	. South Sulawesi and Mr. SHIRAHAMA)	
. •	Sep 11 - Dec 15			Training in Japan (Forest 4. Mr. Setyo Purnamo at R	Soil) Nukru University
. •	- Sep 29		Study Tour to Kalimantan 1. Mechanized NUrsery and P at Banjaumasin 2. PUSREAUT Project (JTA 9( Mr. Kyoji HASHIMOTO Mr. Masato SHIRAFAMA	dy Tour to Kalimentan Mechanized NUrsery and Plantation Project (ATA-267) at Banjaumesin PUSREHUT Project (JTA 9 (A)-137) at Samarinda Mr. Kyoji HASHIMOTO Mr. Masato SHIRAFAMA	
			Ir. Yadi Hari Ir. Bustami	vanto	
	Oct 7	Explanation meeting for Grant A	Aid at Dephut, Jakarta		
	- Nov 27		Mr. Kinihiko HAVASHI (Agroforestry)	estry) as Short Term Expe	
	Oct 27 Nov 4	Bidding for Grant Aid (Imapung) Bidding Committe	North Sumatera) at Dephut.		
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Mission/ C	9	hufte zy)hif at at	Agrofo MORI MUGOE N I in Be	xchang ANDA (T Nilippi echonc		Agric ation GIVA(I HINUZU > OHRAW ZUKI	(8) IIBA (Ch JINNIA + JINNIA + JINNIA + JINNIA ATOH (
vis:		(Silviculture) hifted orest Machinery) hifte try) to Benakat r (Forest Machinery)	Team for Agro Tokunori MORI Yoichi TORIGO Akira SATO A - Jan 31 in 1	m Technical Exchange between Indon Philippines Mr. Tsutomu HANDA (Team Leader JICA Project in Philippines) Mr. Jose L. Lechoncito (Chief of Re forestation Division BPD-RP)	awes i	<pre>&gt;&gt; Team of Agriculture a al Cooperation Project. Eiji YAWAGIWA (reader) Takashi SHDUZU Takashi SHDUZU Yoshikiyo OHKAWA Akira SUZUKI</pre>	am Leader (8) Yasuto CHIBA (Chine) Dr. Iwao JINNAI (1 Akira YANAGUCHI (Ma Hitoshi KATOH (Phil
		Tata Wiharta BS¢ F (Silviculture) hifted to BTP Bog Rismulyadi BS¢ F (Forest Machinery) hifted To Dit. Reboisasi Ir. Heru (Agroforestry) to Benakat Ir. Engkos Küsnandar (Forest Machinery) to Benakat	Survey Team for Agroforestry 1. Dr. Tokunori MORI 2. Dr. Yoichi TORIGOE 3. Mr. Akira SATO (Jan 17 - Jan 31 in Benakat)	Team Technical Exchange between Indonesia and Philippines 1. Mr. Tsutomu HANDA (Team Leader JTCA Project in Philippines) 2. Mr. Jose L. Lechoncitó(Chief of Re forestation Division BrD-RP)	in South Sulawesi.	Guidance Team of Agriculture Technical Cooperation Project 1. Mr. Eiji YAWAGIWA (reader) 2. Mr. Takashi SHDUZU 3. Mr. Yoshikiyo OHKAWA 4. Mr. Akira SUZUKI	JTCA Team Leader (8) 1. Dr. Yasuto CHIBA(China) 2. Prof.Dr. Iwao JINNAI (Indonesia) 3. Dr. Akira YAWGUCHI (Malaysia) 4. Mr. Hitoshi KATOH (Philippines)
		ESC F C F (F Cofores Isnanda		N Lang		0 H H V W 4 100	DH204
art		Tata Wiharta BS¢ F Rismulyadi BS¢ F (F Reboisasi Ir. Heru (Agrofores Ir. Engkos Kúsnendz			Wanagement Project ct in Jakarta.		
Counterpart	Ъ́С,	Tata Wiha Rismulyad Reboisasi Ir. Heru Ir. Engko			agement Pr ir Jakarta		
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• • •					nd Watershed Mar (ASEAN) Project		
Û,	4				and Wat (ASE2)		
- 10 					in Benakat and der of JICA (A		
Meeting/ Event					Meeting for F/S HTT in E Meeting for TEAM Leader		
seting,	m				ror ror for		
٤ 					Meeting		
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Date	5	Jan	Jan Feb 8 1	Jan 20 - Jan 25	Fred 1 Fred 1 Fred 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	тер 2 тер 2
Хеаг	ert	1987		59		<b>,</b>	•

Mission/ Great		Mr. Ryosuke KATOH (Thailand) Mr. Makato OHTSUBO (Thailand) Mr. Kozo KOSUGI (Brumei) Mr. Yasuyuki SUZUKI (Indonesia)	Guidance Team (5) 1. Mr. Eiji YAMASIWA (JICA) 2. Mr. Susumu SUZUKI (JICA) 3. Mr. Takashi SHIMIZU (MOAF) 4. Mr. Yoshikiyo OHKAWA (JICA) 5. Mr. Akira SUZUKI (JICA)		med as short term expert.		Pre-Project Study Team on Treatment of Logged-over Forests sponsored by ITTO 1. Prof. Dr. Taisichino SATO 2. Mr. Motohiro ARTHARA		Survey Team at Watershed Management Project in South Sulawesi observed on Benakat Project (Jun21-Jul 11)	<u>v</u>	Mr. Osamu FDAZAWA
courterpart.	2	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5 + 5	TASHIRO (Forest Machinery) dispatched as m_Expert.	WBUCHI (Forest Entomology) dispatched as short term expert,	Kyoji HASHIMOIG left for Japan		i SUZUKI (Chief Advisor)	E O C		
Meeting/ Event	<b>4</b>			Mr. Koji TASHIRO ( Shọrt Tenm Expert.	Dr. Akira NOBUCHT	Mr. Kyoji I	Meeting on ITTO Project	Mr. Yasuyuki Suzuku home leave			
Year Date Me	1	1987		Feb 23 - May 15	Mar 2-28	Mar 30	May 14-21 Meetin	May 16 - Jun 15	Jul 6-8	Jul 12-18	

2. Mr. Manabu AIBA (JICA Jakarta Office) Bambang Sceheryanto (KPH: Malang) Observation Team from Project Kali Kon 1. Mr. Atsushi IOKI (1st Secretary of Project Finding Mission sponsored by c/p training in Japan Ir. Haryono (Forest Protection) W.J. Van Oostveen (Proyek) (ATA206) and Perum Perhutani Supeno ( KPH Pasuman) at Forest and Forest Products Research Institute. Edi Rismono (Proyek) Takachika YAMASHITA Rusmanhadi (Provek) · · · Mission/ Guest Satoshi KUISUZAWA the Emabssy of Japan) ÷, Hiroyuki HATORI Toshiro HARADA 1. Dr. Mitsuma Matsui 2. Mr. Seibei HATTORI ŵ Mr. Masato' SHIRAHARA, extended as expert of JICA (Silviculture) Evaluation Team The 11th Annual Consultation Meeting on Technical Cooperation between Japan and RI Forestry Agency Fire Fighting : . 5. Mr. 6. Mr. 노 н 놳 H អំដ H . • • • • • Tenth Joint Steering Group Meeting at KNWIL Kehutanan, Pelehbang. 8 4 2 'n 4 ິທີ 4 Cooperation Project by Eduasy of Japan. ġ, Counterpart. Ś Meeting about new project with Pro-Ei Mission 4 Expert 4 Forest fire fighting Training Evaluation on Technical at BAPPENAS Jakarta. Meeting/ Event m The Sep 24-26 Jul 13-16 Sep 16-19 Sep 24-26 Date Aug 30 - Sep 9 Aug 17 Nov 20 Oct 1 Mar 31 2 ø g ł ī Year 1988 1987 6 ..... . .

Ir. Manan Síregar (New Director of Re forestation) Taro NACATO (Forestry Machinery) dispatched as short term expert. · : · Mission/ Guest Mr. Kyoji HASHIMOTO (Agroforestry) dispatched as short term expert. Guidance Evaluation Team Ó. T. HPMAZAKU Y. TORIGOR 1. Mr. ISUTSUNG 2. Mr. MCTOYANA 3. Mr. SERIZANA N. TANAKA Team Short term expert will be dispatched (Tehding tree) c/p training in Japan 1. Ir. Bustami (Sifiviculture) 1. Dr. 2. Dr. 3. Dr. Survey c/p training in Japan'. .1. Ir. Edi Iswahydi . Mr. Masato SHIPARRAN home leave to Japan -Counterpart. <u>5</u> Ikatan Alumni JICA Indorjesia at Hotel President Jakarta Mr. Seishi MIUMA Expert 4 Guidance Evaluation Team from Japan ਸ ਸ Survey Team for Agroforestry Meeting/ Event m Dec. 22 -Feb.27,1988 Nov 8-16 Date - Óct 12 - Nov 11 1 Nov 10 Feb 2 - Mar 31 Jan 25 - Mar 16 Set 30 Jan 8 - Mar 31 (March)  $\sim$ 4 Jan Year 1988 1987 62

3 A A S. S. S. C. Closing Ceremony at Benakat ( Mess BIR) F Closing Ceremony at Benakat ( Hotel Swarna Dwipa) 1 T Closing Ceremony at Jakarta (Hotel Sari Pacific) Be Mr. Masato SHIRNAWA left for Japan. Be Mr. Kyoji HASHIMOTO left for Japan. L Mr. Kyoji HASHIMOTO left for Japan. The Trial Plantation Project is ended. Mr. Yasuyukf SUZUKI left for Japan ( Chief Advisor for AIA-186 Project)
2 Mar 18 . 22 . 25 . 30 . 30 . 31 . 7

NAME NEW Control of the second s	SPECIALITY	PERIOD FROM		PRESENT PLACE OF WORK
1 Mr. Ryosuke KartoH	Chief Advisor	Dec 17,1979	Feb 16,1982	Chief Advisor for .ITCA protect in mhasiand
Mr. Sadao SUGIMOTO	đitto	Feb 1 ,1982	Jan 31,1984	Division Chief, TOHHOKU National Forestry Institute
Mr. Hiroji OKABE	ditto	Feb 27,1984	Apr 30,1986	Senior Officer, Forestry Agency
Mr. Yasuyuki SUZUKI	đitto	Apr 14,1986	Apr 13,1988	Chief Advisor for JICA Project in Indonesia (Forestry Agency)
5. Mr. Katsuyuki OHMI	Team Leader	Nov 16,1979	Nov 15,1981	Director JICA in TOKYO
Mr. Kuniaki KaroH	ditto	Oct 14,1981	Oct 14,1983	Division Chief, MAERASHI Regional Forestry Office
Mr. Tsuyoshi IKEDA	ditto	Feb 4,1984	Apr10,1986	Division Chief, TOKNO Regional Forestry Office
Mr. Tadao OHARA	Silviculture	Jul 15,1983	Jul 14,1984	Division Chief, Japan Forest Technical Association (JFTA)
9. Mr. Minoru ARAI	đitto	Apr 12,1984	Apr 10,1986	Expert for JICA Project in Kenva
10. Mr. Masato SHIRAHAMA	ditto	Apr 1 ,1986	Mar 31,1988	Forestry Agency
Mr. Hirota YAMATE	Nursery	Sep 22,1980	Apr 11,1984	Division Chief, Krushuu Tree Breeding Institute
Mr. Osamu TANDOH	đitto	Mar 26,1984	Apr 10, 1986	Senior Research, KANTOH Tree Breeding Institute

FROM     TO       Forest Protection     Mar 12,1980     Mar 11, 1982       ditto     Apr 1, 1982     Mar 31, 1984       Forest Engineering Jul 30,1980     Apr 11, 1984       forest Engineering Jul 30,1984     Apr 10, 1986       ditto     Mar 26,1984     Apr 10, 1986       forest Ecology     Mar 31,1981     Mar 30, 1983       forest Ecology     Mar 31,1981     Mar 30, 1983       forest Ecology     Mar 15,1983     Apr 10, 1986       fortuo     Mar 15,1983     Apr 10,1986       for Liaison Officer     Dec 17,1974     Des 16, 1981       ditto     Jun 15,1984     Jun 28, 1986       ditto     Jun 15,1984     Jun 28, 1986	2	NAME	SPECIALITY	PERIOD.		PRESENT PLACE OF WORK
Mr. Seishi MIURAForest ProtectionMar 12,1980Mar 11, 1982Mr. Masaharu TREATAdittoApr 1, 1982Mar 31, 1984Mr. Nasaharu TREATAforest Engineering Jul 30,1980Apr 11, 1984Mr. Kohji TASHIROForest Engineering Jul 30,1980Apr 11, 1984Mr. Hirosato TAGUCHIdittoMar 26,1984Apr 10, 1986Mr. Hirosato TAGUCHIdittoMar 31,1981Mar 30, 1983Mr. Hirosato TAGUCHIdittoMar 31,1981Mar 30, 1986Mr. Hirosato TAGUCHIRotest EcologyMar 31,1981Mar 30, 1983Mr. Hideki HRIHARAdittoMar 15,1983Apr 10,1986Mr. Voshiichi SARAMOTOLiaison OfficerDec 17,1974Des 16, 1981Mr. Koshiichi SARAMOTOdittoMar 15,1983Apr 10,1986Mr. Koshiichi SARAMOTOdittoMar 15,1983Apr 10,1986Mr. Koshiichi SARAMOTOdittoMar 31,1974Des 16, 1981Mr. Koshiichi SARAMOTOdittoJun 15,1984Jun 28, 1986Mr. Kyohji HASHIMOTOAgroforestryJun 29,1986Mar 31,1987				FROM	22	
Mr. Nasaharu TRBATA ditto Apr 1, 1932 Mar 31, 1984 Mr. Kohji TASHIRO Forest Engineering Jul 30,1980 Apr 11, 1984 Mr. Hirosato TAGUCHI ditto Mar 26,1984 Apr 10, 1986 Dr. Seiichi OFTA Forest Ecology Mar 31,1981 Mar 30, 1993 Mr. Motohiri ARHARA ditto Mar 15,1983 Apr 10,1986 Mr. Yoshiichi SARAMOTO Liaison Officer Dec 17,1974 Des 16, 1981 Mr. Hideki HACHINOHE ditto Nov 18, 1981 Apr 11, 1984 Mr. Kyohji HASHIMOTO ditto Jun 15,1984 Jun 28, 1986 Mr. Kyohji HASHIMOTO Agroforestry Jun 29,1986 Mar 31,1987	່ ຕີ	Mr. Seishi MIURA	Forest Protection	Mar 12,1980	Mar 11, 1982	ACWORI Forestry Association
Wr. Kohji TASHUROForest Engineering Jul 30,1980Apr 11, 1984Mr. Hirosato TAGUCHIdittoMar 26,1984Apr 10, 1986Dr. Seiichi OHTAForest EcologyMar 31,1981Mar 30, 1983Dr. Seiichi OHTAForest EcologyMar 31,1981Mar 30, 1983Mr. Motohiri ARHARAdittoMar 15,1983Apr 10,1986Mr. Voshiichi SARAMOTOLiaison OfficerDec 17,1974Des 16, 1981Mr. Koshiichi SARAMOTOLiaison OfficerDec 17,1974Des 16, 1981Mr. Kychiji HASHIMOTOdittoNov 18, 1984Jun 28, 1986Mr. Kyoji HASHIMOTOdittoJun 15,1984Jun 28, 1987	4	Mr. Masaharu TABATA	ដូ	Apr 1, 1982	Mar 31, 1984	Deputy Chief of Division TOXYO Regional Forestry Office
Mr. Hirosato TAGUCHIdittoMar 26,1984Apr 10, 1986Dr. Seiichi OfTAForest EcologyMar 31,1981Mar 30, 1983Dr. Seiichi OfTAForest EcologyMar 15,1983Apr 10,1986Mr. Motohiri ARHARAdittoMar 15,1983Apr 10,1986Mr. Yoshiichi SARAMOTOLiaison OfficerDec 17,1974Des 16, 1981Mr. Hideki HACHINOHEdittoNov 18, 1981Apr 11, 1984Mr. Kyohji HASHIMOTOdittoJun 15,1984Jun 28, 1986Mr. Kyoji HASHIMOTOAprofestextryJun 29,1986Mar 31,1987	15.	Mr. Kohji Tashiro	Forest Engineerin	g Jul 30,1980	Apr 11, 1984	Senior Expert, NUMATA National Forest Machinery Development Center
Dr. Seiichi OfficForest EcologyMar 31,1981Mar 30, 1983Mr. Motchiri ARIHARAdittoMar 15,1983Apr 10,1986Mr. Yoshiichi SARAWOTOLiaison OfficerDec 17,1974Des 16, 1981Mr. Hideki HACHINOHEdittoNov 18, 1981Apr 11, 1984Mr. Kychji HASHIMOTOdittoJun 15,1986Jun 28, 1986Mr. Kyoji HASHIMOTOAgroforestryJun 29,1986Mar 31,1987		Mr. Hirosato TAGUCHI	ditto	Mar 26,1984	Apr 10, 1986	Deputy Chief, AISUIA Wood Warketing Office
Mr. Motohiri ARHARA ditto Mar 15,1983 Apr 10,1986 Mr. Yoshiichi SAKAMOTO Liaison Officer Dec 17,1974 Des 16, 1981 Mr. Hideki HACHINOHE ditto Nov 18, 1981 Apr 11, 1984 Mr. Kychiji HASHIMOTO ditto Jun 15,1984 Jun 28, 1986 Mr. Kyoji HASHIMOTO Agroforestry Jun 29,1986 Mar 31,1987	17.	Dr. Seiichi Ofta	Forest Ecology	Mar 31,1981	Mar 30, 1983	Expert for JICA Project at Samarinda in Indonesia (PUSREHUT)
Mr. Yoshiichi SaKaMOTO Liaison Officer Dec 17,1974 Des 16, 1981 Mr. Hideki HaCHINOHE ditto Nov 18, 1981 Apr 11, 1984 Mr. Kyohji HaSHIMOTO ditto Jun 15,1984 Jun 28, 1986 Mr. Kyoji HaSHIMOTO Agroforestry Jun 29,1986 Mar 31,1987	00 (cf	Mr. Motohiri Arihara	artto	Mar 15,1983	Apr 10,1986	Senior Research, Japan Overseas Forestry Consultant Association (JOFCA)
Mr. Hideki HACHINOHE ditto Nov 18, 1981 Apr 11, 1984 Mr. Kyohji HASHIMOTO ditto Jun 15,1984 Jun 28, 1986 Mr. Kyoji HASHIMOTO Agroferestry Jun 29,1986 Mar 31,1987	19.	Mr. Yoshiichi SAKAMOTO	Liaison Officer		Des 16, 1981	Auditor WAEBASHI Regional Forestry Office
Mr. Kyohji HASHIMOTO ditto Jun 15,1984 Jun 28, 1986 Mr. Kyoji HASHIMOTO Agroforestry Jun 29,1986 Mar 31,1987	50.	Mr. Hideki HACHINOHE	ditto	Nov 18, 1981	Apr 11, 1984	Expert for JICA Project at Samarinda in Indonesia (PUSREHUT)
Mr. Kyoji HASHIMOTO Agroforestry Jun 29,1986 Mar 31,1987	21.	Mr. Kyohji HASHIMOTO	ditto	Jun 15,1984	Jun 28, 1986	Staff JICA in TOKYO
	22.	Mr. Kyoji HASHIMOTO	Agroforestry	Jun 29,1986	Mar 31,1987	

PRESENT PLACE OF WORK	Forest Civil Engineering Consultants Foundation	Japan Overseas Forestry Consultant Associa tion (JOFCA)	Biwa Sprinkler Co, Ltd	Forest Engineering Co. Ltd	Division Chief, HOKGAIDO Forest Civil Engineering Consultants Foundation	(HOKGAIDO National Agricultural Institute)	Director, Forest and Forest Products Research Institute	Division Chief Forestry and Forest Products Research Institute	IWARUII Industry Co, Ltd	ditto	Director, TOHHOKU National Forestry Research Institute	HOKKAIDO Forest Civil Engineering Consultants Foundation	ditto.	
8	Jun 15, 1980	May 29, 1989	Nov 9,1980	ditto	Dec 13,1981	Nov 12,1981	ditto	Mar 22,1981	Dec 12,1981	ditto	Dec 18, 1981	Oct 10,1982	Jan 20, 1983	
PERIOD	Mar 19,1980	Mar 31,1980	Oct 20,1980	ditto	oct 14,1981	Oct 14,1981	ditto	Mar 2, 1981	Nov 19,1981	ditto	ditto	Mar 8, 1982	Nov 22,1982	
SPECIALITY	Model Infra	Nursery	Forest Mechni- zation	ditto	<b>Filot Infra</b>	Agro-Economy	Socio-econimy	Soil Analysis	Forest Machinery	ditto	Tree Pathology	Pilot Infra	ditto	
NAME	1. Mr. Kiyohiko YEMEZEKI	Mr. Masaji KAWASAKI	Mr. Haruo HASEGAWA	Mr. Tedao YOKOKOHJI	Mr. Takahiko TAKAHASHI	Dr. Yooichi IZUMIYAMA	Dr. Minoru KUMAZAKI	Dr. Isao HOTTA	Mr. Yukio AOKI	Mr. Yoshihiro YACHIUNE	Dr. Yoshiyuki JIMKO	Mr. Katsumi MITANI	Mr. Tekahiko Takahashi	
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aruyos) aruyos) izo IW izo IW dashi akashi akashi tsuya Kuniya Kuniya Kuniya Kuniya Kazush fomino (atsuh	14. Dr. Haruyoshi SAHO Tree Pathology Jan 25,1983 Mar 30,1983 Director, Forestry and Forest Products Re search Institute 15. Mr. Hiroshi Marin Mitha Forest Entomology ditto ditto Senior Researcher, Forestry nad Forest 16. Mr. Eizo IMAXA Forest Machinery Feb 18,1983 Apr 16,1983 Apr 16,1983 Apr 16,1983 Office	<ol> <li>Mr. Tadashi NEKATA Forest Machinery Apr 8,1983 May 7, 1983 (Nishi Kanto Komatsu Hambai Co. 1td)</li> <li>Dr. Takashi KATOH Agroforestry Aug 8, 1983 Sep 4, 1983 Division Chief, Forestry and Forest Products Research Institute</li> <li>Mr. Kunihiro KAMIJO Survey ditto ditto ditto ditto Chief, SAKATA District Forestry Office</li> <li>Mr. Tetsuya WATEANBE Audio Visual Sep 16,1983 Sep 30,1983 Visual Information Service Co. 1td</li> </ol>	14,1983 Nov 2, 1983 itto ditto 15, 1983 Jan.18.1984 1 tto ditto ditto ditto b.1,1984 Mar.12, 1984	Tadao DHARA Silviculture Oct.26,1984 Dec.25,1984 JFTA Katsuhiko KOBAYASHI Forest Civil ENgheering Nov.19,1984 Apr. 11,1984 Sukeharu ISURU Socio-Fronomy Nov 28 1984 Dec 10,1000 Division Cline V
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30. Mr.Kiyoshi FUJI Fire Protection	n Nov.26,1984	10 00- 25 100/	
Mr.Kiyoshi FUJI Fire		14	
	_	<b>6</b> 1	
31. Mr. Masahiro TAJIMA Nursery	Sep.18,1985	Nov.2 ,1985	Kanto Tree Breeding Institute
32. Mr.Katsuyasu YAMGUCHI Silviculture	0ct.1.1985	Nov.29,1985	
33. Dr.Takashi KATOH Agroforestry	Nov.15,1985	D&c.14,1985	Division Chief, Forestry and Forest
			Products Reseach Institute
34. Mr.Kohji TASHIRO Forest Machinery	y Nov.28,1985	Dec.29,1985	Senior Expert, NUMATA National
			Forest Machinery D velopment Center
35. Mr. Kimihiko HAYASHI Agroforestry	0ct.13,1986	Nov.28,1986	Senior Researcher, 18ARAGI Prowincial Forest Research Institute
36, Mr.Kohji TASHIRO Forest Machinery	y Feb.23,1987	May 15,1987	Senior Expert, NUMATA National
			Forest Machinery Development Lenter
37. Dr. Akira NOBUCHI Forest Entomology	gy  Mar.2,1987	Mar.28,1987	Division Chief, Forestry and
			Forest Products Research Institute
38. Mr. Seishi MIURA Silviculture	Dec.22,1987	Feb.27,1988	AOMORI Forestry Association
39. Mr. Kyoji HASHIMOTO Agroforestry.	Jan 8,1988	Mar.31,1988	Staff, JICA Tokyo
40. Mr.Taro NAGATO Forest Machinery	Feb.2,1988	Mar. 31,1988	Chain-saw Consultant

PRESENT WORK OF FLACE		Staff D.G. Reforestation and Land Rehabilitation	Division Chief, Directorate of Reforestation	Died on February 17,1980			Division Chief South Sumatera Regional Forestry Office	Section Chief, Directorate of Reforestation		Section Chief, Directorate of Rev forestation	Chief of BTR Sumatera Selatan	Section Chief, Directorate of Reforestation	Staff, Directorate Of reforestation	Staff, BTP BOGOR
	,1983	,1984	Mar 31 ,1988	0861,	1361.	,1983	0861,	1983	,1980	,1985	1,1988	1980	1983	,1983
OOINER	Sep	Jan	Mar 31	Feb 17	Mar 1	Jul	Àpr	Sep	Dec	Apr	Mar 31	Apr	Sep	Sep
	1381,	,1983	1984	,1979	,1980	,1979	,1979	,1980	,1980	,1983	,1985	,1979	,1980	,1980
FROM	Mar	Sep	Jan	Sep	Mar 1 ,1980	Sep	Apr 30,1979	Apr	ğ	ŝ	Apr	Sep	May	Sep
CATAGORY SPECIALITY	Project Manager	ditto	âitto	Project Co-Manager	âitto	Ass. Project Co Manager	Field Manager	âitto	ditto	ditto	ditto	Silviculture	ditto	ditto
	Ir. Soedjadi Hartono	Ir. Victor Mula Sinaga	Ir. Saptana PH.	Ir. Soeharto Soemarmo	Ir. Syahrir	Ir. Arip P.S. Sagala	Ir. Wazir. Nengkeman	Ir. Zulkifli Mulsani	Ir. Soeharyanto	Ir. Triyogo Soekanto	Ir. Kardi Sabaruddin	Ir. Zulkifli Mulsani	Ir. Anto Rimbawanto	Tata Wiharta BSc F
QN	rt.	2	r m	47	ŗ,	.9 69	7.	œ	5	- 0 -	31.	12.	13.	14.
						· · · · · · · · · · · · · · · · · · ·								

PRESENT WORK PLACE	Staff, BTR Sumatera Selatan	Bogor	Staff, BTR Sumatera Selatan ditto	ditto	nief, Directorate of Reforest	ilef, BTP Bogor		lief, Directorate of Reforest	Section Chief, BTP Bogor	BIR Suntera Selatan	Staff, Directorate of Reforestation			Staff, BTR Sunatera Selatan	Section Chief, Directorate of Reforest ation	Chief, Directorate of Reforest	
PRESEN	Staff, BT	Staff, BTP Bogor	Staff, BTR Su ditto	<b>G</b>	Section Chief, ation	Section Chief,		Section Chief, ation	Section C	Staff, BT	Staff, Di			Staff, BTT	Section Cr ation	Section Cr ation	
8	Mar 31,1986	Des ,1986	Mar 31,1988 Mar 31,1988	War 31,1988	Jan , 1983	Mar ,1983	Sep ,1982	Sep ,1983	Apr , 1985	Mar ,1988	Feb ,1987			Mar 31,1988	Mar , 1983	Sep , 1983	· · · · ·
CON DEFU	Sep ,1983	Apr , 1985	,1987 ,1987	,1987	Nov , 1979	Nov , 1981	Jan ,1982	Apr. ,1983	Sep ,1983	Apr ,1985	Sep ,1980	Apr , 1985	May ,1985	Feb ,1987	Oct ,1980	Apr , 1983	
CATAGORY SPECIALITY	Silviculture	ditto	dirto dirto	âitto	Nursery	ditto	Bs.h ditto	ditto	ditto	ditto	Forest Engineering	%β ditto	ditto	đi <del>t</del> to	Forest Protection	ditto	
New E	Ir. Sutomo		I.r. wuyanto Agus BSc F		. Ir. Hardjono Arisman	Ir. Ny. Retno Sekarsari	Adam Nur Yahya Futra	. Ir. Nyoman Yuliarsana	Ir. Ny. Retno Sekarsari	. Ir. Edi Iswahyudi	Rismulyadi BSC F	Adam Nur Yahya Putra bah ditto	28.J. Agus Marsudiono	. Ir. Engkos Kusnandar	. Ir. Nycman Yuliarsana	. Ir. Triyogo Soekanto	
Q	15.	16.	18.	19.	-20-	21.	22.	พี ₇₀	24.	25.	26.	27.	28	29.	30.	31.	

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NO	CATAGORY SPECIALITY	, FROM	PELIOD	8	PRESENT WORK PLACE
32.° Tata Wiharta BSc F	Forest Protection	St	, 1983	Apr ,1985	Staff, BrP Bogor
33. Ir. Hariyono	ditto	Jan ,	,1985	Mar 31,1988	Staff, BIR Sumatera Selatan
34. Ir. Heru	ditto	Feb	,1987	Apr ,1987	
35. Ir. Triyogo Soekanto	Forest Ecology	Nov , 1	1981	Mar ,1983	Section Chief, Directorate of Reforest ation
36. Ir. Ny. Retno Sekarsari	ditto	Apr , J	,1983	Sep ,1983	Section Chief, BTP Bogor
37. Adam Nur Yahya Putra	ditto	Sep , ]	, 1982	Apr , 1985	
38. Ir. Bustami	ditto	E. mp	1985	Nar 31,1588	Staff, BIR Sumatera Selatan
- 39. Ir. Munawawi	Agroforestry	Nov ,1	1981	Mar , 1982	Staff, South Sumatera Provincial Forest Office
40. Ir. Sumarto Bimo Sentoso	ditto	Nov, 1	1981	Mar ,1982	
41. Ir. Agung Suko Rahardjo	ditto	Jun, 1	1982	Sep, 1982	
42. Ir Yadi Hariyanto	ditto	Mar, 1	1982	Mar 31,1988	Staff, BIR Sumatera Selatan
43. Burhan Ismail BSc F	ditto	J.m.	1985	Mar 31,1988	
44. Ir. Heru	ditto	Apr, 1	1987	Mar, 31,1988	äitto

1979/80 Ir.		Post Sost	Course	Revarks
- XI	Ir. Apandi Mangunûjkoro	A-2,3 form of Colombo plains a	Colombo plan from the Indonesian side was "These was serve misunderstanding in Indone	ide was Tridonesian
	Ir. Soelarto	side. Their observation tour was cancel Soeharto's sudden death on February 17,	1ed partly 1980	lite to Mr
18,				
Sep 17-Oct 17 1980	lr. Wazık Nengkenan	Project Manager (Forest Chiel of Forest Utilization Division,	General Forestry in Japan	
		South Sumtera Regional Forestry Office)		
Oct 1- Dec 17 Ir. 1980	Zulkifli Mulsani	Field Manager (Present section Chief	Reforestation activi ties and Silviculture	•
		of Mechanized Rehabili tation, Directorate of	techniques	
an 17- Nac 17 Tr	Hardtono Arisman	Reforestation. c/n for Nurserv	Nurserv Achivities	
1980		(Present Section Chief of Seed Distribution, Directorate of Reforest ation.	and Techniques	
1981/82				
Nov 5	Rismulyadi BSCF	c/p for Forest Engineer- (Present Staff of Directo	General Silviculture and Forest engineering	
Agst 6- Nov 5 Tat 1981	rata Wiharta BSCF	ince of meroresculum, c/p for Silviculture (Present Staff of Seed	Reforestation activities and Silviculture techniques	sues
		Development Center (BTP), B o q o r		
Mar 24-Apr 4 Ir. 1982 Danc	Ir. Soedjadi Hartono Danoewinoto	Project Manager (Present Director of	Observation Tour on For activities in Japan	Forestry
		Recreation Forest and National Park)		

Year Term	Name	Post	Course	Remarks
Mar 25- Jun 24 1982	Ir. Nyoman Yuliarsana	c/p for Forest Protec tion (Present Section Chief of Forest Tendi	Forest Protection activities and techniques	Erom April, 1988 to scholarship at Tsukuba University
Mar 25- Jun 24 1982	Ir. Anto Rumbawanto	ng, Directorate of Re forestation c/p for Silviculture (Present Staff of Direc torate of Reforestation	Treebreeding activ ities and Techniques	
Sep 6-17 1981	Ir. Abdurahim Martawi djaya Ir. R. Soerjono	Director, Forest Product Research Institute Director, Forest Research		tress and
73	Ir. Harun Al Rasyid Ir. Syaifii Manan	Staff for Forest Research Institute Lecturer, Faculty of Forest ry, Bogor Agriculture		
1982/1983 Mov 4-17 1982	Ir. Victor Mula Sinaga	Director of South Sumate ra Provintial Forest Off ice(Project Manager, Dire ctor of Reforestation,	Observation Tour and General Forestry in Japan	7
Nov 4- Dec 15 1982	Ir. Arip PS. Sagala	Present Staff DJRRL)   Chief of Forest Maintenan Keforestation and Silviculture ce(Present Chief of Refor Techniques restation Technology Deve. lonnent Center in South	Keforestation and S Techniques	ilviculture
Mar 2- Jun 1 1983	Ir, Triyogo Soekanto	Kalimentan (BTR) c/p for forest Ecology (Field Manager, Fresent Section Chief of Direct	Forest conservation Techniques and Nana gement	
Mar 2 - Jun 1 1983	Ir. Retno Sekarsari	C/p for nursery (Section Chief of Rese- arch Dissemination, Seed Technology Center (BTP) Bogor)	Nursery Techniques and Nanagement	

Studied at Int e al Institute f space Survey a	Science (IIC) in Holland Iniqu-	iv ties i	. on Ge- m Vapan		ictivities rechniques	activities re techniques Rechniques Special training Agement course	ditto
Reforestation and nur sery activities and te chniques	Forest Protection ac- tivities and techniqu- es	Agroforestry activities and techniques	Observation tour on General forestry in Japan	âitto	Reforestation activities and Silviculture techniques	Reforestation activities and silviculture techniques Reforestation Techniques and forest management	ditto
Staff of Directorate Reforestation	Staff of Directorate Reforestation (Present	c/p for Agroforestry (Present c/p and staff BTR South Sumatera)	Chief of Sub Lirecto- rate of Forest Rehabi litation (Present Pro	ject manager) Chief of Sub Directo- rate of Forest Rehabi litation (Present Pro	Ject Manager) c/p for silviculture (Present c/p and staff BTR, South Sumatera)	Staff of Directorate of Reforestation Staff of Directorate of reforestation (Pre sent staff of Timor- Timur Regional Forest	Staff of Directorate of Programming
Ir. Tonny Hariwidianto	Ir. Pesman Pardede	Ir. Yadi Hariyanto	Ir, Pranono	Ir. Saptana Ph	Ir. Sutcmo	Ir. Endang Setiawan Ir. Lilik Amin Rahardjo	Ir. Loekito
• 1983/1984 Agst 25- Nov 24 1983	Dec 1, 1983- Feb 24 1986	March , 1983- Jun , 1984	2 1984/ 1985 4 Sep 29- Oct 26 1984	Sep 27-Dec 26 1984	Sep 27-Dec 26 1984	Sep 27-Dec26 1984 Agst 26-Nov 25 1984	Agst 26-Nov25 1984

Renerica	on techniques	on gene- lapan	l activities and techniques	and Nursery techniques agement		m activi-	a recontiques ation activities and ture techniques activitiesand techniques
Course	Forest Protection activities and te	Observation, tour on gene ral forestry in Japan	Reforestation activities and Silviculture techniques	Tree Breeding techniques Reforestation and forest mar	ditto	Forest Protection activi-	Lies and reconiques Reforestation activities and silviculture techniques Nursery activitiesand technic
Post	Staff of Directorate Referents restation (Fresent Staff South Sumatera Regional	Forestry Office) Field Manager of the Pro- ject and Chief of Reforest ation Technology Develop- ment Center (BTR) in South	Sumatera Staff of South Sumatera Provincial Forest Office	Staff of Directorate of Reforestation Staff of Directorate of Reforestation (Present Section Chief of Seedlings	of Reforestation Staff of Forest Research Institute	c/p for Forest Protection	c/p for Silviculture c/p for nursery
Name	Ir. Bin Setiyono	Ir. kardi Sabaruddin	Ir. Munawani	Ir. Soedaryanto Ir. Eko Bambang Sutedjo	Ir. Sofan Bustami	Ir. Hariyono	Ir. Bustami Ir. Edi Iswahyudi
Year Term	1985/1986 Oct 26-Dec 23 1985	Jan 19-Feb 7 1986	Mar 25-Jun 24 1986	1986/1987 Jul 8-Sep 9 1986 Agst 18-Nov 27 1986	Agst,18-Nov 27 1986	1987/1988 Agst 17-Nov 20	Jan 25-Mar 16 1988 (Mar ) 1988

	UAPANESE NAME	<b>Š</b>	Manguumo	Kanerere	Ooba-Nahogami.	Medan-Gataru	Manadda-nemu	Kamaba-Akashia	Yuukari	Kubinaga-tamabana-no-ki	Maruba-shitan	Gin-nemu	Nurude-modoki	Meukushi-matsu	Indo-shitan, Karim	Amerika nemu.Amefuri-no-ki		Kukui-no-ki	
DUES IN BENAKAT	ENGLISH NAME		Acacia mangium	Kamerere (PNG)	Mairogany	Medang gatal (Walaysia)	Sautree, Falcated leaved albizia, Malacca albizia	Papua wattle (PNG)	Paplar gum	Kelampayan (Malaysia)	Bombay blackwood, Eastern Indian Rosewood	Ipil-ipil, Giant ipil- ipil		Merkusi pine	Narra (Philippine)	Rain tree		Indian walnut	
21. LIST OF THE MAIN TREE SPECIES IN BENNKAT	INDONESIA NAME	and a strain of the second	Akasia mangium		Mahoni	Puspa/ seru	Segon laut/ Jeungjing	Akasia	Ampupu	Jabon Strategy (1997)	Sonokeling	Lamtoro	Sungkai		Angsana	kayu hujan	Akasia	Kentri	
	BOTANICAL NAME	2	Acacia mangium	Eucaliptus deglupta	Swietenia macrophylla	Schima wallichii van bancana	Albizzia falcataria	Acacia auriculiformis	Eucaliptus alba	Anthocephallus cadamba	Dalbergia latifolia	Leucaena leucocephala	Peronema canenses	Pinus merkusii	Pterocarpus indícus	Samanea saman	Acacia silvars pera	Aleurites moluccana	
	ON	,,	-	2.	ŝ	4.	ŝ	°	.70	° ∞	ი	10.	11.	12.	13.	14.	15.	16.	

	Tokiwa-gyorin Taiheiyo-tetsuboku	Kariandora	Erefanto-iyaa wfivo-ivaa	Kidachi-yooraku	Kenpasu	Ipiru-ipiru	Kayu puti	Karibia matsu	Shiro-gocho	Tenbaga	Senkawan	Tax i	Chiiku	ookarpa / Pino
4 Milky pine	Beef wood, Polynesian wood	Calliandra	Eleplant's ear	White teak		Ipil-ipil Ciant inil-inil	Cayuput oil tree	Carribbean pine	Vegetable humingbird	Tembaga	Senkawang	Chengal pasir(Malay)	JAti	
3 Pulai biasa	Cemara laut	Kaliandra		Kayu titi	Kempas	renge 15	kayu putih		<b>Imut</b>	Meranti tembaga	Meranti senkawang merah		Lea X	
2 Alstonia scholaris	Casuarina equisetifolia	Calliandra carathyrsus	Enterolobium cryclocarpum	Eucalyptus urophylla Grelina arborea	Koompasia malacensis	Lencaena glanca	Melaleuca leucaderon	Pinus caribaes	Sesbania grandiflora	Shorea leprosula	Shorea singkawang	Hopea odrata	Tectona grandis	Pinus oocarpa
Alstoni	Casu	Call	tea a		8 2 2	ц. Ч	ž.	Ċ,	Ŵ	ស	ល	Ĕ	Ĥ	ά.

	Seed Procurement	Nursery Operation	Increment	Uthization of Wood	Resistance of disease and insects
1. Shorea spp,	$c_{\rm m}$		C	A	B
2. Agathis_spp,	С	B	$\mathcal{C}^{(1)}$	A	4
3. Eucalyptus deglup	ia A	A	A	8	B -
4. Eucalyptus urophy	lla A	A	A	B 7-	B
5, Pinus merkusii	Α	Ą	В	ß	A
6. Peronema canecens	4	A	C	A	<u>A</u>
7. Acacia mangium	A	A	A	B+	<u> </u>
8. Tectona grandis	4	A	C	<u>A</u>	<u>A</u>
9. Santalum album	B -	A	C.	A	UN
10. Swielenia macroph	ylla D	A	Ç a	A	2
11. Araucaria spp.	<u> </u>	B-	C	UN	NN
12. Acacia auriculif	iormis A	A	1	C	4
13. Albizia falcatar	ia A	<u>A</u>	A	12 -	В
14. Dalbergia latifo	lia B	A	C	A	A
15. Gonystylus banca	nus UN	UN	UN	<u> </u>	UN.
16. Manilkara kauki	<u> </u>	A	C	<u> </u>	UN
17. Diospynos celebi	ca C	B -	C	A	UN
18. Pometia spp.	UN	4N	<u> </u>	1	<u>a N</u>
(1). Schima wallichii bancana	var. A	A	С	C	UN
(2). Pterccarpus indi	cus A	A	C	Batter	A
(3). Samanea saman	<u>B-</u>	A	<u>B</u> -	<u> </u>	<u>(1 N)</u>
(4). Eucalyptus alba	A	A	C	C	<u> </u>
(5). Antocephallus ca	idamba A	A	A	0	A
(6). Leucaena leucoce	phala A	A	A	13	С

# 22. Evaluation of Tree Species in Benakat Region *(DRAFT)

A: Excellent, Very Easy,

₿+

B -

B: Medium

.

C: Hard

UN: Unknown 

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## 23. Suggestion to the Project from JICA expert. SARAN-SARAN DARI JICA SEBAGAI BERIKUT :

1. Teknik yang ada dari persemaian sampai tanaman cukup memadai.

2. Maksud dari pada proyek adalah untuk mencari teknik reboisasi dan jenis pohon yang paling sesuai dengan daerah alang-alang di Benakat.

Sampai saat ini ada 4 jenis yang telah ditentukan :

- 1. Acacia mangium
- 2. Eucalyptus deglupta
- 3. Swietenia macrophylla
- 4. Schima wallichii var. bancana

Tetapi kita belum memikirkan jenis ini akan digunakan untuk apa.

3. Cara pengawasan/ tending belum diketahui.

Sebab hutan masih muda, belum pernah ditebang.

4. Yang kurang dari sistem agroforestry/ social forestry adalah :

1. Agronomy ; tanaman apa yang cocok/sesuai untuk petani

2. Peternakan ; sebab petani-petani membawa/ memelihara sapi.

Didalam rangka ini yang paling penting adalah Kehutanan berdiri bersama-sama dengan Pertanian dan Perternakan.

5. Teknik pemeliharaan mesin-mesin, peralatan besar masih ada yang kurang.

Sebab lokasi dan kondisi hutan yang sangat sulit untuk dicapai.

6. Sampai saat ini kita beruntung belum bertému déngan keadaan yang berat. Keselamatan kerja paling penting dalam aksi HTI.

7. Sampai saat ini, kita belum pernah mengalami kebakaran hutan.

Pada umumnya, sebab terjadinya kebakaran akibat dari ulah manusia sendiri bukan akibat dari alam.

SEKIAN

# 

## JAPAN INTERNATIONAL COOPERATION AGENCY

Japanere Embassy Compound. 24. Jalan Thamrin, Jakarta, Indonesia

No.

Tel. 322387, 324247, 326818, 321394 Telex, 44198 JICA IA

### . 31 Maret 1988

Kepada Yth, Bapak/ Ibu

Dengan hormat,

'Kami atas nama Ekspért JICA dengan ini mengucapkan banyak terimakasih atas kebaikan hati Bapak/ Ibu kepada kami selama Proyek Percobaan Tanaman Hutan di Benakat, Sumatera Selatan berlangsung.

Proyek tersebut dengan nomor ATA-186 telah selesai dengan hasil yang baik sekali pada tanggal 31 Maret 1988.

Proyek tersebut dimulai pada tanggal 12 April 1979. Sampai saat ini sudah berlangsung selama 9 tahun.

Dalam jangka waktu yang ini, kita telah berhasil membangun hutan baru dengan luas + 3.000 ha di daerah alang-alang di Benakat, Sumatera Selatan.

Hutan tersebut sangat indah sekali, dan kita semua merasa sangat puas. Dalam aktivitas proyek ini kita telah mendapat banyak pengalaman di daerah alang-alang; mulai dari persemaian, penanaman, membuat jalan hutan, mengawasi hutan, Forest Protection, Forest Machinary, Agroforestry dan lain-lain. Teknik-teknik dasar yang sesuai dengan daerah alang-alang untuk reboisasi dengan teknis yang sudah ditentukan.

Teknik ini paling penting pada kehutanan di Indonesia.

Kita yakin bahwa dengan teknik dasar kita sudah cukup memadai.

Susunan proyek sudah diresmikan sebagai BTR/ Balai Teknologi Reboisasi, Sumatera Selatan.

BTR ini Pusat Teknologi Reboisasi tidak hanya untuk seluruh Sumatera bahkan untuk seluruh Indonesia.

Para c/p di BTR, bukan bekas para c/p di Proyek, tetapi sudah menjadi Ekspert Reboisasi Indonesia pada saat ini.

Kita yakin bahwa Teknik yang dipergunakan di Benakat dapat disebar luaskan ke seluruh Indonesia.

Nantinya kita dapat banyak membuat Hutan baru yang indah yang sama dengan

#### INTERNATIONAL COOPERATION AGENCY JAPAN

Japanera Embassy Compound 24, Jalan Themrin, Jakarta, Indonesia

No.

Tel. 322387, 324247, 326818, 321394 Telex, 44198 JICA 1A

keadaan di Benakat.

Pada akhirnya,

Semoga sukses aksi Reboisasi di Indonesia dan selamat bertugas BTR Sumatera Selatan.

Selamat berpisah Benakat, Sumatera Selatan, sampai ketemu lagi. Sekian, terima kasih.

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1

Doomo, Arigato Gozaimashita. SAYC NARA.

1.19

Hormat kami,

Yasuyuki SUZUKI Chief Advisor for ATA-186

Masato SHIRAHAMA Expert Silviculture

Hashin Kyoji HASHIMOTO

Expert Agroforestry

Taro NAGATO

Expert Mesin

