

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

REPORT OF THE  
JOINT STEERING GROUP MEETING  
OF THE  
TRIAL PLANTATION PROJECT

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MARCH, 1988

JAPAN INTERNATIONAL COOPERATION AGENCY  
( J I C A )

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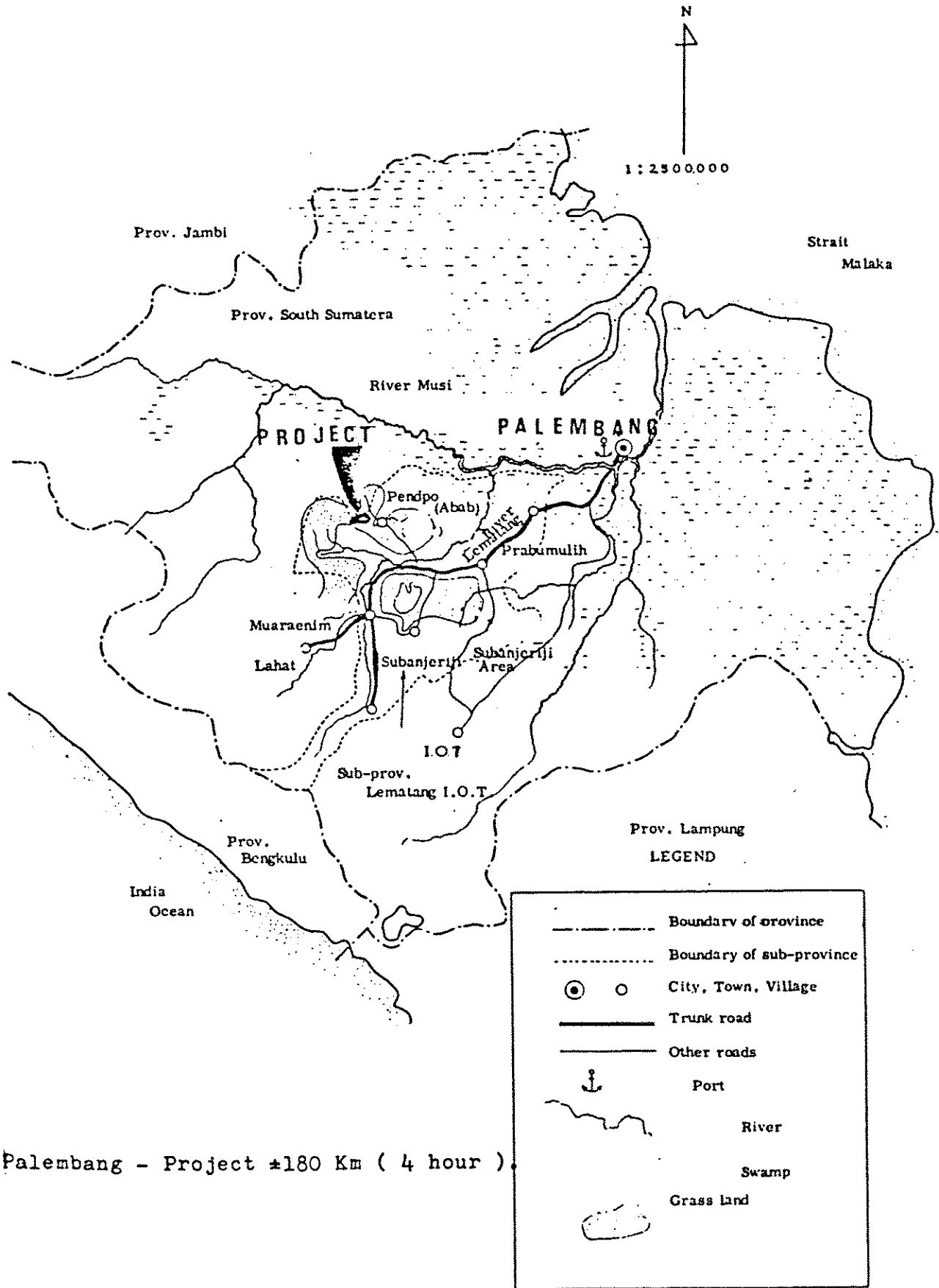
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OCTOBER, 6 th 1987



# LOCATION OF THE PROJECT



Palembang - Project  $\approx$ 180 Km ( 4 hour )





TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
IN BENAKAT - SOUTH SUMATRA

REPORT

FIRST JOINT STEERING  
GROUP MEETING.

JUNI, 14<sup>th</sup> 1980

DIRECTORATE FOR REFORESTATION AND  
LAND REHABILITATION

DIRECTORATE GENERAL OF FORESTRY

JUNI, 1980



## MINUTES OF FIRST JOINT STEERING GROUP

1. Date : Juli, 14<sup>th</sup> 1980
2. Place: Conference room of Directorate General  
of Forestry - Jakarta
3. Attendance

Indonesian SideJapanese Side

Apandi Mangundikoro  
( chairman )

M. Miyamoto

R. Soerjono

R. Kato

Soemitro Soemarno

T. Ishikawa

Harsono Reksowardoyo

T. Uchida

Nyoman Ardha

Y. Sakamoto

M. Saleh

K. Ohmi

Soejadi Hartono

K. Kotari (Observer)

Wazir Nengkenan

K. Arimitsu (Observer)

Sagala

S. Kadoya (Observer)

Pramono

N. Nanba (Observer)

Zulkifli

10

11

#### 4. Agenda

- Opening
- Project report
- Discussion
- Conclusion

#### 5. Opening

The chairman made an opening statement.

After introducing the attendance, the chairman informed the meeting about the main task of the Joint Steering Group (JSG) by reading SK Dirjen Keh. no. 1980/Kpts/DJ/1979. The main task of the JSG will be to formulate annual operation work plan, evaluate the progress and to deal with the specific problems of the project.

M. Miyamoto expressed his glad feeling to be present in this first meeting. To explain the meaning and importance of this project for the purpose of establishing of afforestation techniques on along - along field and intimating Japanese - Indonesian relation in particular. He asked the experts and counterparts to find the suitable techniques in which social life can be involved as sounded in World Forestry Congress last year in Jakarta. It was announced that so far, the Government of Japan have spent approximately 300 millions Yen on equipment. Finally the speaker expected this project to run with success.

#### 6. Project report

Sagala as the Co-manager of the project reported three points on the project : plan of operation, progress and problems,

- The speaker announced that the Plan of Operation already prepared for 5 years as the Master of the project, presented in Annex 1.) After the reading the main point this plan of operation, the speaker asked the meeting who will legalize this plan of operation.

- The physical progress of the project up to the moment has run in accordance with time schedule . 408 nursery - beds have been established following Japanese pattern. 80% of temporary office building has been completed measuring 300 square meters.

- current challenging problems.

1) Drinking water still not available.

And the budget for this still doesn't include in DIP 1980/1981. Therefore it should be taken into attention.

2) Accomodation still unavailable up to now, experts and counterpart still stay in Stanvac Mess until next August 1980.

3) Budget for handling cost of equipment which will arrive next year still unavailable in DIP 1980/1981.

Speaker presented written report as in Annex 2.

R. Kato Agreed with MR. Sagala about the problems of the project faced now in the field. And he explained the additional outline of the dispatch of Japanese experts, the provision of machinery and equipment, the implementation of the model infrastructure, the training of the Indonesian personal in Japan and the main project activity up to now presented in Annex 3. He expressed his wishes that the problems would be solved as soon as possible as we have discussed on meeting conducted between Directorate Reforestation and Land Rehabilitation and JICA Survey Team, On June, 12<sup>th</sup> 1980 summarize i in memorandum form in Annex 4.

Zulkifli presented written dealing with problems on equipment delivering from Japan to Indonesia and language problems as in Annex 5.

7. Discussion

MR. M. MIYAMOTO asked experts if the Plan of Operation stated by MR. Sagala had been prepared together with the experts.

MR. Kato Said " Yes ".

MR. Apandi Said that Plan of Operation not necessary legalised by this meeting owing to the fact that some items on the Plan of Operation such as budget should still be consulted with other departments.

IN reply to MR. Kato's question, MR. Apandi reminded that budgeting problem had been discussed and solved as in the meeting previous days, June, 12<sup>th</sup> 1980.

MR. Harsono expressed that the Plan of Operation as presented by MR. Sagala and MR. Kato normally representing an enclosure to Record of Discussion. It then be better signed by higher level authority.

MR. Soerjono took interest in Plan of Operation items that mostly consisting of reseach matters, so he wishes to participate in this activity.

MR. Kato, in comment to MR. Soerjono's idea, request the participation from LPH.

MR. Apandi, similarly request a counterpart from LPH.

MR. Archha , suggested this Plan of Operation be legalized as one of product of this Joint Steering Group.

8. Conclusion :

- 1) Plan of Operation accepted as master plan of project without any commitments on budgeting.
- 2) Joint Steering Group will conduct regular meeting to prepare annual working - plan.
- 3) The next meeting to formally legalize 1980/1981 annual planning schedule before this Fasting Month.
- 4) Dormitory establishment as well as equipment delivery from Palembang harbour will be accelerated to be ready for use in Nov. 1980.
- 5) Effort will be taken to extend logging permit in Stanvac Mess until completion of dormitory abovementioned.

Annex 2 . The progress and problem of the project.

Items	Target 1980/1981	Realization	Problem
I	2	3	4
1. Nursery	2 ha	Beds 408	no problem
2. Planting	200 ha	-	no problem ( will be done next Jan - Feb)
Road	2 km	2 km	no problem
3. Fire break	5,4 km	5	no problem ( will be done next October)
4. Building		80%	
- Temporary office	300 m2	-	Will be used next month
- Dermatory	165 m2	-	Will ready to use next November
- Office	120 m2	-	Now, Expert and counterpart stay in
- Work shop	60 m2	-	Stagnate those until August 1980.
- Potting house	50 m2	-	<u>Problems</u> : - no drinking water and electricity.
- Generator house	20 m2	-	- no accommodation for the expert from next September
- Oil stock room	15 m2	-	
5. Counterpart	-	Field Manager Silvicultur Nursery	Needed more 4 counterparts.



1	2	4
<p>6. Machinery</p> <ul style="list-style-type: none"> <li>- Fertilizer</li> <li>- Diesel engine 34 HP</li> <li>- Dump truck 5 ton</li> <li>- Cargo truck 3 ton</li> <li>- Jeep</li> <li>- Bike</li> <li>- Micro bus</li> <li>- Doser</li> <li>- Tractor</li> <li>- Soil burner and nursery equipment</li> <li>- Laboratory equipment</li> </ul>	<p>110 bags )  1 unit + 10% spare part )  1 unit + " - )  1 unit + " - )  5 unit + " - )  2 unit + " - )  1 unit + " - )  2 unit + " - )  1 unit + " - )  several unit )</p>	<p>now in Palembang Harbour will be arrived at the site at the beginning of next month ( July ).</p>
<p>7. Expert</p>	<p>-Chief Adviser  -Silvicultur (Team Leader)  -Lison officer  -Nursery</p>	<p>needed more 3 experts</p>
	<p>Local cost Rp.125,000,000  <u>JICA</u>  Machinery 60,000,000 Yen  Infrastructure  ± 21,000,000 Yen</p>	<p>Needed more some budget for</p> <ul style="list-style-type: none"> <li>- Building Facilities Rp.8,500,000</li> <li>- Handling cost Rp.5,000,000</li> <li>Exploitation cost of machinery Rp.5,000,000</li> </ul> <p>Total Rp.18,500,000</p>

FOR THE TRIAL PLANTATION PROJECT  
IN BENAKAT, SOUTH SUMATRA (PALEMBANG)

T.P.P. JOINT STEERING GROUP

JUNE 12, 1980

## 1. Dispatch of Japanese Experts

CATEGORY	NAME	Despatched Date
1. Chief Advisor	RZOSUKE KATO	Dec. 17, 1979
2. Silviculture	KATSUYUKI OHMI	Nov. 16, 1979
3. Liaison Officer	YOSHIICHI SAKANOTO	Dec. 17, 1979
4. Nursery	SEISHI NIURA	July 1980
5. Forest Engineering		August 1980
6. Forest Protection		October 1980
7. Forest Ecology		October 1980

## SHORT TERM EXPERTS

1. Civil Engineering	KIYOHRO YAMAZAKI	Mar. 19, 1980 - June 15, 1980
2. Dendrology	T. KAWASAKI	Mar. 31, 1980 - May 29, 1980
3. Watering System		
4. Pedology		
5. Forest Machinery		
6. Forest Economics		

## 2. Provision of Machinery and Equipment

	Arrival Date	Customs Clearance Date
Provision I	Feb. 9, 1980	Mar, 31, 1980
Provision II	Feb. 9, 1980	Apr. 25, 1980
Provision III	Apr. 15, 1980	NOT YET
Provision IV	Apr. 20, 1980	NOT YET
Provision V	June 6, 1980	NOT YET

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### 3. Implementation of the Model Infrastructure

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#### Contents

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Main Forest Road	720 m
Nursery Road	820 m
Nursery Bed	103 beds
Nursery Site Preparation	15.000 m <sup>2</sup>
Farm Pond	50 m x 40 m x 1.5. m

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Date of Contract	Feb. 29, 1980
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Date of Completion	June 10, 1980
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### 4. Training of the Indonesian Personnel in Japan

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1979/1980	( No Application )
1979/1980	1. High Personnel : Observation Tour
	2. Counterpart : Silviculture Training
	3. Counterpart : Nursery Training

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### 5. Main Project Activities

(1) To open the Project Implementation Meeting

(2) Administration Work

- a. To proceed the provision machinery
- b. To examine 80 / 81 budget
- c. To examine working plan
- d. To construct the temporary building
- e. To design building plan

(3) Nursery Work

- a. germination test
- b. soil analysis
- c. soil collection & soil burning
- d. preparation of germination box
- e. construction of temporary germination shed
- f. trial production of compact
- g. preparation of temporary watering system

(4) Plantation Work

- a. drawing compartment map
- b. examination of experimental plan

Annex 4

MINUTES OF MEETING HELD BETWEEN THE COOPERATION PLANNING SURVEY TEAM FOR TRIAL PLANTATION SURVEY TEAM FOR TRIAL PLANTATION PROJECT IN BENAKAT, SOUTH SUMATRA AND THE DIRECTOR OF REFFORESTATION AND LAND REHABILITATION, THE DIRECTORATE GENERAL OF FORESTRY, THE REPUBLIC OF INDONESIA ( MEMORANDUM )

The cooperation planning survey Team for Trial Plantation Project in Benakat, and the Director of Refforestation and Land Rehabilitation, the Directorate General of Forestry, the Republic of Indonesia held a meeting in a friendly atmosphere from smooth implementation of the project. The result of the above -- mentioned meeting is outlined as follows.

June 9, 1980

The Cooperation Planning  
Survey Team for Trial  
Plantation Project in  
Benakat, South Sumatra

1. Outline of the meeting
  1. Topics for the meeting
    - (1) Improvement of accomodation at the project site in Benakat.
    - (2) Supplementation of the budget for fiscal 1980
    - (3) Immediate take-over of machinery and equipment and their effective use
2. List of attendances

- (1) Japanese side
- Mr. Kasuhiro Kotari Leader, the Cooperation Planing Survey Team for Trial Plantation Project in Benakat, South Sumatra.
- Dr. Kazuto Arimitsu Afforestation, ditto.
- Mr. Seinosuke Kadoya Cooperation, ditto.
- Mr. Noriko Nanba Liaison Officer, ditto.
- Mr. Takeichi Ishikawa Embassy of Japan.
- Mr. Ryosuke Kato Chief Advisor, Trial Plantation Project in Benakat, South Sumatra.
- Mr. Yoshiichi Sakamoto Coordinator, ditto.
- Mr. Tomoshika Uchida JICA Jakarta Office.
- (2) Indonesia Side
- Mr. Apandi Mangundikoro Director of Refforestation and Land Rehabilitation, Directorate General of Forestry.
- Mr. Jaumura Chief of Sub Directorate Kawasan.
- Mr. Avip P.S.Sagala Staff of Sub Directorate --- Reforestation.
- Mr. Syahrir Chief of Sub Directorate Nursery.
- Mr. Pramono Staff of Sub Directorate --- Rehabilitation.
- Mr. Zulkifli Mulsan Field manager of Trial Plantation Project in Benakat, South Sumatra.
3. Place of the Meeting  
Conference Room of Director, Directorate General of Forestry. --
4. Time and Date of the Meeting  
June, 9, 1980 from 10.00 to 12.00 .

## II. Result of the Meeting

### 1. Improvement of accommodation at the project site in Benakat

- (1) The government of the Republic of Indonesia will complete the construction of the dormitory for both Japanese experts and Indonesian counterparts by the end of November, 1980, based on the Record of Discussion signed on April 12, 1979.
- (2) The quality of the above-mentioned dormitory should be higher than the guest house in STANVAC Residential Area which Japanese experts are using at present.
- (3) The Government of the Republic of Indonesia will make as much effort as possible to extend the period of rental contract between STANVAC, so the business of Japanese experts is not interfered further than present.
- (4) Preparation of accommodations mentioned by the Government of the Republic of Indonesia at the meeting ( above - mentioned (1) ) is not sufficient for the smooth operation of the project. Officials concerned of both Japan and Indonesia will discuss the construction of the other facilities, such as administration office, warehouse, generator house and oil stock room, which are supposed to be prepared this fiscal year at the Joint Steering Committee held on June 12, 1980.

2. Supplementation of the budget for fiscal 1980

There exists difference of about 50 million rupiah between the required cost ( 174, 474,000 Rp) of fiscal 1980 estimated by Japanese experts and the Indonesian budget available for this project ( 123, 285, 000 Rp ).

The Government of the Republic of Indonesia will make as much effort as possible to supplement the shortage of the budget ( approximately 17,900,000 Rp, excluding the cost of improvement of accommodations and the cost of take-over, Transportation and handling charge of machinery provided by Japan ).

3. Immediate take-over of machinery and equipment and their effective use

(1) The Government of the Republic of Indonesia will make as much effort as possible to take over machinery provided by Japan which has already arrived at Palembang Harbour ( sent from Japan at the beginning of April, 1980 and arrived at Palembang on April 15, 1980; sprinkler, fertilizer, sent from Japan at the beginning of May, 1980 and arrived at Palembang on June 6, 1980; vehicle, bulldozer ) and promote their effective use.

(2) The Government of Japan will make as much effort as possible to inform the Government of the Republic Of Indonesia of the cost and content of machinery which will be provided next fiscal year for the purpose of smooth take - over of machinery by the project.

## PART I - LEGAL CONTEXT.

This project document (hereinafter referred to as plan of operation) is an instrument specifying the technical implementation of project ATA - 186 with this plan of operation it is hoped that single minded action will be taken by the field Manager, Expert and Counterpart in carrying out this project.

## PART II - THE PROJECT.

### A. Development objectives.

The record of discussion signed in April, 1979 states that the purpose of the project is to develop and improve the following items:

1. Species trial
2. Nursery techniques
3. Planting techniques
4. Techniques for counter - measures against fire, insect and disease
5. Techniques of designing and managing forest roads and soil conservation work
6. Techniques for the application of machine power
7. Test and investigation on the environmental implication of afforestation
8. Test and studies of the social implication of afforestation
9. Planning and evaluation techniques of afforestation
10. Other necessary techniques

### B. Output.

The output of the project will take the form of reports, manuals, working paper/publication, and trained personnel in the field of plantation establishment, as follows:



Annex 3a. REALIZATION DEVELOPMENT ON TRIAL PLANTATION PROJECT IN

BENAKAT.

UP TO MAY 1980

No.	Activities	Target and realization in accordance with Expende Budget of								Notes	
		1978/ 1979		1979 / 1980		1980 / 1981		Realization (%)	Target		Realization (%)
		Target	Realization (%)	Target	Realization (%)	Target	Realization (%)				
3			4	5	6	7	8				
1.	Nursery Establishment	-	-	3,5 ha	31,59	2,0	-			*) Building planned to start in July 1980 and estimatedly complete in November 1980.	
2.	Plant Programme Setting	-	-	2100ha	3,86	-	-				
3.	Plant Establishment	-	-	-	-	200 ha	-				
4.	Building Establishment	300sqm	100	-	-	A30 sqm	-*)			General - Work delay due to arrival of expert and implements. - Arrival of expert in November 1979. - Arrival of Implements in April 1980 and - June 1980, Delivery permit being processed at present.	

Annex 3b : JICA JOINT SUB - PROJECT ACTIVITIES

REALIZATION, PROBLEMS TO FACE AND WAY-OUT  
AT BENAKAT, SOUTH SUMATRA

NO. Realization/COMPLETED Activities	PROBLEMS TO FACE	PROBLEMS WAY-OUT
<p>1. <u>N u r s e r y</u></p> <p>1. Activities/Preparation for nursery pre - facilities</p>	<p>Delivery of EX JICA/Japan's implements/machines/vehicles still undergo concollation at Palembang harbour.</p> <p>Out-delivery permit from SEKKAB has not yet been granted inspite of the fact that application and its requirements have been proposed for 2 months.</p>	<ul style="list-style-type: none"> <li>- Delivering time extended so as to have all procedures and delivering processes completed at the point of need.</li> <li>- All documents delivered prior to arrival of goods/implements at least 3 months ahead.</li> <li>- Either procedure be simplified or goods/implements for technical cooperation be given exception.</li> <li>- Procedure acceleration to SEKKAB.</li> <li>- Recommending JICA to do as much local purchasing as possible.</li> </ul>
<p>2. Work/Nursery Operation</p>	<p>Insufficient water supply due to small quantity of river water especially for the coming dry season.</p>	<ul style="list-style-type: none"> <li>- Pend establishment in order to store runoff water of falling rain on the entire nursery area.</li> </ul>

Realization/Completed No Activities	Problems to face	Problems Way outs
--	------------------	-------------------

- Dam Establishment/onconcerned river
- Research for other water re-source such as establishment of artificial well.

II. Planting

- Plant Programme Setting - Unidentified status of forest areas ( those still registered as reforestation of 1976/1977) 1977 turning to be barren/failed areas.

III. General

- (Transfer of Technology) - Communication difficulty, Experts only able to communicate in Japanese Language.
- Expert admittance selection by insisting on international language (English) as one of the conditions, or by training counterparts to speak Japanese.
- Substituting or previously selecting then by insisting on some minimum conditions such as :

NO.	Realization/Completed Activities	Problems To Face	Problems Way - Out
		<ul style="list-style-type: none"> <li>- Manual, handbook and other text books all printed in Japanese characters</li> </ul>	<ul style="list-style-type: none"> <li>- Educational Background.</li> <li>- Ability /Skill /Specialization.</li> <li>- Experience, etc.</li> </ul>

BALANCE TABLE BETWEEN THE BUDGET AND THE NECESSARY EXPENSE IN 1980/1981. ATA-18c  
(1,000RP)

Item	Budget	Necessary Expense	Balance	Remarks
<b>ADMINISTRATION EXPENSE</b>				
Personnel Cost	13.280	10.260	+3.020	
Traveling Cost	14.004	12.936	+1.068	
Material Cost	9.990	14.300	-4.310	Fuel and Material for Water Supply.
Service and Maintenance Cost	13.020	18.750	-5.730	Opening Ceremony, Printing of Pamphlet and Report.
<b>Building and Facilities Expense</b>				
Transportation	26.910	41.750	-14.840	Difference of Unit Price Supplied Machinery
Total	77.204	115.996	-38.792	
<b>NURSERY EXPENSE</b>				
Personnel Cost	5.092	7.060	-1.968	Construction of Nursery Site
Material Cost	2.340	8.572	-6.232	" "
Service and Maintenance Cost	3.000	5.000	-2.000	" "
Total	10.432	20.632	-10.200	
<b>PLANTATION EXPENSE</b>				
Personnel Cost	17.475	8.470	+9.005	
Material Cost	8.300	7.555	+745	
Service and Maintenance Cost	0	4.000	-4.000	Maintenance of Machinery
Total	25.775	20.025	+5.750	
<b>ROAD CONSTRUCTION</b>				
Personnel Cost	2.500	1.890	+610	
Material Cost	2.000	8.581	-6.581	Fuel for Machinery
Service and Maintenance Cost	2.700	2.000	+700	
Total	7.200	12.471	-5.271	
<b>PROTECTION EXPENSE</b>				
Personnel Cost	575	1.360	-785	
Material Cost	0	2.500	-2.500	Fuel for Machinery, Tower
Service and Maintenance Cost	2.100	1.500	+500	
Total	2.675	5.360	-2.685	
<b>TOTAL</b>	<b>123.286</b>	<b>174.484</b>	<b>-51.198</b>	



ANNUAL NECESSARY EXPENSE PLAN  
FOR THE TRAIL PLANTATION PROJECT IN BENAKAT  
SOUTH SUMATERA (PALEMBANG)

T.P.P. JOINT STEERING GROUP

June 12, 1980

Expense : 1000 Rp.

	1st Year (79/80)	2nd Year (80/81)	3rd Year (81/82)	4th Year (82/83)	5th Year (83/84)	T O T A L
1. Administration Expense	47.836	115.996	363.419	123.950	141.327	792.528
(1) Management & etc. Expense	40.746	74.246	76.919	86.885	104.262	383.058
(2) Construction Expense	7.090	41.750	286.500	37.065	37.065	406.470
2. Nursery Expense	8.850	20.632	31.572	47.203	55.400	163.657
3. Plantation Expense	7.860	20.025	29.420	42.318	46.609	146.232
4. Road Expense	0	12.471	15.125	21.035	8.665	57.296
5. Protection Expense	0	5.360	9.786	10.694	5.464	31.304
6. Ecology Expense	0	0	2.575	3.075	3.075	8.725
<b>T O T A L</b>	<b>64.546</b>	<b>174.484</b>	<b>451.897</b>	<b>248.275</b>	<b>260.540</b>	<b>1.199.742</b>

Table I. Working & Management of the Project

Undertaking	1st Year	2nd Year	3rd Year	4th Year	5th Year	TOTAL
1. Counterpart						
2. Administration Staff	3	7	7	7	7	---
3. Building & Facilities	4	4	16	17	17	---
(1) Palembang Office	(100 m2)	954 m2	2.941 m2			3.895 m2
(2) Operation Building & Facilities	(80 m2)	260 m2	40 m2			300 m2
a. Store House			200 m2			200 m2
b. Warehouse for Vehicles			500 m2			500 m2
d. Workshop garage			60 m2			150 m2
d. Generator, Oil & Pump House		90 m2	226 m2			226 m2
e. Compost Shed			234 m2			234 m2
f. Germination Shed		(256 m2)				(256 m2)
g. Working Shed			402 m2			402 m2
h. Workers' Dormitory			18 m2			18 m2
i. Gurd Box						
(3) Administration Building						
Facilities	(100 m2)	150 m2	100 m2			250 m2
a. Project Office			150 m2			150 m2
b. Afforestation Office		198 m2	336 m2			534 m2
c. Dormitory	(120 m2)		315 m2			315 m2
d. Laboratory & Lecture Room			360 m2			360 m2
e. Guest House						
Expense (1000Rp)						
1. Management Expense	33.396	60.337	76.919	86.885	104.262	361.799
2. Construction Expense	7.090	41.750	225.500	---	---	274.340
3. Cost of Equipment	7.350	13.909	61.000	10.000	10.000	102.259
4. Building Maintenance Cost	---	---	---	27.065	27.065	54.130
T O T A L	47.836	115.996	363.419	123.950	141.327	792.528



Table 2 Nursery Practice

	1st Year	2nd Year	3rd Year	4th Year	5th Year	TOTAL
<b>Undertaking</b>						
1. Survey		30.0 ha				3.5 ha
2. Land Preparation	(1.5 ha)	2.0 ha				.166.7 kg
3. Seed Collection		16.7 kg	50.0	50.0	50.0	1.400 beds
4. Construction of Nursery Bed	(108 beds)	411 beds	351	300	200	4.119.800
5. Seeding		439.00	791.500	1/365.700	1.523.500	4.119.800
6. Transplanting into Pots		439.100	791.500	1.365.700	1.523.500	4.119.800
7. Tending		439.100	791.500	1.365.700	1.523.500	4.119.800
8. Out - planting		351.300	634.400	1.092.500	1.218.800	3.297.000
9. Preparation of Compost		58 m3	180	200	200	638 m3
10. Preparation Work		127 labor	245	1.228	----	1.600 labor
11. Others (arboretum, etc.)		50 labor	317	450	300	1.117 labor
<b>Expense</b>						
1. Workers' Wages	4.755	7.060	12.872	19.153	21.740	65.580 <sup>1/2</sup>
2. Cost of Supplies	4.095	6.365	6.200	9.300	11.160	37.120
3. Fuel Expense	0	3.707	8.500	12.750	15.300	40.257
4. Machinery Repair Cost	0	3.500	4.000	6.000	7.200	20.700
<b>T O T A L</b>	<b>8.850</b>	<b>20.632</b>	<b>31.572</b>	<b>47.203</b>	<b>55.400</b>	<b>163.657</b>
<b>Number of Workers</b>	<b>4.755</b>	<b>6.060</b>	<b>10.385</b>	<b>14.187</b>	<b>16.104</b>	<b>51.491</b>

Table 3 Experimental Plantation

		1st Year	2nd Year	3rd Year	4th Year	5th Year	TOTAL
, Undertaking	1. Survey		200 ha	400	700	800	2.100 ha
	2. Experimental Plantation		200 ha	400	700	800	2.100 ha
	(1) Growth Increment Test		200 ha	200	300	300	1.000 ha
	(2) Mechanization Test			150	50	100	850 ha
	(3) Tree Species Introduction Test			50	100	100	250 ha
3. Tending			200 ha	600	1.300	2.100	4.200 ha
4. Setting of Fixed Plot			150 plots	300	270	340	1.060 plots
5. Fixed Plot Survey			150 plots	450	720	1.060	2.380 plots
Expense (1000Rp.)							
1. Workers' Wages		3.160	8.470	11.820	16.818	20.209	60.477
2. Cost of Supplies		4.400	5.954	10.400	16.800	17.600	55.154
3. Fuel Expense		0	1.601	2.400	3.500	3.200	10.701
4. Machinery Repair Cost		0	4.000	4.800	5.200	5.600	19.600
5. Others		300	0	0	0	0	300
T O T A L		7.860	20.025	29.420	42.318	46.609	146.232
Number of Workers		3.160	5.730	9.805	13.950	16.763	49.408

Table 4 Forest Road

	1st Year	2nd Year	3rd Year	4th Year	5th Year	TOTAL
Undertaking 1. Construction of Forest Road						
(1) Main Forest Road	(1.7 km)	17.2 km	23.7	31.8	0	74.4 km
(2) Working Forest Road	(1.7 Km)	2.3 km	2.6	3.8	0	10.4 km
(3) Feeder Road		7.8 km	9.2	16.0	0	33.0 km
2. Maintenance of Forest Road		7.1 km	11.9	12.0	0	31.0 km
(1) Main Forest Road		3.0 km	5.6	9.4	9.4	27.4 km
(2) Working Forest Road		7.8 km	17.0	33.0	33.0	90.8 km
(3) Feeder Road		7.1 km	19.0	31.0	31.0	88.1 km
Expense						
1. Workers' Wages	0	1.890	3.796	5.605	1.665	12.956
2. Cost of Supplies	0	6.661	4.084	6.030	3.000	19.775
3. Fuel Expense	0	1.920	3.245	4.400	2.000	11.565
4. Machinery Repair Cost	0	2.000	4.000	5.000	2.000	13.000
T O T A L	0	12.471	15.125	21.035	8.665	57.296
Number of Workers	0	1.720	3.080	4.546	1.350	10.696

Table 5 Forest Protection

Undertaking	Year					TOTAL
	1	2nd	3rd	4th	5th	
1. Countermeasure to Forest Fire						
(1) Fire Breaks		23.9 km	35.7	46.8	17.0	123.4 km
(2) Cover Plant		32.9 ha	49.3	65.6	34.0	181.8 ha
(3) Lookout Tower			2	1	0	4
(4) Reservoir		0	3	3	0	6
(5) Sign-Board		20	30	50	60	160
(6) Patrol		250 labor	400	700	800	1,150 labor
(7) Fire fighting Exercise		0	1	2	1	4
2. Countermeasure against insects, disease and meteorological damage						
1. Workers' Wages						
		0	1.360	2.076	2.749	2.064
2. Cost of Supplies						
		0	1.555	4.110	4.045	900
3. Fuel Expense						
		0	945	1.800	2.100	1.500
4. Machinery Repair Cost						
		0	1.500	1.800	1.800	1.000
	T O T A L	0	5.360	9.786	10.694	15.464
Number of Workers		0	1.150	1.661	2.199	1.651
						6.661

Tabel 6 Forest Ecology Analysis

	1st Year	2nd Year	3rd Year	4th Year	5th Year	TOTAL
Undertaking						
1. Analysis of Fixed Plot						
2. Natural Environment Survey						
3. Social Environment Survey						
4. Analysis of Meteorological Observation						
Expense						
1. Workers' s Wages	675	675	675	675	675	2.025
2. Cost of Supplies	1.000	1.500	1.500	1.500	1.500	4.000
3. Fuel Expenses	900	900	900	900	900	2.700
4. Machinery Repair Cost	0	0	0	0	0	0
T O T A L	2.575	3.075	3.075	3.075	3.075	8.725
Number of Workers	500	500	500	500	500	1.500



TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT , SOUTH SUMATERA.

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REPORT OF THE SECOND JOINT STEERING  
GROUP MEETING. 30<sup>th</sup> 1980.

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DIRECTORATE GENERAL OF FORESTRY  
DIRECTORATE REFORESTATION AND  
LAND REHABILITATION  
JULY , 1981.





Summary of The Second Joint Steering Meeting  
for Trial Plantation on Benakat - Palembang  
South Sumatera (ATA - 186 ).

The Second Joint Steering Meeting has been held on October  
30<sup>th</sup>, 1980, attended by :

From the Indonesian Government :

1. Ir. Soedjadi Hartono : As. Chairman, Vice Director Reforestation  
and Rehabilitation.
2. Ir. Syahrir : Chief of Sub Directorate of Seeds.
3. Ir. Suharyanto : Acting Field Project Manager.
4. Ir. Sagala : Staff Sub Directorate Reforestation.
5. Ir. M. Wazir Nengkemam : Project Leader P3RPDAS South-Sumatera.
6. Drs. Sutarto : Staff of Directorate of Forestry  
Programing.
7. Pramono BSc. : Staff of Sub Directorate Rehabilitation.
8. Wilman Kamil S. : Staff of Sub Directorate Reforestation.

From JICA ( Japanese Government ) :

1. Mr. M. Miyamoto : JICA Representative for Indonesia.
2. Mr. T. Ishikawa : Secretary of the Japanese Embassy.
3. Mr. T. Sugihara : JICA Assistant Resident Representative.
4. Mr. Y. Sakamoto : Liaison officer.
5. Mr. Ryosuke Kato : Chief Adviser.
6. Mr. Katsuyuki Ohmi : Expert, Team Leader.

Agenda of meeting.

1. Opening remark by the chairman.
2. Project report First Semester 1980/1981.
3. Annual Operational Plan 1981/1982.
4. Other Matters.

1. OPENING REMARKS.

The chairman made an opening remarks. He apologized for the absence of Mr. Apandi, who should be chairing this meeting. Mr Apandi then assigned him to preside to day's meeting. The agenda of the meeting is stated on point 4.

2. PROJECT REPORT

Mr. Suharyanto in his capacity as field manager presented 2 reports i.e. Progress Report and current matters the project is dealing with.

2.1. Progress report.

<u>Item</u>	<u>Target</u>	<u>Realization</u>
1) Nursery stock for 1980/1981	3,5 Ha	84 %
2) Nursery stock for 1981/1982	2 Ha	-
3) Compartments measure and designing.	4 comp	100 %
4) Planting	202 Ha	Planting line clearing.
5) Forest road	2,5 Km	-
6) Fire belt	5,4 Km	-
7) Building		
Dormitory	165 m2	
Workshop	60 m2	
Office	120 m2	
Potting house	50 m2	80 %
Generation house	20 m2	
Oil stock room	15 m2	
Guest house	70 m2	
8) Equipment	Several unit	2 unit of dozer were still being kept on the Palembang harbour.

2.2. Current Matters.

- 1) Because of low viability of Eucalyptus deglupta seeds, seedling for this species has not been prepared yet.
- 2) Number of seedling prepared for 1980/1981 planting season amounts to 450.000 seedling. However, this amounts of seedling is more than needed (202 Ha). It is not decided yet how to use the remaining stock.
- 3) On using the auto - auger for hole digging and bush cutter for strip line clearing has not reached the expected productivity and efficiency. The cost is higher than manual power. However the normal capability of manual power on strip line clearing and hole digging can not reach the target. The available budget for this activity is too small to cover the target.

The growth of alang - alang after cutting is very fast. It is necessary to carry out intensive weeding to keep the seedling free from alang - alang.

- 4) Difficulty in finding drinking - water.  
The budget for electricity installation is unavailable. The project has sent proposal letter to revise another budget arrangement.
- 5) The project requested another to foresters for counterpart and one more expert.
- 6) Traffic licence for cargo truck, grand truck and dump truck can not be issued, because vehicle gross weight of these truck exceeds maximum road capacity.
- 7) Solution on the 8 lost earth units - auger in Palembang port has not been completed yet.
- 8) Up to the present, we have not employed a mechanic at higher salary than our standard.
- 9) More budget is needed for :

- Building facilities	Rp. 8.500.000,-
- Handling cost	Rp. 5.000.000,-
- Exploitation cost of machinery	Rp. 5.000.000,-

---

Rp 18.500.000,-

### 3. RESULTS OF THE MEETING:

#### 3.1. Seeds and seedling.

- 1) The JICA Team will make plan of seeds needed, the species and amount to be planted.
- 2) The remaining stocks of seedling planted in 1980/1981, which amount to more than 400.000 seedling, will be delivered to Regional Forest Office. Mr. Wazir will make the arrangement of consultation with Forest - office in Palembang.
- 3) Ajustment must be made of the design due to difference between plan of operation (page 39,44,61) with that on the implementation design. Attention to Mr. Kato.

#### 3.2. Equipments.

- 1) Document for customs clearing of Angle dozer will be supplied as soon as possible. Attention is given to Mr. Pramono.
- 2) Money amounting to 1,8 million rupiah will be made available to the project Manager for transporting equipment from Palembang Harbour to Benakat.
- 3) Heavy cargo truck ( 6 ton ) which will be used solely for the activities within the project area, due to difficulties to obtain transportation licence.
- 4) JICA Team will immediately respond to Tokyo to deliver lighter cargo trucks ( 4 wheel drive , 2 ton capacity).
- 5) The Counterpart will supply the mechanic and drivers of the equipments ( Angle dozer, cargo trucks).
- 6) Total budget for equipment for fiscal year 1980/1981 is 120.000.000. yen

#### 3.3. Building.

- 1) Facilities will be constructed by the JICA Team in 1980/1981 are as follows :

- a. Water pipes and pumps 300 meters.  
The cost Rp. 5.100.000,-
  - b. Temporary shed for machineries.  
Rp. 6.400.000,-
  - c. Potting house  
Rp. 5.600.000,-
  2. JICA Team will make a justment for workshop/garage already constructed, which does not meet requirement as stated in design (Page 73).
  3. Revised budget for electricity installation. Attention to Mr. Sagala.
- 3.4. Other matters.
- 1) Additional of 2 counterparts ( Forestry degree ).  
Attention to Mr. Sagala to contact Mrs. Roosdayanti (Personnel staf ).
  - 2) Document of Mr. Tashiro from Sekkab.  
Attention to Mr. Pramono, and Mr. Miyamoto promised to help contact the authority concerned.
  - 3) Annual Plan 1980/1981, officialy approved.  
Legalization should be made by the Project Manager.
  - 4) Annual Plan 1981/1982.  
Due to uncertainly of the budget allocated, the Joint Steering Committee suggest that the matter be made clear first. The next Steering Committee meeting will decide legalization of the Annual Plan 1981/1982.  
Proposed budget of 1981/1982 amounting to 490 million rupiah should be specified to important activities to as continuation of 1980/1981 plan.
  - 5) Consultant will be made with Mr. Apandi regarding th. Plan of Operation. Annual as well as Five Year Plan.
  - 6) The next meeting will be held early in December 1980.

Jakarta, October 30<sup>th</sup>, 1980.



TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT , SOUTH SUMATERA.

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SUMMARY OF THE PROJECT.

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DIRECTORATE GENERAL OF FORESTRY  
DIRECTORATE REFORESTATION AND  
LAND REHABILITATION  
JULY , 1981.





SUMMARY  
TRIAL PLANTATION PROJECT  
IN BENAKAT  
SOUTH SUMATERA  
-( ATA - 186 ).

The output of the project will take the form of reports, manuals, working paper publication, and trained personnels, in the field of plantation.

1. Executing agency : Direcorate of Reforestation and Land Rehabilitation. Directorate General of Forestry.
2. Project duration : 5 years  
April 1979 - April 1984.
3. Objectives of the Project :
  - 3.1. Trial plantation forest : to test the initial growth and suitability of a number of tree species.
  - 3.2. Nursery : to test, develop and prepare nursery techniques and facilities.
  - 3.3. Planting techniques and other facilities for example :
    - to investigate development and comparison of techniques for planting, tending and transportation / facilities.
    - to investigate and determine suitable measures for prevention and control of fire.
  - 3.4. Training course : to provide adequate training in all aspects of nursery, planting, tending development.
4. Project activities :
  - 4.1. Nursery ;

- a. seedling total : 4,126 seedlings
- b. beds ( 1.2 x 12 x 0.1 m) total : 2,497
- c. soil for pots total : 5,515 m<sup>3</sup>.

4.2. Planting :

- a. Manual experiment : 1.000 ha.
  - b. Mechanization experiment : 850 ha.
  - c. Introduction experiment of new tree species : 250 ha.
- Total : 2.100 ha.

4.3. Tending :

- a. 1<sup>st</sup> year : 2100 ha
- b. 2<sup>nd</sup> year : 1300 ha
- c. 3<sup>rd</sup> year : 600 ha
- d. 4<sup>th</sup> year : 200 ha

4.4. Chemical : 15 ha.

4.5. Fertilizing : 104.5 tons

4.6. Fire break

- a. along main road : 18,8 km
- b. along operational road : 66 km
- c. around annual planting area : 62 km.

4.7. Road construction :

- a. Main road : 18,8 km
- b. Operational road : 66 km
- c. Spur road : 62 km

4.8. Fire tower : 4 units. ✓

4.9. Building and facilities : 2,360 m<sup>2</sup>.

5. Budget allocation.

From the Government of the Republic of Indonesia =  
Rp. 1.100.000.000,-

From the Government of Japan = 363 million yen (+  
Rp. 2.400.000.000,-).

-1979/1980, From the Government of the Republic of Indonesia Rp. 57.456.000,-

From the Government of Japan 113.725.000 yen.

1980/1981, From the Government of the Republic of Indonesia Rp. 139.974.000,-

From the Government of Japan Rp. 498.286.000,-

## 6. Current Progress up to March 1981.

### 6.1. Field activities

#### a. Nursery.

Nursery establishment has reached 38 %. Other activities on nursery include :

- Vegetative planting test on Peronema canescens.
- Establishment of arboretum 0,25 ha, with species of Pinus merkusii, Eucalyptus deglupta, Albizzia falcataria, Leucaena glauca, Switonia macrophylla, Calliandra sp.
- Germination test of Pinus merkusii.
  - investigation on work capability.

#### b. Plantation.

Up to April 1981, 200 ha has been planted with : Pinus merkusii for 50 ha, Albizzia falcataria for 50 ha, Eucalyptus urophylla for 50 ha and Switonia macrophylla for 50 ha.

Replanting of Albizzia falcataria has been completed. Replanting, weeding and rooting up will be carried out.

The successful growth of Albizzia falcataria and Switonia macrophylla is 83 % and 91 % respectively.

#### c. Road construction.

Road construction has been completed as far as 38 km exceeding the target of 20 km, but it has only been stone - coated as far as 1.5 km.



#### d. Fire break.

Fire break establishment (29 km) has been completed covering 5.26 km (99.4 %).

### 6.2. Building and facilities.

#### a. Building :

- |                         |                          |
|-------------------------|--------------------------|
| - administration office | - pump house             |
| - sheds                 | - pond                   |
| - store house           | - oil stock room         |
| - experts dormitory     | - extension office       |
| - work shop and garage  | - peeling house          |
| - generator house       | - fertilizer stock house |

#### b. Facilities.

- |                 |                    |
|-----------------|--------------------|
| - J e e p : 5   | - tractor : 3      |
| - motor cycle   | - dozer : 2        |
| - truck : 8     | - forklift : 1     |
| - micro bus : 1 | - motor grader : 1 |

### 6.3. Expert

	<u>Category</u>	<u>Name</u>
Long term experts :	-chief adviser	Ryosuke Kato
	-silviculture	Katsuyuki OHMI
	-nursery	Hirote Yamate
	-forest engineering	Koji Tashiro
	-forest protection	Seishi Miura
	-liaison officer	Yoshiichi Sakamoto
	-forest ecology	Esao Hotta
Short term experts.	-civil engineering	Kiyochiro Yamazaki
	-nursery practice	Tadashi Kawasaki
	-watering system	Tatsuo Hasagawa
	-forest machinery	Tadao Yokoyama

### 6.4. Fellowship

- a. Training of the Indonesian Personnel in Japan : August  
October  
1980.



- Muhammad Wazir Nengkeman August-Oct.  
1980
- Hardjono Arisman August-Oct.  
1980
- Zulkifli Mulsani August-Oct.  
1980.

b. Fourth coming trainees . on next July 1981

1. Anto Rimbawanto
2. Tata Wiharta
3. Sri Mulyadi
4. I. Nyoman





PROBLEMS SOLVING

**THE CHOICE OF SPECIES**

1. Species test
  - a. Elimination phase
  - b. Proving phase
2. Provenance test
  - a. Elimination phase
  - b. Proving phase
3. Planting trial  
(continuation of 1.b. + 2.b.)

**SILVICULTURAL TRIAL**

1. Nursery
  - 1.1. Germination
    - 1.1.1. Direct seeding
      - a. Kind of seeds (seed, vegetative)
      - b. Pre treatment of seed
      - c. Container
        - pot (kind, size)
        - seedbed (type, size, materials)
      - d. Media of growth (materials, preparation method)
      - e. Sowing system (equipments, method)
      - f. Maintenance system :
        - watering ( equipments, method)
        - shading (materials, type, size)
        - fertilizer (type of fertilizer, dosis, time, equipments, method)
        - weeding (materials, equipments, method)
        - wrenching, top pruning, (materials, equipments, method)
      - g. Growth analysis (biomass, total height, stem diameter, % germination, age of plant)
    - 1.1.2. Indirect seeding
      - a. Kind of seeds (seed, vegetative)
      - b. Pre treatment seed
      - c. Germination seedbed (kind, size, materials)
      - d. Germination media (materials, prepare method, equipments)
      - e. Sowing system (equipments, method)
      - f. Weaning system :
        - container :
          - pot (kind, size)
          - seedbed (type, size, materials)
        - media of wean (materials, prepare method, equipments)
        - weaning (equipments, method)
      - g. Maintenance system
        - watering (equipments, method)
        - shading (materials, type, size)
        - fertilizer (type of fertilizer, dosis, time, equipments, method)
        - weeding (materials, equipments, method)
        - wrenching, top pruning, mulching (materials, equipments, method)
      - h. Growth analysis (biomass, total height, stem diameter, % germination, age of wean, age of plant)
  - 1.2. Seedling transportation to plant location
    - a. Treatment of seedling
    - b. Equipments and transportation system
    - c. Method
2. Plantation
  - 2.1. Field preparation
    - a. Land clearing
      - line (size, equipments, method)
      - grand total (equipments, method)
    - b. Soil plowing (equipments, method)
  - 2.2. Plantation system
    - a. seeds, seedling (with potting media, bareroot, wilding), stump, cutting system
    - b. Equipments & method, time
  - 2.3. Plantation distance
  - 2.4. Maintenance system
    - a. Fertilizer (type of fertilizer, dosis, time, method, equipments)
    - b. Weeding (time, equipments, method)
    - c. Thinning (time, equipments, method)
    - d. Pruning (time, equipments, method)
  - 2.5. Growth analysis (biomass, Total hight, stem diameter, % germination).

**INTERVAL PURPOSE**

1. Suitable plantation
2. Suitable technique for nursery :
  - kind of seeds
  - direct/indirect seeding
  - time
  - growth media
  - maintenance system
  - criteria of seedling for planting
3. Suitable weeding transportation
4. Suitable planting :
  - land clearing system
  - soil plowing system
  - plantation distance
  - maintenance system
5. Management :
  - equipments & suitable machine
  - planning and efficiency of organization
  - man power rational
  - standard cost

**FINAL GOAL**  
The pattern of reforestation

**PROBLEMS**

1. Brushwood/Imerain cylindrica
2. Selection of species
3. Management

**MANAGEMENT TRIAL**

1. Time and work study
2. Organization and man power analysis
3. Equipments and machine analysis
4. Cost analysis



**TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT, SOUTH SUMATERA**

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**REPORT OF THE THIRD JOINT  
STEERING GROUP MEETING.**

**JUNE, 8<sup>th</sup> 1981**

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**DIRECTORATE GENERAL OF FORESTRY  
DIRECTORATE REFORESTATION AND  
LAND REHABILITATION**

**JULY, 1981**



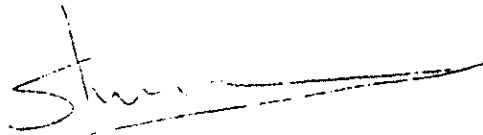
Transmittal Letter.

Dear Sirs,

We have the honour to transmit herewith the Report of the 3<sup>rd</sup> Steering Group Meeting, which was held in Jakarta, June 2<sup>th</sup>, 1981.

Accept Sirs, the assurance of our highest considerations.

Jakarta, July 24, 1981.

A handwritten signature in black ink, appearing to be 'Sudjadi', with a long horizontal stroke extending to the right.

1. Ir. Soedjadi Hartono.

A handwritten signature in black ink, appearing to be 'Ryosuke Kato', with a horizontal line underneath.

2. Mr. Ryosuke Kato.



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REPORT OF THE THIRD JOINT STEERING MEETING  
FOR TRIAL PLANTATION AT BENAKAT, PALEMBANG  
===== SOUTH-SUMATERA ATA-186. =====

1. The Third Joint Steering Meeting was held on June, 8<sup>th</sup> 1981 attended by:

From the Indonesian Government

1. Ir. Apandi Mangundikoro : Director of Reforestation and Land Rehabilitation as Chairman.
2. Ir. Soedjadi Hartono : Chief of Sub-Directorate of Reforestation.
3. Ir. Soerjono : Chief of Forest Research Institute.
4. Ir. Victor Sinaga : Chief of Regional Forest Office of South Sumatera.
5. Ir. Syahrir : Chief of Sub-Directorate Of Plant Material.
6. Ir. Nyoman Ardha : Planning Bureau Staff, Dept. of Agriculture.
7. Ir. Wazir Mengkaman : Project Leader of P3RPDAS Musi, South Sumatera.
8. Ir. Tetti S. Achmad : Staff of Sub-Directorate of Reforestation.
9. Ir. Zulkifli Mulsani : Field Manager Project ATA-186 at Benakat.
10. Ramelan B.ScF : Staff of Directorate of Forestry Programming, Bogor.
11. Pramono B.Sc : Foreign relation officer.
12. Ir. Sudaryat : Staff of Sub-Directorate of Reforestation.
13. Ir. Anto Rimbawanto : Counterpart of Project ATA-186.
14. Dra. Subiyanti : Staff of Bureau of Foreign Cooperation, Dept. of Agriculture, Jakarta.

From JICA (Japanese Government).

1. Mr. Sugihara : JICA Assistant Resident Representative.
2. Mr. S. Kadoya : Staff of Japanese Embassy.
3. Mr. Ryosuke Kato : Chief of Adviser.
4. Mr. Katsuyuki Ohmi : Expert Team Leader.
5. Mr. Y. Sakamoto : Liaison Officer.

2. Agenda of the meeting.

1. Opening remarks by the chairman
2. Review of the Last Meeting (Second Meeting on October, 30<sup>th</sup> 1980)
3. Progress report of 1980 /1981
4. Discussion on the draft Annual Plan 1981 /1982
5. Discussion on the draft Five-Year Plan
6. Other matters.

3. Opening remarks.

The Chairman opened the Meeting and introduced the attendants one by one, furthermore explaining the purpose of the Third Joint Steering Meeting.

The agenda of the meeting is stated on point 2.

4. Review on the last meeting (October, 30<sup>th</sup> 1980).

The meeting evaluated the conclusion of The Second Meeting on October 30<sup>th</sup> 1980. There were still several matters to be settled, namely :

- a. The JICA Team must prepare a Plan of Seed Requirement, the species and amount to be planted through the whole project which has not yet been completed so far.
- b. The 400.000 seedlings left for last year planting, will not be delivered to The Regional Forest Office. The seedling will be by used the Project itself.
- c. Two drivers will be needed by the Project but only one is available. The Project should find another good mechanic.

5. Discussion of the Progress report 1980 / 1981.

- a. The Meeting observed and approved the progress report of 1980/1981 delivered by the Field Manager, wich appears on Annex I,
- b. The Meeting noted, the realization on planting activities was below the target. This is due to the arrival delay of the equipment on the project site.

- c. The Meeting noted that the road construction exceed the target of 1980 / 1981, which was 31 km insted of 2.1 km.
- d. The Chairman explined that the term Project Director as stated in the Agreement Document should be reverned to as Project Manager. The Position of Project Manager in the central office shall be occupied by Mr. Soedjadi Hartono, and Mrs. Tetti S. Achmad as acting Assistants Manager during Sagala's absence.

6. Discussion on the Annual Plan 1981 / 1982.

- a. The Meeting decided for further improvement of the Annual Plan 1981 / 1982. It should cover nursery requirements, equipments, training programme, construction of dormitory facilities through Japanese Government's aid.
- b. The improved Annual Plan of 1981 / 1982 appears on Annex II.

7. Discussion on the Five - Year Plan.

- a. The Meeting approved the Five Year Plan but with minor adjustment on estimated budget and improvement on the List of equipments.
- b. The Five Year Plan appears on Annex III.

8. Others matters.

- 8.1. The Meeting noted that all Japanese / advisers are obliged to write report or working papers on each specified subject for their 1980 / 1981 activities.
- 8.2. The Meeting noted that the map of Benakat area should be supplemented on each progress report.
- 8.3. The experties of the Japanese expert will be more beneficially used, if seminar or workshop can be organized and conducted either in Jakarta or in Palembang.
- 8.4. The Meeting noted that the Agro-Forestry Activity which will be going on in Benakat area should cover a long term working plan.
- 8.5. The Meeting noted the proposal of Mr. Victor Sinaqa, Regional Forest Officer of South-Sumatera, that the Project should take into consideration the Inpres activity.

- 8.6. The Meeting noted the request made by Mr. Kato, asking for the additional of 5,000,000 rupiah for Forest Ecology activity. The Meeting advised the Japanese Team to contact JICA Office for help, since the budget was proposed in the middle of the financial year and was not available then. Any how the Chairman promised to cover the budget the success is still a question.
- 3.7. Mr. Kato informed the Meeting of the arrival of 6 short - term Experts this year, 2 of whom will arrive next month ( July, 1981 ).
- 8.8. The Meeting noted the request of Mr. Kato for the appointment of one senior official for 3 weeks Comparative Study Tour in Japan. The Chairman advised the Meeting that such study Tours should also cover discussion and seminars.
- 8.9. The next Joint Steering Meeting will be held 6 months from this date preferably in November 1981.

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TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT , SOUTH-SUMATRA

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CONCLUSION OF THE FOURTH  
JOINT STEERING GROUP MEETING.

---

DIRECTORATE GENERAL OF FORESTRY  
DIRECTORATE REFORESTATION AND  
LAND REHABILITATION.





## CONCLUSION OF THE LAST MEETING

(The Fourth Joint Steering Group Meeting , January 5<sup>th</sup> 1982)

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1. The Meeting noted the question asked by Mr. Ryosuke Kato, if there was not other new species in view of the shortages of certain Species and asked the reason for the ever delay of the building completion. He added that JICA has attempted to have the supply of exoot tree Species (Pinus merkusii and Gmelina arborea) and that JICA will aid the establishment of the fence in the nursery. A watch man, however must be available. He also requested an information concerning the intitution which sells forestry seedlings.
2. The Meeting noted the suggestion made by Mr. Pramono, that the list of equipments to be delivered should be submitted earlier to allow time to make aprovision of the budget for the handling cost.
3. The Meeting decided that Mr. Sagala should prepare a list of terms to be used in the project. This implied the used of species trials, introduction trials. The Meeting also noted the suggestion made by Mr. Sagala that the project should take advantage of the availability of the seedling for plantation.
4. The Meeting decided that the Plan of Operation 1982/1983 be refined further based on the progress of operation 1981/1982. The Tentative Plan of Operation appears on Annex no. 6
5. The Meeting noted the question raised by Mr. Ryosuke Kato will be the prospective participants take part in the future

training course. The first priority will be given to the project personnels, the second priority goes to the forestry personnels or supervisors of Regional Forest Service, than the facilities allows it should include also personnels of other regions.

6. The Meeting decided that the facilities in the project was intended to accomodate the need for industrial plantation establishment training.
7. The Meeting agreed to used a standard terminology on the subject of Silviculture, mostly dealing on trials. Introduction trial used by Mr. Kato on his reports referred to species trials used by Mr. Sagala and Mr. Zulkifli.
8. Mr. Ryosuke Kato, chief advisor reported to the Meeting that his successor will arrive in Indonesia middle of February as his assignment will be terminated soon.

The Meeting then allows him to make a final statement for his assignment in Indonesia.





TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT , SOUTH SUMATRA.-

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REPORT OF THE FIFTH JOINT  
STEERING GROUP MEETING  
SEPTEMBER 21<sup>st</sup> , 1982

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DIRECTORATE GENERAL OF FORESTRY  
DIRECTORATE REFORESTATION AND  
LAND REHABILITATION.



Transmittal Letter

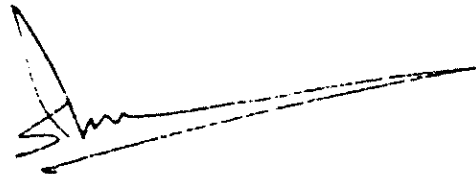
Dear Sir,

We have the honour to transmit herewith the Report of the  
5<sup>th</sup> Joint Steering Group Meeting, which was held in Jakarta,

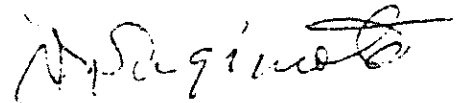
September 21<sup>st</sup>, 1982.

Accept Sirs, the assurance of our highest considerations.

Jakarta, September 29<sup>th</sup> 1982



1. Ir. Soedjadi Hartono



2. Mr. Sadao Sugimoto.





REPORT OF THE FIFTH JOINT STEERING GROUP  
MEETING FOR TRIAL PLANTATION PROJECT AT  
BENAKAT , SOUTH SUMATRA ( ATA - 186 ).

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1. The Fifth Joint Steering Group Meeting was held on September, 2<sup>nd</sup> 1982. The Meeting convened at 10.30 A.M. and was attended by members of the Joint Steering Group. The list of attendance appears on Annex No. 1.

2. Opening remarks

The Meeting was declared opened by the Chairman , Mr. Apandi Mangundikoro, the Director Reforestation and Land Rehabilitation.

After expressing his welcome to the participants of the Meeting, the chairman introduced the participants especially the newly-assigned experts and counterparts i.e. Mr. Sadao Sugimoto as Chief Advisor was the successor of Mr. Ryosuke Kato, and Mr. Dodo S. Maman as Chief of Project P3RPDAS Musi was the successor of Mr. Wazir Nengkeman and Mr. Yadi Haryadi as Agroforestry counterpart respectively.

The Chairman offered a provisional agenda for the Meeting and wished for a amendment. The Meeting agreed the agenda without any alteration. ( It appears on Annex no. 2 ).

3. Reviews of the Fourth Meeting.

The Chairman informed the Meeting of the conclusion, which were brought up and discussed in the last 4<sup>th</sup> Meeting ( Annex no.3).

Most of them have already been in completion without any alterations.

#### 4. Progress Report.

The report was presented by reading the main point of the report previously prepared in writing which appears on Annex no 1

The materials presented includes :

- a. In 1981/1982, Finance has been allocated some Rp. 269.306.000,- further more, to carry out the activities of the year 1982/1983, some Rp. 367.138.340,- has been allocated which comes from two sources. First through DIP 1982/1983 P3RPDAS Musi of Rp. 242.997.000,- and second through INPRES 6/1982 of Rp. 124.141.340.-
- b. Activities and Finance Progress of the 1981/1982, up to August had spend a total of Rp. 203.929.996.12 or 83,16 %. There is some late implementation of the Project activity i.e. some facilities, as to built a mess, labor house, laboratory, and labor house. The appeared problem in to comparing the bid of tender.
- c. Progress of Project activity in 1982/1983, up to August 1982 as mentioned above, Nursery activities 54 %, plantation has finished 19,5 %, road construction 60 %, fire belt 25 % road construction maintenance 27 %, Agroforestry 20 %, facilities 17 %. Further more administration activities has implementation 24 %.

5 Conclusion of The Fifth Joint Steering Group Meeting  
September 21<sup>st</sup> 1982.

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- a. The Meeting noted the question asked by Mr. Kuniaki Kato on the possibility of earlier road construction prior to the establishment of plantation for the next fiscal year. ( 1983/1984 ).

The Meeting also suggested to the Field Manager to speed up the construction of living quarters for personnels.

- b. The Meeting decided that the Field Manager and Co-Manager proposed a plan for fire protection which is part of the important activities in the project. The plan should include organization of the fire management system, equipment to be used. Regarding this Mr. Apandi's suggested to build more lookout towers while Mr. Soedjadi Hartono to take more pools for example.

The Meeting also noted the promise of JICA representative to try to discuss the possibility of obtaining fire trucks for the project to the authority concerned, which is important to support the fire system.

- c. The Meeting noted the suggestion made by Mr. Komar from the Forestry Research Institute, the use of the same species for both manual and mechanized treatments on land preparation,

to obtain a better result.

- d. The Meeting noted the question raised by Mr. Victor Sinaga, Chief of South Sumatra Regional Forest Office, of the possibility to combine both sources of budget ( the DIP and INPRES budget ) for the next fiscal year.

To this question, the chairman clarified the difficulty to combine both budgets for the project since there are shortages of budget in the Sectoral Development project, while there is ample budget in the Inpres.

- e. The Meeting noted the suggestion made by Mr. Yoshimoto on the importance of the pre-evaluation Team to be sent to the project to study the implementation of activities as stated in the Record of Discussion. The Meeting then decided that Plan of Operation of the next fiscal year be based on current activities which is jointly prepared by Indonesian counterpart and Japanese experts. This Plan of Operation will be discussed in the next Joint Steering Group Meeting with regard to the Record of Discussion between the Indonesian Government and the Japanese Government.

- f. The Meeting noted the suggestion made by, Mr. Pramono of the need of the complete list of Equipment prior to the delivery to the port of Palembang and to separate the list of cargos added from original one. Some equipments should be recommended by the Department of Trade first before recommendation by the Secretariat Cabinet can be obtained.

- g. The chairman informed to the Meeting of the coming visit to the-

project by the Minister of Agriculture together with the Ambassador of Japan in the end of November 1982.

The Meeting then decided that the project should prepare for the occasion. The Indonesian side should settle the social aspect and the Japanese side the technical aspect on Agroforestry activity.

- h. The Meeting decided that the next Meeting ( The Sixth Joint Steering Group Meeting ) will be held in January or February 1983.

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## THE LIST OF ATTENDANCE

From the Indonesian Government

1. Mr. Apandi Mangundikoro - Director of Directorate Reforestation and Land Rehabilitation.
2. Mr. Soedjadi Hartono - Project Manager
3. Mr. Victor M. Sinaga - Chief of Regional Forest Office of South Sumatra.
4. Mr. Dodo S. Maman - Project Leader of P3RPDAS Musi, South Sumatra.
5. Mr. Zulkifli Mulsani - Field Manager Project ATA-186 at Benakat.
6. Mr. Pramono - Foreign relation officer.
7. Mr. Momong Imron Rosyadi - Staff of Sub Directorate of Reforestation and Land Rehabilitation.
8. Mr. Wasito Hadi - Staff of Sub Directorate of Plant Material.
9. Mr. Komar Soemarna - Director of Forest Research Institute.
10. Mr. Desman Pardede - Staff of Sub Directorate of Reforestation & Land Rehabilitation.
11. Mr. Yadi Haryanto - Counterpart of Project ATA - 186.
12. Mr. Rismulyadi - Counterpart of Project ATA - 186.
13. Mr. Anto Rimbawanto - Counterpart of Project ATA - 186.
14. Mr. Nyoman Yuliarsana - Counterpart of Project ATA - 186.

From JICA ( Japanese Government ).

1. Mr. Seinosuke Kadoya - Embassy of Japan.
2. Mr. Kiyoshi Yoshimoto - Staff of JICA Office.
3. Mr. Sadao Sugimoto - Chief Advisor for ATA-186
4. Mr. Kuniaki Kato - Expert Team Leader
5. Mr. Hirota Yamate - Expert of Nursery

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Provisional Agenda

THE FIFTH JOINT STEERING GROUP MEETING  
THE TRIAL PLANTATION IN BENAKAT (ATA-186).

September, 21<sup>st</sup>, 1982

- 10.00 : Opening remark
- 10.15 : Reviews of the Fourth Joint Steering Group Meeting.
- 10.45 : Progress Report of the Project.  
: - Project Manager  
: - Field Manager  
: S l i d e  
: Discussion
- 12.15 : Other Matters  
: Discussion
- 13.00 : Conclusion of the meeting and closing.
- 13.15 : L u n c h .

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TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT, SOUTH SUMATRA  
ATA - 186.

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THE CONCLUSION OF THE .  
FIFTH JOINT STEERING GROUP MEETING  
SEPTEMBER 21<sup>th</sup> , 1982

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DIRECTORATE GENERAL OF FORESTRY  
DIPECTORATE REFORESTATION AND LAND  
REHABILITATION.



Conclusion of The Fifth Joint Steering Group Meeting

Maret , 1983

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1. The Meeting noted the question asked by Mr. Kuniaki Kato on the possibility of earlier road construction prior to the establishment of plantation for the next fiscal year. ( 1983/1984 )  
The Meeting also suggested to the Field Manager to speed up the construction of living quarters for personnels.
2. The Meeting decided that the Field Manager and Co-Manager proposed a plan for fire protection which is part of the important activities in the project. The plan should include organization of the fire management system, equipment to be used. Regarding this Mr. Apandi's suggested to buil more lookout tours while Mr. Soedjadi Hartono to take more pools for example.  
The Meeting also noted the promise of JICA representative to try to discuss the possibility of obtaining fire trucks for the project to the outhority concerned, which is important to support the fire system.
3. The Meeting noted the suggestion made by Mr. Komar from the Forestry Research Institute, the use of the same species for both manual and mechanized treatments on land preparation to obtain a better result.
4. The Meeting noted the question raised by Mr. Victor Sinaga, Chief of South Sumatra Regional Office, of the possibility to combine both

sources of budget ( the DIP and INPRES budget ) for the next fiscal year.

To this question, the chairman clarified the difficulty to combine both budgets for the project since there are shortages of budget in the Sectoral Development project, while there is ample budget in the Inpres.

5. The Meeting noted the suggestion made by Mr. Yoshimoto on the importance of the pre-evaluation Team to be sent to the project to study the implementation of activities as stated in the Record of Discussion. The Meeting then decided that the Plan of Operation of the next fiscal year be based on current activities which is jointly prepared by Indonesian counterpart and Japanese experts. This plan of Operation will be discussed in the next joint Steering Group Meeting with regard to the Record of Discussion between the Indonesian Government and the Japanese Government.
6. The Meeting noted the suggestion made by Mr. Pramono of the need of the complete list of equipment prior to the delivery to the port of Palembang and to separate the list of cargos added from original one. Some equipments should be recommendation by the Secretariat Cabinet can be obtained.
7. The Chairman informed to the Meeting of the coming visit to the project by the Minister of Agriculture together with the Ambassador of Japan in the end of November 1982.

The Meeting then decided that the project should prepare for the occasion. The Indonesian side should settle the social aspect and the Japanese side the technical aspect to Agroforestry activity.

8. The Meeting decided that the next Meeting ( The Sixth Joint Steering Group Meeting ) will be held in January or February 1983.





TECHNICAL COOPERATION FOR  
THE TRIAL PLANTATION PROJECT  
BENAKAT, SOUTH SUMATRA  
ATA - 186.

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REPORT OF THE SIXTH JOINT  
STEERING GROUP MEETING  
MARCH, 14<sup>st</sup> 1983

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DIRECTORATE GENERAL OF FORESTRY  
DIRECTORATE OF REFORESTATION AND LAND  
REHABILITATION.



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  - II. A PROVISIONAL AGENDA
  - III. CONCLUSION OF THE LAST MEETING
  - IV. OPERATIONAL PROGRESS REPORT  
( UP TO FEBRUARY 28<sup>th</sup>, 1983 ).
  - V. TECHNICAL REPORT
-



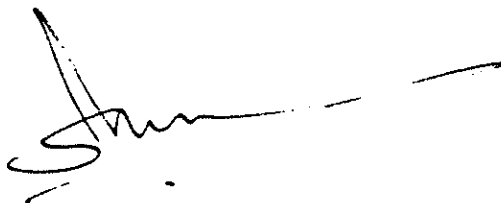
## TRANSMITTAL LETTER

Dear Sirs,

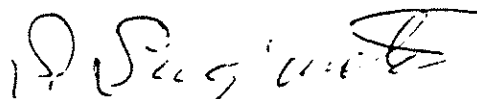
We have the honour to transmit herewith the Report of the 6<sup>th</sup> Joint Steering Group Meeting, which was held at Jakarta , March 14<sup>th</sup> , 1983.

Accept Sirs, the assurance of our heighest consideration.

Jakarta , March 20<sup>st</sup> , 1983



Ir. Soedjadi Hartono



. Sadao Sugimoto



REPORT OF THE SIXTH JOINT STEERING GROUP MEETING FOR TRIAL  
PLANTATION PROJECT AT BENAKAT, SOUTH SUMATRA (ATA-186)

1. The Sixth Joint Steering Group Meeting was held on March 14<sup>th</sup> 1983. The Meeting commenced at 10.00 A.M, and was attended by members of the Joint Steering Group. The list of attendance is on Annex No. I

2. Opening remark

The Meeting was declared opened by the Chairman, Mr. Soedjadi Hartono, Chief of the Sub Directorate of Reforestation as Project Manager ATA-186 at Benakat.

After expressing his welcome to the participants of the Meeting, the Chairman introduced the participants of the Meeting especially the newly - assigned expert i.e. Mr. Masaharu Tabata as expert on Forest Protection.

The Chairman offered a provisional agenda for the Meeting and wished for an amendment. The Meeting agreed the agenda without any alteration. (It appears on Annex No. II).

3. Review of the Fifth Meeting

The Chairman reviewed the Conclusions of the Meeting which were brought up and discussed at the last (5<sup>th</sup>) Meeting. (Annex No. III).

4. Progress Report

The report was presented by reading the main points of the report previously prepared in writing which appears on Annex No. IV.

The materials includes :

a. In the fiscal year of 1982/1983, the budget has been allocated to the project which amounted to Rp. 367,183,340.-. The budget come from two sources, first through Inpres 6/1982 which amounted to Rp 124,141,340.- and second through DIP 1982/1983 at a total amount of Rp 242,997,000.-.

b. The financial progress of the fiscal year of 1982/1983, up to

February 1983 has reached a total of amount of Rp. 240,089,101.64 or 89.15%.

- c. The progress of the Project Activity in the fiscal year 1982/1983 through Inpres No. 6/1982, up to February 1983 are as follows :  
Nursery activities 100 %, Plantation 68.25 %, Road construction 100 %, Fire protection 30 %.

While the progress of activities through DIP, up to February 1983 are as follows : Observation and evaluation in Nursery, Plantation and Forest protection has reached 27.50 %, Forest road maintenance 80 %, Study of ecology 75 %, Agroforestry 80 %, Construction of facilities 36 %, Administration 72.5 %.

#### 5. Technical Report

This technical report is meant to give a short review on the achievement of the project activities up to now, among others are trials on plant species, technical and management of the reforestation. The report appears on Annex No. V.

#### 6. Conclusions of the Sixth Joint Steering Group Meeting, March 14<sup>th</sup> 1983.

- a. The Meeting noted the suggestions from Mr. Ohta and Mr. APS Sa-gala concerning the project's offer of Rp 50,000.- per Ha to the farmers for the purchase of seeds. That expenditure can be attained from the soil preparation cost, where the soil preparation is sufficiently conducted only with ploughing I and harrowing I, while ploughing II and harrowing II, the cost of which can be handed over to the farmers.

The Chairman as Project Manager responded to the suggestion that the Field Manager should consider the possibility from the aspect of current administration.

- b. The Meeting noted the argument of Mr. Ohta concerning the necessity to accomplish a study to indentify the desire and demand of the farmers in the Tangya sistem (Agroforestry).



For the purpose of extension to the farmers, the project is recommended to employ PLP.

Furtherly Mr. Ohta reported about the damage by wild animals on Agroforestry site plants, and suggest to permit the hunter to hunt those animals (wild boars).

- c. The Meeting noted the question of Mr. Budi Hartoyo, concerning the influence of various plant - spaces on cogon grass growth.

The Chairman of the session as Project Manager, to that question, instructed the Field Manager to accomplish research for the identification of cogon grass growth at various plant - spaces.

- d. The Meeting noted that argument of Mr. Komar Sumarna, proving that red brick - lines suit temporary preparation for nursery beds. According to Mr. Kunaiki Kato, however this type of beds takes higher expense, he suggested therefore, the use of wooden beds which prove to be cheaper and sufficiently good in quality.
- e. The Meeting noted the proposal of Mr. Pramono Bs.C, concerning nursery shading material made of Japan, and recommended the use of local material of the same function on large scale reforestation.
- f. The Meeting noted the response of Mr. Ohta to the report of Mr. APS. Sagala, concerning the less satisfying growth of pines and eucalyptus, clarifying that the pines appear in better success this year following the control efforts over the diseases and the use of micoryza.
- g. The Meeting noted the opinion of Mr. Hachinohe, concerning land preparation, i.e. secondary forest land requires land clearing, meanwhile cogon grass land needs only burning.
- h. The Meeting noted the idea of Mr. Kuniaki Kato, suggesting planting realization in rain season for satisfying result.
- i. The Meeting noted the opinion of Mr. Marzuki stating the great importance of the project attention on the achievement of technological transfer from Japanese to Indonesia, in addition to intimate relation between Japan and Indonesia. The Chairman of the Meeting, as

Project Manager, reported that the technological transfer has been conducted to the counterparts, besides that foresters of forestry Agencies are visiting Benakat for comparative study and so forth.

- j. The Meeting noted the information of Mr. Dodo, that there will be held at Benakat the training of 96 workers PLP/PLR of Bengkulu and Lampung Forestry Service in the near future.
- k. The Meeting noted the opinion of Mr. Ohta concerning the Tangya System's of the possibility endangering for the main plants as the farmers will only think of their crops.

The Chairman of the session responded that the danger has been taken into account, i.e. permitting the farmers to plants some kind of cash crops, but not more than 20 % in order not to endanger the main plants.

- l. The Meeting noted the wish of Mr. Kato that the JICA Agency would be able to obtain an office room in Palembang regional forestry office. Both Ir. Dodo and Ir. Wazir Nengkeman responded they would make arrangement.
- m. The Session determined that the next Meeting (The Seventh Joint Steering Group Meeting) is to be held in September 1983 at Jakarta.
- n. The Chairman announced the coming ANZAP Workshop is to be held in October 1983 at Jakarta, a visit of the Workshop participants to Benakat for 3 days is scheduled.

## THE LIST OF ATTENDANCE

From the Indonesian Government

1. Mr. Soedjadi Hartono - Project Manager of Project ATA-186  
( Chairman )
2. Mr. Marzuki - Directorate of Forestry Programming.
3. Mr. Ari Soedarsono - Secretariate of Directorate General  
of Forestry.
4. Mr. Wazir Nengkenan - Regional Forest Office of Sumatra.
5. Mr. Dodo. S. Maman - Project Leader of P3RPDAS Musi, South  
Sumatra.
6. Mr. APS. Sagala - Assistant Project Manager,
7. Mr. Zulkifli Mulsani - Field Manager Project ATA-186 at Bena-  
kat.
8. Mr. Pramono - Foreign relation officer
9. Mr. Parmanto - Staf of Sub Directorate of Watershed  
Management.
10. Mr. Budi Hartoyo - Staf of Sub Directorate of Plant Mate-  
rial.
11. Mr. Komar Soemarna - Chief of Forest Research Centre.
12. Mr. Desman Pardede - Staf of Sub Directorate of Reforestatio  
n.
13. Mr. Wilman Kamil - Staf of Sub Directorate of Reforestatio  
n.
14. Mr. Rismulyadi - Counterpart of Project ATA-186
15. Mr. Anto Rimbawanto - Counterpart of Project ATA-186
16. Mr. Tata Wiharta - Counterpart of Project ATA-186.

From Japanese Government (JICA)

1. Mr. Seinosuke Kadoya - Embassy of Japan
2. Mr. Kuniaki Kato - Expert of Team Leader
3. Mr. Sadao Sugimoto - Chief Advisor
4. Mr. Hideki Hachinohe - Liaison Officer
5. Mr. Seiichi Ohta - Expert of Forest Ecology
6. Mr. Masaharu Tabata - Expert of Forest Protection

PROVOSIONAL AGENDA

THE SIXTH JOINT STEERING GROUP MEETING  
THE TRIAL PLANTATION IN BENAKAT (ATA-186) .-

MARCH , 14<sup>th</sup> , 1983

- 10.00 : Opening remark
- 10.15 : Reviews of the Fifth Joint Steering Group Meeting
- 10.45 : Progress Report of the Project
  - : - Project Manager
  - : - Field Manager
  - : Technical Report & Slide
  - : - Co Project Manager
- 12.15 : Discussion
  - : Other Matters
- 13.00 : Conclusion of the meeting and closing
- 13.15 : L u n c h.

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

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THE CONCLUSIONS THE  
LAST SIXTH JOINT STEERING  
GROUP MEETING

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MINISTRY OF FORESTRY  
DIRECTORATE GENERAL OF REFORESTATION AND LAND REHABILITATION  
DIRECTORATE OF REFORESTATION  
APRIL, 1984.



Conclusion of the last Sixth Joint Steering Group Meeting  
and its implementation.

No.	Conclusion of the meeting	Implementation
1.	The participants of agroforestry need financial support for buying cash crops seeds. If it is allowed the project shall give Rp 50,000.- taken from the cost of second plowing and second harrowing.	1. Administrative procedures does not allow such kind of modification. However the project has gave a loan at the amount and shall be returned when the farmers harvest the crops.
2.	Social study on the farmers attitude to participate in the agroforestry project.	2. The interim report shows that the farmers are intend to joint the project. But they ask the project to provide another job for their additional income.
3.	Wild-pig has become very destructive in the agroforestry project, particularly for cash crops.	3. Several measures have been taken such as hunting, trapping, and poisoning. So far those methods can reduce the damage.
4.	To examine the effect of spacing to the growth of alang-alang.	4. On going study.
5.	To test 2 kinds of nursery bed viz. red brid and wooden bed.	5. Wooden bed is cheaper but relatively good quality.
6.	To study the possibility of using local material for shedding instead of Japanese kondense.	6. On going study.
7.	Land clearing for secondary forest and alang-alang area need to be examine.	7. Fire system in alang-alang area is not recommended, because of the following reason : - Air pollution. - Difficulties to control fire.

No. Conclusion of the meeting	Implementation
8. Planting activity should be done in the rainy season so as to get high survival rate.	<ul style="list-style-type: none"> <li>- Destroying organic matter.</li> <li>- Negative example for surrounding people.</li> </ul> <p>8. Some obstacle were found to follow the planting, such as delay of budget disbursement, approval of operational plan.</p>
9. Promoting the implementation of technology transfer for expert to counterparts.	9. Being carried out.
10. Providing a room for project representative office in Palembang.	10. Provincial Forest Service has provided a room in Palembang office.
11. Study tour of ANZAP Workshop participants in October 1985.	11. Successfully organized.





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

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REPORT OF THE SEVENTH  
JOINT STEERING GROUP MEETING  
APRIL 23, 1984

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MINISTRY OF FORESTRY  
DIRECTORATE GENERAL OF REFORESTATION AND LAND REHABILITATION  
DIRECTORATE OF REFORESTATION  
1984.

## TRANSMITTAL LETTER

Dear Sirs,

We have the honour to transmit herewith the Report of the 7<sup>th</sup> Joint Steering Group Meeting, which was held in Jakarta April 23<sup>rd</sup>, 1984.

We hope this report will be useful information for reforestation activities any where.

Accept Sirs, the assurance of our heighest consideration.

Jakarta, April           , 1984.

*Victor M. Sinaga*

Victor M. Sinaga  
Director of Reforestation

*Ginjiri Okabe*

Ginjiri Okabe  
Chief Advisor.

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V. TECHNICAL REPORT	
VI. ADDENDUM RECORD OF DISCUSSION	
VII. 2 YEARS PLAN OF OPERATION	
VIII. 1 YEARS PLAN OF OPERATION	

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REPORT OF THE SEVENTH JOINT STEERING GROUP  
MEETING FOR TRIAL PLANTATION PROJECT AT  
BENAKAT, SOUTH SUMATERA (ATA-186)

1. The Seventh Joint Steering Group Meeting was held on April 23<sup>rd</sup> 1984. The meeting commenced at 10.00 A.M., and was attended by members of the Joint Steering Group. The list of attendance is on Annex No. I.

The 7<sup>th</sup> meeting is important because it is finished with the termination of the 5 years cooperation period which expire in March 1984, the objectives are to evaluate project activities in 1983/1984, and to prepare the 2 years plan of operation and annual plan of operation 1984/1985 for the extension of the technical cooperation of the 2 years period.

2. Opening remark

The meeting was declared open by the Chairman Mr. Wartono Kadri, Director General of Reforestation and Land Rehabilitation, and take over next program to the Acting Chairman Mr. Victor M. Sinaga, Director of Reforestation.

After expressing his welcome to the participants of the Meeting, the Chairman introduced the participants of the Meeting from Indonesia side and especially the newly-assigned expert for the Project i.e. Mr. Hiroji Okabe as Chief Advisor.

The Chairman offered a provisional agenda without any alteration (It appears on Annex No. II).

3. Review of the sixth Meeting.

The Chairman reviewed the conclusions of the Meeting which were brought up discussed at the last (6<sup>th</sup>) Meeting, and its implementation during the fiscal year of 1984/1985 (Annex III).

4. Note of Director General of Reforestation and Land Rehabilitation for extension period of the Project.

a. The development of Benakat Project.

In the future Benakat project will be developed as Balai Teknologi Reboisasi (Reforestation Development Centre). The Balai is aimed to be a center of reforestation techniques. It is hoped that all kinds of techniques of reforestation should be tested as well, in order to get a reasonable data of the best techniques of reforestation especially in grassland areas.

b. Wild pig problem.

In accordance to the plan of Directorate General of Forest Protection and Natural Conservation to designate 130 units of hunting area, so it is hoped that one of them may be located in South Sumatera. It is suggested that the Project will propose and arrange all preparation regarding the hunting game.

c. Alang-alang problem.

It is suggested to introduce a new reforestation technique, i.e. chemical method in the project. The project will be hoped to conduct a comparative study regarding the chemical system and mechanized system in order to know what is the best among others.

d. Agroforestry.

It is suggested to undergo system of Agroforestry by using Inpres Budget.

e. Forest fire control.

Besides it conducted 5 (five) methods of fire control in Project, it is suggested to control fire by using 3 methods are as follows :

- Naturally control
- Establishment at forest line.
- Establishment of fire line.

f. Nursery.

It is recommended that the introduce a new technology of raising up the seedlings. Besides it also stated that Benakat Project and Finland Project in South Kalimantan will be designated as the Seedling Center.

5. Progres Report

The report was represented by reading the main points of the report previously prepared in writing which appears on Annex No. IV.

The brief report materials as follow :

- a. In the fiscal year of 1985/1984, that budget has been allocated to the project which amounted to Rp 579.219, 000.-
- The budget come from two sources, first through Inpres 1985/1984 which amounted to Rp 185,728,000.- and second through DIP 1985/1984 at a total amount of Rp 105,941,000.-

- b. The financial progress of the fiscal year of 1983/1984, up to March 1984 has reached a total of amount of Rp 145,216.- or 75 %.
- c. The progress of the Project Activity in the fiscal year 1983/1984 through Inpres No. 6/1982, up to March 1984 are as follows:  
Nursery activities 99 %, Plantation 85,6%, Road construction 56 %, Construction of labour house 40 %, working house 40 %.

#### 6. Technical Report

This technical report is meant to give a short review on the achievement of the project activities up to now, among others are trials on land preparation and planting techniques, agro-forestry and nursery. The report appears on Annex No. V.

#### 7. Conclusions of the Seventh Joint Steering Group Meeting April 23<sup>rd</sup>, 1985.

Five years Operational (1979 - 1984).

- a. The Acting chairman informed the meeting that concerning to the Project implementation schedule which has been finished on March 1984, but there are some activities such as construction of labour house, ware house are only 60 % completed. Moreover, there are still remain 150 ha of plantation area which hasn't completed yet. Based on the above subject, Mr. Acting Chairman asked the Field Manager, whether the remain activities will be able to finish this year especially plantation, if not what is the problem. Field Manager explained



that planting worked for fiscal year 1983/1984 have postponed because Inpres budget has just disbursed on November 1984, but planting season (rainy season) this year remain just 1 month (until Mei 1984). According to nursery works in 1983/1984, Mrs. Retno Sekarsari reported to the meeting that all seedlings target has already finished 100 %.

- b. The Acting chairman concluded there is no problem on raising up the seedling technically in Nursery and Plantation, but the problem is procedure of disturbance of the budget. Besides it, in order to solve the delay of the land preparation, it is agreed to postpone the planting of 100 Ha remain area up to next rainy season.

The road construction have been finished and labour house will be finished within 5 months.

- c. The meeting noted a question of Mr. Acting Chairman to the Field Manager and Japanese experts about the output of the 5 (five) years implementation project, such as technical report by experts and counterparts. In order to make Final Project Report, Mr. Triogo Sukanto and Mr. Zulkifly Mulsani answered that Final Report of 5 years Project implementation will be prepared by Project Manager, it is based on experts and counterparts reports. The Acting Chairman hope, it will be finished on June as scheduled.

Plan of Operation (2 years and annual).

- d. The meeting noted a comment by Mr. Hendremono regarding the pattern of research activities. In this context, Mr. Sagala

explained concerning the background of the project. The project is aimed to find out a suitable species in South Sumatera, techniques of planting and management of large scale industrial plantation. Mr. Acting Chairman commented that the Forest Research and Development Centre always involved in giving guidance above the pattern of research within the extension of the Project.

- e. The meeting noted a suggestion by Mr. Suharyanto the Project to recommend a suitable machineries and equipment for the tropical country, for this suggestion Mr. Zulkifly Mulsani as former Field Manager explained that it was already conducted last time, and some equipment of plantation can be recommended.
- f. The Meeting noted argument of Mr. Acting Chairman and Mr. Yoshimoto about plan of operation for fiscal year 1984/1985 it was already cover with Inpres Budget for that year. Mr. Zulkifly explained some research and training activities are not included in the budget yet, but it can possibly to revised the budget and some budget can get from remaining budget of Fiscal year 1982/1985 (SIAP). In this case Mr. Acting Chairman explained that some budget especially for training programme in the Project could come from Private Company, because some private company staffs can follow training programme in reforestation techniques which can be held in Project.
- Besides, Mr. Acting Chairman recommend that IWPL Budget possibly can be used for facilities and to pay some training activities and in connecting to the IWPL Budget, Mr. Acting Chairman instructed to the Project Manager to consult that matter to Directorate General of Forest Utilization.

- g. The Meeting noted Mr. Yoshimoto anxious that budget for the Project come from 2 (two) sources i.e. INPRES Budget and DIP Budget, and especially INPRES budget have a disbursement problem, so many activities almost in the last 5 (three) years implementation Project always to be postponed. According to delay budget disbursement, Mr. Acting Chairman hoped this fiscal year 1984/1985 make effort how to do more smoothly the disbursement procedure, so it will be realized on July and August 1984.
- h. The meeting noted suggestion by Mr. Acting Chairman that the Project for this fiscal year is to implement trial Two Stories Stand Plantation, combination between fast growing species with slow growing species. In this connection Mr. Okabe agreed but Indonesian side it must take any effort to prepare about financing. Mr. Sumarsono inform the meeting, it is possible that this activity will be realized with budget for it, arranged by Sumatera Selatan Regional Forest.
- i. Mr. Acting Chairman and Mr. Tadao Chara agree Project can implement Species Trial included some species from some region. Mr. Zulkifli inform the meeting, it is difficult to get ready seeds for some species, so it must to concerned in related to choose any species for Species Trial.
- j. Mr. Acting Chairman ask to Directorate Regreening and Arrable Land to participate in Agroforestry activities. Mr. Dibyo Sartono explained, but he suggested to make Agroforestry in some different site condition. Mr. Acting Chairman inform the meeting that for next 2 years,

Agroforestry programme to be involved to Directorate  
Regreening and Arable Land.

- k. The Meeting noted information by Mr. Yamamura that some equipment for project will be bought in Indonesia as many as possible if it is available.
  - l. The Meeting noted information by Mr. Yoshimoto that JICA Programming Team for extension project will come to Indonesia on May 10, 1984, and suggest to the Project Manager to arrange the schedule.
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## THE LIST OF ATTENDANCE

From the Indonesian Government

1. Mr. Wartono Kadri - Director General of Reforestation and Land Rehabilitation (Chairman)
2. Mr. Victor M Sinaga - Director of Reforestation (Acting Chairman).
3. Mr. Soedjadi Hartono - Director of Forest Recreation and National Park
4. Mr. Sumarsono - Chief of South Sumatra Regional Forest
5. Mr. Dibjo Sartono - Staff of Directorate of Regreening and Arable.
6. Mr. Saptana PH. - Staff of Directorate of Reforestation.
7. Mr. Herman Appipudin - Staff of Directorate of Reforestation.
8. Mrs. Tetty S. Achmad - Staff of Directorate of Reforestation.
9. Mr. APS Sagala - Staff of Directorate of Reforestation.
10. Mr. Pramono - Staff of Directorate of Programming
11. Mr. Suparmo - Staff of Planning Bureau
12. Mr. Suhariyanto - Staff of Directorate of Land Konser-  
vation.
13. Mr. Hendromono - Staff of Research and Development  
Centre.
14. Mr. Achmad Badruddin - Staff of Education and Training  
Centre.
15. Mr. Teguh - Staff of Planning Bureau
16. Mr. Dodo S. Maman - Project Manager P3RPDAS Masi South  
Sumatra.
17. Mr. Zulkifli Mulsani - Staff of Directorate of Reforesta-  
tion.
18. Mr. Triogo Sukanto - Field Manager of Trial Plantation  
Project in Benakat (ATA-186)
19. Mr. Nyoman Yuliarsana - Staff of Directorate of Reforesta-  
tion

- 20. Mr. Desman Pardede - Staf of Directorate of Reforestation.
- 21. Mrs. Retno Sekarsari - Counterpart of Nursery Trial Plantation Project in Benakat (ATA-186).
- 22. Mr. Sutomo - Counterpart of Silviculture Trial Plantation Project in Benakat (ATA-186).
- 23. Mr. Bambang Sunadi - Staff of Directorate of Reforestation.

From Japanese Government (JICA)

- 1. Mr. Hiroshi Yamamura - Resident of Representative JICA Jakarta
- 2. Mr. Sei nosuke Kadoya - Staff of Japan Embassy
- 3. Mr. Hiroji Okabe - Chief Advisor Trial Plantation Project in Benakat (ATA-186)
- 4. Mr. Tsuyoshi Ikeda - Expert of . . . Protection
- 5. Mr. Tadao Chara - Expert of Silviculture.
- 6. Mr. Kiyoshi Yoshimoto - Staff of Representative JICA Jakarta.

A PROVISIONAL AGENDATHE SEVENTH JOINT STEERING GROUP MEETING  
TRIAL PLANTATION IN BENAKAT (ATA - 186)

Monday, April 23, 1984

- 10.00 - 10.15 - Opening Director General of R.R.L.
- 10.15 - 10.30 - Member J.S.G. introduction (Director of Reforestation)
- 10.30 - 10.40 - Review to 6<sup>th</sup> Joint Steering Group Meeting  
(Director of Reforestation)
- 10.40 - 10.50 - Recommendation of Japan - Indonesia Joint evaluation  
(Director of Reforestation)
- 10.50 - 11.20 - Progress report up to March 1984  
(Field Manager T.P. Project)
- 11.20 - 11.40 - Technical report/slide  
(Plantation Counterpart).
- 11.40 - 12.10 - 2 year operational work plan (1984-1986)  
(Mr. Zulkifli Mulsani)
- Annual Operational (work plan) (1984/1985)  
(Mr. Zulkifli Mulsani)
- 12.10 - 13.10 - Discussion (Director of Reforestation)
- 13.10 - 13.25 - Conclusion of the Meeting  
(Director of Reforestation).
- 13.25 - 13.55 - Closing/Lunch  
(Director of Reforestation).

TECHNICAL COOPERATION  
THE TRIAL PLANTATION PROJECT  
IN BERAHAT, SOUTH SUMATRA  
( ATN - 186 )

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THE CONCLUSION OF THE  
SEVENTH, JOINT STEERING  
GROUP MEETING

MINISTRY OF FORESTRY  
DIRECTORATE GENERAL OF REFORESTATION AND LAND REHABILITATION  
DIRECTORATE OF REFORESTATION  
MAY, 1985



Conclusion of the last JOINT STEERING GROUP MEETING ( 7<sup>th</sup> ) and its  
Implementation:

No.	Conclusion of the meeting	Implementation
1.	Cause with delay of disbursement of Inpres Budget, land preparation of plantation activity has not yet completed. Meeting agreed to postpone the planting of 100ha remain area up to next rainy season.	Based on the Project Crash Program 50 ha of the total remain area has been planted in the end of fiscal year (1985/1984), while the remain area of 50 ha has also been planted in the end of February 1985.
2.	Acting Chairman ask Field Manager and Experts about the output of 5 year project implementation. Field Manager and Mr. Zulkifli answered, that the report will be prepared and distributed by Project Manager.	Report of the 5 year project implementation has been finished and will be distributed as soon as possible.
3.	The meeting noted Mr. Yoshimoto anxious that budget for the project comes from two sources i.e. Inpres budget and MIP budget. Especially for Inpres budget, there was a disbursement problem, so, many activities almost for the last three years implementation project had always to be postponed. Mr. Acting Chairman hoped that in this fiscal year 1984/1985 to make effort about how to do more smoothly the disbursement procedure, so it will be realized on July and August 1984.	Director of South Sumatra Regional Forest Office had borrowed money (fund) to help the Field Manager prior to disbursement of the Inpres budget. (25 juta) According to information from the Directorate of Programming, D.C. of Reforestation and Land Rehabilitation, the 1985/1986 Inpres budget will be submitted to the Governor in April 1985.

4. The meeting noted suggestion by Mr. Acting Chairman that the Project for this fiscal year is to implement trial of two storied Forest Plantation, combination between fast-growing species with slow-growing species. In this connection Mr. Okabe agreed but Indonesian side must take any effort to prepare about financing. Mr. Sumarsono informed the meeting, it is possible that this activity will be realized with budget for it, arranged by Sumatera Selatan Regional Forest Office.
- The implementation of this activity will be held by DIP Budget (1985/1986) valuing Rp 2,195,000.
5. The meeting noted information by Mr. Yamamura that some equipments for the Project will be bought in Indonesia as many as possible if it is available.
- Some equipments have been bought in Indonesia i.e. two trucks, two Toyota Jeep hard-top, two Toyota Jeep vinytop
6. The meeting noted information by Mr. Yoshimoto that JICA Consultation Team for Project extension will come to Indonesia on May 16, 1984 and suggest to the project Manager to arrange the schedule.
- Minutes of Understanding had been signed on May 28, 1984 by Director of Reforestation and Japan Project Consultation Team Leader concerning implementation of Project for extension period 1984 - 1986.

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

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**REPORT OF THE EIGHTH  
JOINT STEERING GROUP MEETING  
MARCH 19, 1985**

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MINISTRY OF FORESTRY  
DIRECTORATE GENERAL OF REFORESTATION AND LAND REHABILITATION  
DIRECTORATE OF REFORESTATION

1985

TRANSMITTAL LETTER

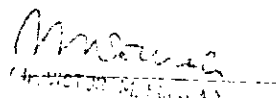
Dear Sir,

We have the honour to transmit herewith the Report of the Eighth Joint Steering Group Meeting, which was held in Jakarta, March 19, 1985.

We hope this report will be a useful information for reforestation activities anywhere.

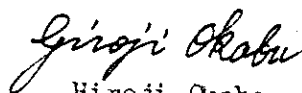
Accept Sir, the assurance of our highest consideration.

Jakarta, April , 1985



Victor M. Sinaga

Director of Reforestation



Hiroji Okabe  
Chief Advisor

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TRANSMITTAL LETTER

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  - III. CONCLUSION OF THE SEVENTH JOINT STEERING GROUP MEETING
  - IV. PLANS OF OPERATION 1985/1986.
  - V. PROGRESS REPORT (UP TO FEBRUARY 1985)
  - VI. TECHNICAL REPORT
-

REPORT OF THE EIGHTH JOINT STEERING GROUP MEETING  
FOR TRIAL PLANTATION PROJECT BERAKAT SOUTH SUMATERA  
( ATA - 186 )

1. The Eighth Joint Steering Group Meeting was held on March 19, 1985. The meeting was commenced at 10.00 AM, attended by members of the Joint Steering Group, Staff of Japanese Embassy and staff of Ministry of Forestry. The list of attendance is shown on Annex No. 1. The objective of the meeting is to evaluate project activities in 1984/1985 fiscal year, and to discuss plan of operation for 1985/1986 fiscal year, the last period of 2 years extension period of technical cooperation.

2. Opening remark.

The meeting was declared open by the Chairman Mr. Wartono Kauri, Director General of Reforestation and Land Rehabilitation and take over the program to the Acting Chairman Mr. Victor M. Sinaga. The Chairman offered provisional agenda without alteration (it appears on Annex No. 2).

3. Review to the Seventh Meeting.

The Chairman reviewed the conclusions of the Meeting which were brought up discussed at the last 7<sup>th</sup> Meeting, and its implementation during fiscal year of 1984/1985 ( Annex III ).

4. Progress Report.

The report was presented by the Field Manager of Trial Plantation Project. The brief report material are as follow :

- a. In 1984/1985 fiscal year, budget has been allocated to the Project, amounted to some Rp. 310,676,000 which is Rp. 195,127,000 came from DIP budget and Rp. 115,549,000 from INPRES budget.
- b. Financial expenditure progress of 1984/1985 fiscal year up to February, 1985 has reached of some Rp. 134,266,000 or 68.8 %.
- c. The Progress of Project activity through INPRES No. 6, 1984 up to February, 1985 are as follow : Nursery establishment 100 %.

Plantation 45 % ; construction of forest road 60 % ; construction of labour house 100%.

5. Technical Report.

This report is meant to give a short review on the achievement of project activities up to this time, among others are trials on land preparation and planting techniques, agroforestry, and nursery.

The report appears on Annex No. V.

6. Conclusions of the Eighth Joint Steering Group Meeting March 19, 1985.

1. In connection to the trial on herbicides application, the meeting suggested to the Project to examine exactly how far the effect of herbicide on along-alang regrowth ( in suppressing along-alang) is, as well as to trees.
2. The meeting noted that the objective of Agroforestry project is to increase farmers income participating in the project.
- ✓ 3. Due to the coming budget, to be allocated in by JICA has not determined yet, the meeting requested JICA to inform forementioned budget promptly and prices of all equipments request by the Project, Besides, JICA Jakarta Office will do their best to get appropriate budget for equipments.  
(Note : Based on final discussion the value of equipment to be granted is as much as ¥ 50,000,000).
4. The Meeting noted that the determination of Japanese short term experts, appropriate equipments as well as budget will be discussed later on.
- ✓ 5. The meeting noted that Bee-keeping program in the framework of Agroforestry activity will be implemented after recognizing its suitable condition. The Directorate of Regreening and Land Arable Control will assist the success of the program.
- ✓ 6. The meeting noted that land preparation and plantation will be finished on May or June, 1985 (for the budget of 1985 / 1984).

7. The Acting Chairman requested that the current Progress Report be amended by enclosing list of existing equipment in the Project covering both grant aided equipment and current realization of Japanese contribution (Fuels, experts, etc.).
8. For overcoming the attack of hyalipylla robusta pest on young Mahogany plantation, the meeting requested the Project to take into consideration for inviting entomologists from Forest Research and Development Agency or to establish mix forest plantation in the next time.
9. The meeting noted that it is necessary to conduct on the job training in the field of machinery operation, particularly for Project personnels which is obliged to start in April 1985.
10. In order to achieve a more beneficial result of the Project, the Acting Chairman obliged counterparts and experts to make their own job report periodically. This should commence from April 1985.



I. THE LIST OF ATTENDANCE

From the Indonesian Government

1. Mr. Wartono Kadri - Director General of Reforestation and Land Rehabilitation (Chairman).
2. Mr. Victor M. Sinaga - Director of Reforestation (Acting Chairman)
3. Mr. Saptana PH. - Staff of Directorate of Reforestation.
4. Mr. Sumarsono H. - Chief of South Sumatra Regional Forest Office.
5. Mr. Kartiko - Staff of Directorate of Reforestation.
6. Mr. Dibjo Sartono - Staff of Directorate of Regreening and Arable.
7. Mr. Kardi Sabarudin - Chief of South Sumatra Reforestation Technology Development Center.
8. Mr. Zihismal - Chief of the third Region of Land Rehabilitation and Soil Conservation Center.
9. Mr. Dayanto Indro Utomo - Staff of Seed Technology Center.
10. Mr. Desman Pardede - Staff of Directorate of Programming.
11. Mr. Suparmo - Staff of Planning Bureau.
12. Mr. Suhariyanto - Staff of Directorate of Soil Conservation.
13. Mr. Iwi Iyos S. - Staff of Forestry Education and Training Centre.
14. Mr. Widji Santoso - Staff of Planning Bureau.
15. Mr. Mudatir Iskandar - Project Manager P3RPDAS Musi South Sumatera.
16. Mr. Zulkifli Mulsani - Staff of Directorate of Reforestation.

- 17. Mr., Triyogo Sukanto - Field Manager of Trial Plantation Project in Benakat (ATA - 186).
- 18. Mr. Nyoman Yuliansana - Staff of Directorate of Reforestation.
- 19. Mr. Endang Setiawan - Staff of Directorate of Reforestation.
- 20. Mr. Wazir Nengkean - Staff of South Sumatera Regional Forest Office.
- 21. Mr. Yadi Haryanto - Counterpart of Agroforestry Trial Plantation Project in Benakat (ATA - 186).
- 22. Mr. Tata Wiharta - Counterpart of Ecology, Trial Plantation Project in Benakat (ATA - 186).
- 23. Mrs. Retno Sekarsari - Counterpart of Nursery, Trial Plantation Project in Benakat (ATA - 186).
- 24. Mr. S u t o m o - Counterpart of Silviculture, Trial Plantation Project in Benakat (ATA - 186).
- 25. Mr. Bambang Sumadi - Staff of Directorate of Reforestation.
- 26. Mr. Djoko Widardjo - Staff of Directorate Regreening and Arable Land.
- 27. Mr. Agus Wahyudi - Staff of Planning Bureau.
- 28. Mr. Tony Hari Widiananto - Staff of Directorate of Reforestation.

From Japanese Government (JICA)

- 1. Mr. Hiroji Okabe - Chief Advisor of Trial Plantation Project in Benakat (ATA - 186).
- 2. Mr. Yoshihiro Motoyama - Secretary of Japan Embassy.

3. Mr. Tsuyoshi Ikeda - Expert of Forest Protection/Team Leader.
4. Mr. Minoru Arai - Expert of Silviculture.
5. Mr. Kiyoshi Yoshimoto - Staff of Representative JICA, Jakarta.

From Independent Agency

1. Mr. Mufti Mangan - Staff of Forestry Consultant, International Funds.

II. PROVISIONAL AGENDA

THE EIGHTH JOINT STEERING GROUP MEETING  
TRIAL PLANTATION IN BENAKAP (ATA - 186)

Tuesday, March 19, 1985

- 10.00 - 10.20 - Opening address by Director General RLR.
- 10.20 - 10.35 - Break (Coffee/Tea break).
- 10.35 - 10.50 - Review to 7<sup>th</sup> Joint Steering Group Meeting (Director of Reforestation).
- 10.50 - 11.20 - Progress Report up to February 1985.  
Field Manager for Trial Plantation Project (ATA-186)
- 11.20 - 11.40 - Technical Report  
(Field Manager/Counterpart).
- 11.40 - 12.00 - Plan of Operation for 1985/1986.  
(Mr. Zulkifli Mulsani).
- 12.00 - 13.00 - Discussion.  
(D.G. RLR/Director of Reforestation).
- 13.00 - 13.30 - Break (Lunch).
- 13.30 - 13.45 - Conclusion of the Meeting.  
(D.G. RLR/Director of Reforestation).
- 13.45 - 13.50 - Closing  
(D.G. RLR/Director of Reforestation).

CONCLUSION OF THE EIGHTH JOINT STEERING GROUP AND ITS IMPLEMENTATION

No.	Conclusion of the meeting	Implementation
1	2	3
1.	<p>In connection to the trial on herbicides application, the meeting suggested to the project to examine exactly how far the effect of herbicide on alang-alang regrowth (in suppressing alang-alang) as well as to trees.</p>	<p>Result of examination indicated that application of herbicide had just killed significantly alang-alang for about 3 months, after wards alang-alang will regrow. Survival rate of A. mangium is about 40 %.</p>
2.	<p>The meeting noted that objective of Agroforestry project is to increase farmers income participating in the project.</p>	<p>Income of the participant farmers had gradually increase due to additional wage daily get from participating in other activities in the project.</p>
3.	<p>Because coming budget to be allocated by JICA has not determined yet, the meeting requested JICA to inform fore mentioned budget promptly and prices of all equipment request by the project. Beside, JICA Jakarta office will do best to get appropriate budget for equipments.</p>	<p>In 1985/1986 Government of Japan agreed to aid equipments amounted to 50 million yen. Most of those equipment had been accepted completely in the project site.</p>
4.	<p>The meeting noted that the determination of Japanese short term experts, appropriate equipment, as well as budget will be discussed later on.</p>	<p>Number of Japanese short term experts come to the project in 1985/1986 was 4 persons with the following field specialization</p> <p>cost analysis : 2 persons forest engineering 1 person agroforestry : 1 person.</p>

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

**Report of the  
Ninth Joint Steering Group Meeting  
of the  
Indonesia-Japan  
Trial Plantation Project**

APRIL 29, 1986  
JAKARTA, INDONESIA

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- III. ANNEXES
  - A. LIST OF PARTICIPANTS
  - B. OPENING ADRESS BY MR. WARTONO KADRI, DIRECTOR GENERAL OF REFORESTATION AND LAND REHABILITATION MINISTRY OF FORESTRY
  - C. ADOPTED AGENDA
  - D. CONCLUSION OF THE EIGHTH JOINT STEERING GROUP MEETING
  - E. PROGRESS REPORT
  - F. TECHNICAL REPORT

Subject

1

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TRANSMITTAL LETTER

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TRANSMITTAL LETTER

Dear Sir,

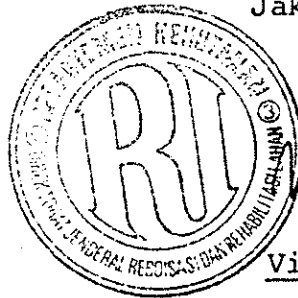
We have the honour to transmit herewith the Report of the Ninth Joint Steering Group Meeting, of the Trial Plantation Project (ATA-186) held in Jakarta, on April 26, 1986.

Accept Sir, the assurance of our highest consideration.

Jakarta, April 29, 1986

*Hiroji Okabe*

Hiroji Okabe  
Chief Advisor  
of ATA-186.



*Victor M. Sinaga*

Victor M. Sinaga  
Director of Reforestation

Subject

11

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REPORT OF THE NINTH JOINT STEERING GROUP MEETING

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REPORT OF THE NINTH JOINT STEERING GROUP MEETING  
FOR THE TRIAL PLANTATION PROJECT BENAKAT  
SOUTH SUMATERA ( ATA - 186 )

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1. The meeting suggested the Project to strongly request to the Direktorat General of Reforestation and Land Rehabilitation functional personnels by mentioning appropriate reasons.
2. The meeting noted that the former Technical Guidance for Afforestation on Grassland in Benakat South Sumatera be amended necessarily and be distributed throughout Indonesia for supporting reforestation programme.
3. The meeting suggested that the training facilities existing in the Project to be available and used by Forestry Education and Training Centre, and trainees be dispatched from provinces of Indonesia.
4. The meeting suggested the Project to continuously request to the South Sumatera Provincial Forest Service for speeding up administration process so that the planned activities could be implemented smoothly.
5. The meeting suggested the Project to carry out preventive and repressive methods continuously for overcoming security problems faced by the Project.
6. The meeting suggested the Project to prepare the Plan of Operation which would be implemented within the follow up period especially for 1986/1987 fiscal year. This matter should be discussed between the Japanese experts and Indonesia Project official by getting advice from the Directorate of Reforestation in Jakarta.
7. The meeting requested that in order to be able to conduct trials on reforestation techniques well, the Project should always deal with a smooth communication and coordination with the Forestry Research and Development Agency.
8. The meeting requested the Project to continuously investigate cost analysis of socio-economic of participant farmers in Agroforestry scheme being undertaken.

9. The meeting noted one subject for increasing the income of participant farmers in Agroforestry by the establishment of bee-keeping farm. For this purpose, the meeting suggested the Project to improve the existing bee-keeping form by using local or imported bee species. It was also hoped that the Directorate of Regreening and Land Arable Control could fully assist in the implementation.
10. The meeting noted that the Project considers the establishment of tree improvement such as seed orchard, seed stand, etc.

Subject

ANNEX A

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LIST OF PARTICIPANTS

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## LIST OF PARTICIPANTS

### From the Indonesian Government

1. Mr. Victor M. Sinaga Director of Reforestation DG RLR  
( as Acting Chairman)
2. Mr. Djumra Director of Planning DG. RLR.
3. Mr. K. Ritonga Staff of Planning Bureau Ministry of  
Forestry.
4. Mr. Saptana PH. Staff of Directorate of Reforestation
5. Mr. Hermani Apipudin Staff of Directorate of Reforestation
6. Mr. Kartiko Staff of Directorate of Reforestation
7. Mr. Gunawan Sumadi Staff of Directorate of Regreening and  
Land Arable Control.
8. Mr. Ombo Satjapradja Staff of Directorate of Soil Conservation.
9. Mr. Kardi Sabaruddin Field Manager of ATA-186
10. Mr. Wasir Nengkeman Staff of South Sumatera Regional Forest  
Office.
11. Mrs. Tetty S. Chief of Seed Technology Centre
12. Mr. Zainal Arifin Staff of Central of Education and training
13. Mr. Toyib Staff of South Sumatera provience Forest  
Office.
14. Mr. Zulkifli Mulsani Staff of Directorate of Reforestation.
15. Mr. Triyogo Sukanto Staff of Directorate of Reforestation
16. Mr. Nyoman Yuliarsana Staff of Directorate of Reforestation.
17. Mr. Yadi Haryanto Counterpart of Project ATA - 186.
18. Mr. Sutomo Counterpart of Project ATA - 186
19. Mr. Agus Rusmali Staff of Secretary of Directorate General  
RLR.
20. Mr. Agus Wiyanto Staff of Central of Education and Training

- |                              |                                       |
|------------------------------|---------------------------------------|
| 21. Mr. Asep Suwarna         | Staff of Directorate of Planning      |
| 22. Mr. Bambang Sri Hardanto | Staff of Directorate of Reforestation |

From Japanese Government ( JICA )

- |                        |  |
|------------------------|--|
| 1. Mr. H. Sasaki       | Asistant of Resident Representation<br>of JICA Jakarta |
| 2. Mr. Hiroji Okabe    | Chief Advisor of ATA - 186                             |
| 3. Mr. Yasuyuki Suzuki | The New Chief Advisor of ATA-186                       |
| 4. M. Shirahama        | Expert of Silviculture                                 |
| 5. Mr. Kyoji Hashimoto | Expert of Agroforestry                                 |

Subject

ANNEX B

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OPENING REMARKS BY MR. WARTONO KADRI, DIRECTOR GENERAL OF

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REFORESTATION AND LAND REHABILITATION MINISTRY OF FORESTRY

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OPENING ADRESS

By the Director General of Reforestation  
and Land Rehabilitation

for

The Ninth Joint Steering Group Meeting of  
the Trial Plantation Project in Benakat,  
South Sumatera.

April 26, 1986

---

Distinguished the Secretary of Japan Embassy in Jakarta.

Distinguished JICA Representative in Jakarta.

Distinguished all the members of the Ninth Joint Steering Group.

Distinguished all Attendants.

First of all I would like to welcome all of you present here to hold the Ninth Joint Steering Group Meeting of the Trial Plantation Project, Benakat South Sumatera. As the previous meeting, we use the meeting as a good occasion to discuss the progress of activities undertaken during the end of the extension period. I really anticipate that current problems encountered by the Project, either technical or non-technical one, can be overcome satisfactorily.

Gentlemen ,

As we all know the extension period of the Project terminated on April 11, 1986. Based on the recommendation of the Joint Consultation Team of October 28, 1986 both Governments agreed to extend the Project in term the follow-up cooperation for another 2 years starting on April 1986 and will terminate on March 31, 1988. The Record of Discussion of it was signed on April 2, 1986. I extremely admire that the four activities during the extension period namely Forest Protection System, Agroforestry Scheme, Transfer of Technology and Further Study and Development have been conducted satisfactorily. For those activities I appreciate very much the Japanese experts as well as Indonesian counterparts and other staff involved for their continuous efforts. I do look forward that hard work, serious effort and good cooperation

which have been built so far can be continuously emerged, so that all activities proposed for the follow-up period can also be done smoothly.

Gentlemen,

In this occasion I would like to underline once again that there are still much challenge that should be put on the shoulder of Indonesian foresters. In relation to one of the forestry development, Indonesia will rehabilitate critical land of 5.6 million hectares within the next three five-year development plan. In this connection, based on the result of about seven years of technical cooperation especially in the field of mechanized reforestation, it is our big concern that the transfer of technology within the Project can be disseminated throughout Indonesia. One crucial step for supporting the disseminating of technology in the field of mechanized reforestation is the contribution of Japan Government for machine and equipment through the scheme of Machinery Afforestation Provision Project Grant Aid in 1986 values ¥ 481 million. The location of the Afforestation project is Padanglawas North Sumatera and Way Terusan Lampung. I highly appreciate the Government of Japan for this contribution. It does reflects the success of the Project. However, it is also an interesting challenge to Indonesia foresters to utilize the machine and equipment as they are intended, for the success of reforestation program in Indonesia.

Gentlemen,

I anticipate that big achievement during seven years of technical cooperation will be a good starting point to carry out the four main activities proposed for the follow-up period. For this reason, I appeal strongly to all the members of the Joint Steering Group to exchange best idea and share sound suggestions for the smoothness of the coming activities. I am sure that without best responses and suggestions from you, the Project will not be able to well implement. Finally, I would like to say the highest thanks for the good cooperation and communication especially to the JICA Representative and the Embassy of Japan in Jakarta. I once more anticipate that this sound relation would be increasingly promoted forever. I also thank either Japanese experts and Indonesian counterparts which have performed

the high working ability in implementing the Project. Last but not least, I pray may God bless all the members of the Joint Steering Group for fully directing this meeting to find out the most suitable steps for implementing the Project in the next future.

I fully authorize the Director of Reforestation to declare and chair officially the Ninth Joint Steering Group Meeting. Thank you.

Jakarta April 26, 1986

The Director General of Reforestation  
and Land Rehabilitation

WARTONO KADRI

Subject

ANNEX C

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ADOPTED AGENDA

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ADOPTED AGENDA

THE NINTH JOINT STEERING GROUP MEETING TRIAL PLANTATION  
PROJECT IN BENAKAT(ATA-186)

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Saturday, April 26, 1986

- |               |   |
|---------------|---|
| 10.00 - 10.15 | Opening Address by Director General RLR (held by Director of Reforestation)   |
| 10.15 - 10.20 | Adoption of Agenda  |
| 10.20 - 10.30 | Introduction of Participants (Director of Reforestation and Chief Advisor)    |
| 10.30 - 10.40 | Review to the Eighth Joint Steering Group Meeting (Director of Reforestation) |
| 10.40 - 11.10 | Progress Report up to March 1986 (Field Manager of ATA-186)                   |
| 11.10 - 11.30 | Technical Report (Mr. Sutomo, Counterpart of ATA-186)                         |
| 11.30 - 11.50 | Technical Guidance for Afforestation ( Mr. H. Okabe )                         |
| 11.50 - 12.50 | Discussion (Director of Reforestation)  |
| 12.50 - 13.20 | Break ( Lunch )   |
| 13.20 - 13.30 | Conclusion ( Director of Reforestation )                                      |
| 13.30 - 13.35 | Closing ( Director of Reforestation )   |

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

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**REPORT OF THE  
TENTH JOINT STEERING GROUP MEETING  
OF THE  
INDONESIA - JAPAN  
TRIAL PLANTATION PROJECT**

OCTOBER, 1987

TENTH JOINT STEERING GROUP MEETING  
OF THE INDONESIA - JAPAN TRIAL PLANTATION PROJECT  
October 6, 1987  
Palembang, Indonesia

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  - B. OPENING ADDRESS BY Mr. WARTONO KADRI, DIRECTOR  
GENERAL OF REFORESTATION AND LAND REHABILITATION  
MINISTRY OF FORESTRY.
  - C. ADOPTED AGENDA
  - D. PROGRESS REPORT
  - E. TECHNICAL REPORT
  - F. PLAN OF OPERATION 1987/1988.

Subject

I

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LETTER OF TRANSMITTAL

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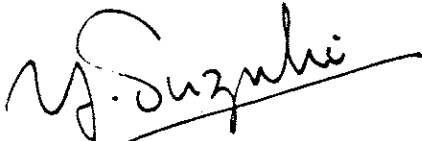
LETTER OF TRANSMITTAL

Dear Sir,

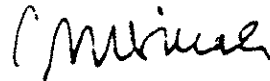
We have the honour to transmit herewith the Report of the Tenth Joint Steering Group Meeting, of the Trial Plantation Project in Benakat, South Sumatra (ATA-186) held in Palembang on October 6, 1987.

Accept Sir, the assurance of our highest consideration.

Jakarta, October 9, 1987.



Yasuyuki SUZUKI  
Chief Advisor of  
ATA - 186.



Victor M. Sinaga  
Director of Reforestation

Subject

II

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REPORT OF THE TENTH JOINT STEERING GROUP MEETING

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REPORT OF THE TENTH JOINT STEERING GROUP MEETING  
OF TRIAL PLANTATION PROJECT IN BENAKAT, SOUTH SUMATERA

October 6, 1987  
PALEMBANG, SOUTH SUMATERA

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I. INTRODUCTION

1. The Tenth Joint Steering Group Meeting of Trial Plantation Project in Benakat, South Sumatera (ATA-186) was held in Palembang, South Sumatera on October 6, 1987.
2. The Meeting was attended by Director of Reforestation, Director of Soil Conservation, Director of Regional Forestry Office, Director of Provincial Forestry Service, Head of Reforestation Technology Centre, Head of Land Rehabilitation and Soil Conservation, Member of Joint Steering Group, Resident Representative of JICA, Japanese Expert. The list of participants appears in Annex A.

II. OPEN SESSION

Opening Ceremony.

The meeting was officially opened by the Director of Reforestation on behalf of Director General of Reforestation and Land Rehabilitation, Forestry Department. In his remarks, he noted the project which had been undergoing for nine years in the field of Reforestation have result output in the form of reforestation techniques i.e nursery techniques, planting techniques, mechanized land preparation, agroforestry.

The transfer of technology among others were counterpart training in Japan (30 persons), and domestical training course. The text of his remarks appears in Annex B.

### III. SELECTION OF MEETING CHAIRMAN.

The meeting agreed that the Meeting chairman is Director of Reforestation.

### IV. APPROVAL OF THE PROVISIONAL AGENDA.

The meeting was approved that the provisional agenda as appearin Annex C.

### V. BUSINESS ARRANGEMENT.

The meeting agreed to meet in plenary.

### VI. MATTERS ARRISING FROM THE NINTH JOINT STEERING GROUP MEETING.

1. The meeting noted, until the end of September 1987, the Project have accepted 3 persons from 5 persons requierd which consisted of 1 Sarjana (Ir) and 2 Sarjana Muda (BScF).
2. The Technical Guidance for Afforestation on Grassland in Benakat, South Sumatera have been neccessarily ammended tranlated into Indonesia and will be disseminated through out Indonesia.
3. The project has cooperated with Forestry Education and Training Centre in conducting a training in the field of

mechanized reforestation for 40 persons assistant instructors (Widyaswara) which came from all provinces throughout Indonesia.

4. Since 1987/1988 fiscal year, the budget for operational activities except plantation tending financed by Reforestation Guarantee Fee (DJR). This system of budget is different from Inpres budget.
5. The project has taken preventive measure by means of assign some guards who secure the project in night time (night-watchmen). Because this method is not so effective, it will be assigned some security guard who secure the project either in day or night time.
6. The Plan of Operation for Follow-Up period 1986-1987, have been prepared after discussing with Japanese Experts and Indonesian Project Official.
7. Communication with the Forestry Research and Development Agency have been smoothly done through technical publication exchange.
8. Bee-keeping activity could not be developed well in the Project due to lack of skill for controlling local bee that attacked the exotic bee. So far, it is still no assistance given by Directorate of Regreening and Land Arable control yet.
10. The establishment of tree improvement activities such as seed orchard etc. around Benakat area should be carried out by the Seed Production and Testing Centre in South Sumatera.

## VII. PROGRESS REPORT UP TO MARCH 1987.

1986/1987 fiscal year, budget allocated for the Project values of Rp. 285,861,000,- come from DIP budget Rp 167,643,000,- and INPRES budget (Presidential Instruction) Rp 118,218,000,- while another source provided by JICA amounted ¥ 15,000,000. The detail of the report appear in Annex D.

### A. Nursery Activities.

The meeting noted, nursery has already produced 392,550 seedlings (0,89 unit). By the end of March 1987 approximately 280,000 seedlings had already been planted in the field. The other seedlings for replanting stock. The total finance expenditure is Rp. 6,895,000,-

### B. Plantation Activities.

1. The meeting noted, the establishment of 200 HA plantation has been fully completed (including agroforestry) at the end of March 1987. The finance expenditure was Rp. 50,193,000,-
2. The meeting noted, tending of the first year planted trees (380 Ha) has been already executed. Weeding frequency per year was 4 times including 1 time complete weeding. The finance expenditure was Rp. 20,262,000,- Tending of second year planted trees (4,892 Ha) has been already executed.

The finance expenditure was Rp. 40,812,000,-

C. Achievement of Technological Development Under DIP Budget.

The meeting noted, 21 item of study already established in scheme silviculture, tumpangsari (taungia) system, ecological, bee keeping and livestock and natural forest regeneration.

D. Technical Report of The Trial Plantation Project in Benakat, South Sumatera 1986/1987.

The meeting noted, the report consist of 4 tittles and adapted by 4 activities of Implementation Programme of the "Follow-Up Cooperation" of the Project. The detail of Report appears in Annex E.

E. Plan Of Operation 1987/1988.

1. The meeting noted the plan of operation for 1987/1988 is extending of 1986/1987 operation plan. Main activities for 1987/1988 are will produce 1 unit nursery (440,000 seedlings) consist of 6 species, 200 Ha plantation, trial and observation.
2. The budget allocated for 1987/1988 project was Rp. 327,260,000,- come from 4 (four) source i.e : APBN budget Rp. 70,000,000,- IHH budget Rp. 46,925,000,- DJR budget Rp. 185,000,000,- and Inpres budget Rp24,835,000,- APBN and IHH budget were used for activities related with trial and administration while DJR and INPRES were used for supporting operational program. The detail of 1987/

1988 Operational Plan appear in Annex F.

VIII. CONCLUSION ON MATTER ARISING OF THE NINTH JOINT STEERING GROUP MEETING.

1. Project Staff requirement.

The project was still needed two more persons for fulfilling the staff required.

2. Training Facilities in The Project.

The facilities available for training activities in Project was not sufficient yet for implementing the training which would be cooperated with Forestry Education and Training Centre.

3. The DJR Budget.

There was still problem on the disburshment and the continuation of the DJR budget. The process of administration of DJR, however, would be proposed to be speed-up.

4. Project Guard.

It suggested that the Project should hired local guards (SATPAM) for securing the project base camp other assigment of POLSUS.

The Provincial Forestry Service, however, still took into account about the request of POLSUS as far as POLSUS insufficient.

5. Cooperation With The Forestry Research and Developmet Agency.

The project shold not only make closer coordination but also



make closed cooperation with the Forestry Research Agency in conducting the trial on reforestation techniques especially for plantation such as thinning etc.

6. Bee keeping Activity.

Bee keeping activity in the project should be continued by means of trials which will be assisted by the Boy Scout (SAKA WANABAKTI). The Directorate of Regreening and Land Arable Control would given direct assistance through field survey, feasibility study etc. to the project in developing the bee keeping activity.

IX. CONCLUSION OF THE TENTH JOINT STEERING GROUP MEETING.

PALEMBANG, OCTOBER 6, 1987.

1. The meeting noted that result of the trials and reforestation technology assembled which had been carried out by the project should be immediately disseminated widely not only to the Ministry of Forestry concerned but also to other agency or private sectors which are mainly dealing with forest plantation activity.
2. The meeting noted that all result of the trials and reforestation technology assembled which will be widely distributed as "Technical Guidance" should be further discussed through seminar and consultation with the expert concerned such as Universities, Forestry Research Development Agency etc.
3. The meeting suggested that communication and coordination between the project and the Forestry Research and Development

Agency should be necessarily boosted in order to smoothen the continuity about researchs conducted by the Forestry Research and Development Agency and the trials cunduction by the project and also to avoid overlapping of activity and opinion difference between them.

4. The meeting suggested that it was necesaary to continuously carry out the bee keeping development activity in the project by means of cooperation with the Boyscout of Saka Wana-bakti. It was also very much hoped that the Directorate of Regreening and Land Arable Control could help the project in the preparation stage such as field survey and feasibility study.
5. The meeting noted that if the Project would be utilized as medium for reforestation activity by Forestry Training and Education Centre, it was necessary to build some supporting activities such as classroom, bedroom etc.
6. The meeting suggested that the established plantation of some species should be soon utilized as research objects by the Forestry Research an Development Agency.
7. The meeting suggested that before the Project terminated in March 1988, it should be necessary to make proposal concerning the future of the Project.
8. The meeting noted that for the security of the Project, it was necessary to assign security guards (SATPAM) which will be employed from both inside of the Project and outside of the Project.

Subject

ANNEX A

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LIST OF PARTISIPANTS

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## LIST OF PARTISIPANTS

### From the Indonesian Government.

- |                             |  |
|-----------------------------|--|
| 1. Mr. Victor M. Sinaga     | Director of Reforestation DG. RLR<br>(as acting Chairman)      |
| 2. Mr. Bambang Sukartiko    | Director of Soil Conservation DG. RLR                          |
| 3. Mr. TSH S i r a i t      | Chief of South Sumatera Regional Forest<br>Office              |
| 4. Mr. S u p a r m o        | Staff of Planning Bereau Ministry of<br>Forestry               |
| 5. Mr. P r a m o n o        | Staff of Directorate of Planning                               |
| 6. Mr. Saptana PH           | Staff Directorate of Reforestation                             |
| 7. Mr. Gunawan Sumadi       | Staff of Directorate of Regreening and<br>Land Arrable Control |
| 8. Mr. Rusli Harahap        | Staff of Central of Research and<br>Development                |
| 9. Mr. T a t o M            | Staff of Central of Education and<br>Training                  |
| 10. Mr. M. Kardi Sabaruddin | Field Manager of ATA-186                                       |
| 11. Mrs. Siti Nurilhamimah  | Staff of South Sumatera Regional Forest<br>Office              |
| 12. Mr. Wazir Nangkeman     | Staff of South Sumatera Regional Forest<br>Office              |
| 13. Mr. J.A T a t o         | Staff of South Sumatera Proviencie Forest<br>Office            |
| 14. Mr. M u n a w a w i     | Staff of South Sumatera Proviencie Forest<br>Office            |
| 15. Mr. Zulkifli Mulsani    | Staff of Directorat of Reforestation                           |
| 16. Mr. Slamet Adisubroto   | Staff of Directorate of Reforestation                          |
| 17. Mr. Nyoman Yuliarsana   | Staff of Directorate of Reforestation                          |
| 18. Mr. Yadi Hariyanto      | Counterpart of Project ATA - 186                               |
| 19. Mr. S u t o m o         | Counterpart of Project ATA - 186                               |

- |     |                      |                                  |
|-----|----------------------|----------------------------------|
| 20. | Mr. Edi Iswahyudi    | Counterpart of Project ATA - 186 |
| 21. | Mr. Bustami          | Counterpart of Project ATA - 186 |
| 22. | Mr. Engkos Kusnandar | Counterpart of Project ATA - 186 |
| 23. | Mr. Heru Dwi Riyanto | Counterpart of Project ATA - 186 |
| 24. | Mr. Wiyanto          | Counterpart of Project ATA - 186 |
| 25. | Mr. Burhan Ismail    | Counterpart of Project ATA - 186 |

From Japanese Government (JICA)

- |    |                      |  |
|----|----------------------|--|
| 1. | Mr. Hiroyo SASAKI    | Assistant of Resident Representation<br>of JICA, Jakarta |
| 2. | Mr. Yasuyuki SUZUKI  | Chief Advisor of ATA - 186                               |
| 3. | Mr. Masato SHIRAHAMA | Expert of Silviculture                                   |
-

Subject

ANNEX B

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OPENING ADDRESS BY MR. WARTONO KADRI, DIRECTOR GENERAL  
OF REFORESTATION AND LAND REHABILITATION, MINISTRY OF  
FORESTRY.

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OPENING ADDRESS  
BY THE DIRECTOR GENERAL OF REFORESTATION  
AND LAND REHABILITATION  
F O R  
THE TENTH JOINT STEERING GROUP MEETING OF THE TRIAL PLANTATION  
PROJECT IN BENAKAT, SOUTH SUMATRA  
OCTOBER 6, 1987

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Distinguished the Secretary of Japan Embassy

Distinguished JICA Jakarta Representative

Distinguished all members of the Joint Steering Group and all attendants,

First of all, I would like to say wellcome and thank you for attending the Tenth Joint Steering Group Meeting of The Trial Plantation Project in Benakat, South Sumatra. This is the first time that we hold meeting in Palembang in accordance with the recomendation made by the members in the Ninth Joint Steering Group Meeting held in Jakarta 1986. As previous meeting, this meeting is intended to discuss and evaluate plan and progress report or the implementation of Project particularly within the Follow-Up Period 1986/1988.

Gentlemen,

As we know that the Trial Plantation Project in Benakat South Sumatra had been started since 1979 with the periods of activities as follow :

1. The first Period (1979 - 1984).

The Project dealt with ten main activities are :

- a. Species trial
- b. Nursery techniques
- c. Planting techniques

- d. Techniques for counter measure against fire, insect, disease and meteorological damage.
- e. Techniques for designing and managing forest and soil conservation work.
- f. Techniques for the application of machine power.
- g. Test and investigation in the environmental implication of afforestation.
- h. Planning and evaluation techniques of afforestation project.
- i. Other necessary techniques.

2. The second period referred to as the Extension Period (1984 - 1986)

The Project was emphasized on four activities, in which some activities in the first period were not necessary to be continued anymore.

The activities are as follows :

- a. Forest protection
- b. Agroforestry scheme
- c. Transfer of Technology
- d. Further study and development.

3. The third period referred to as the Follow up Period (1986 - 1988).

The Project is dealing with four activities which is aimed at more stabilising the activities undergone in the first period as well as in the extension period consisting of :

- a. Techniques for counter measures against fire, insect, disease and meteorological damage.
- b. Studies on the social and environmental implication of afforestation.



- c. Planning, management and evaluation techniques of afforestation project.
- d. Other necessary techniques.

Gentlemen,

The technical cooperation between Japan c.q JICA and Indonesia c.q Directorate General Reforestation and Land Rehabilitation which had been under going for nine years in the field of Reforestation have resulted outputs in the form of reforestation techniques for examples ;

In the field of nursery techniques, output obtained among other were the pattern of semi mechanization permanent nursery, the selection of suitable seedlings, generatively and vegetatively seedlings production for some species and bare root seedlings.

In the field of planting techniques, among others were the selection of species suited for Benakat condition, mechanized land preparation, agroforestry, bare root seedlings planting and the establishment of two storied plantation.

In the field transfer of technology among others were counterpart training in Japan (30 persons), domestical training course in the field of nursery, planting, fire control which have been involved either foresters from Provinces throughout Indonesia or Project staff and local people.

In the mean time, in the field or forest protection, it had been developing techniques for counter-measure against insect-pest and fire control.

By having those outputs, it is hoped that the result of trials will be able to be implemented for the support of the main activities of the Directorate General of Reforestation and Land Rehabilitation, soon.

Gentlemen,

Although the Technical Cooperation will be terminated on March 1988, I would like to strengthen to the Reforestation Technology Development Centre Benakat to continuously carry out trials and built-up technology in the field of nursery, land preparation, planting, tending including thinning, insect-pest control and fire control in accordance with the scope of task and function of the Reforestation Technology Development Centre.

The above mentioned trials are also being carried out in the Reforestation Technology Development Centre Banjarbaru with the priority activity stressed on the development of permanent nursery techniques adopted from Finlandia.

Besides, for supporting the availability of good quality of seed sufficiently, trials and technology built-up on seed have been undertaken in The Seed Technology Development Center in Bogor. While, in Kaliurang Yogyakarta, it has also been doing trials on tree improvement.

Gentlemen,

Based on the results of the Joint Evaluation Team of Indonesia and Japanese (1983), Joint Consultation Team (1987) and some the Japanese Guidance Team, it was denoted that the Trial Plantation Project have been succeeded satisfactorily.

As a success of the Project, The Government of Japan had presented grant aid in the form of machinery provision amounted totally to 481 million Yen used for the support of mechanized reforestation in North Sumatera and Lampung. We fully hope that the equipments will also be utilized for both the critical land rehabilitation of 4.3 million hectares and the

establishment of Industrial Forest Plantation of 4.4 million hectares by the end of the Sixth five year Development Plan (Repelita VI).

On other hand, the Government of Japan have committed to present grant aid for development survey on the establishment of industrial forest plantation in South Sumatera which will be implemented in 1987/1988 and setting up new technical cooperation on Watershed Management in South Sulawesi started in 1988.

Gentlemen,

Because this meeting is the last Joint Steering Group Meeting for the Project, so in this occasion I'd like to deeply appreciate to all of Japanese experts, Indonesia counterparts, the members of Joint Steering Group and those who concerned for their efforts and hard work to the succes of the project.

I really hope that this good cooperation should be well and continuously, maintained through the new project even if the project ended.

I would like also thank to the Governmrt of Japan c.eg Japan Embassy Jakarta, JICA Jakarta representative, Provincial government of South Sumatra, Regional and Provincial Forestry Service of South Sumatera for their support to the project.

Last but not least, especially for the Head of Regional and Provincial Forestry Service and the Head of Reforestation Technology Development Center, I very much hope that the result of the project in Benakat could no be well maintained but also be developed as a symbol or monument for close relation-

ship between Indonesia Government and Japanese Government particularly to the endless friendship between Indonesian foresters and Japanese foresters.

Thank you.

THE DIRECTOR GENERAL OF REFORESTATION  
AND LAND REHABILITATION

WARTONO KADRI

Subject

ANNEX C

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A D O P T E D   A G E N D A

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ADOPTED AGENDA

Tuesday, October 6, 1987

THE TENTH JOINT STEERING GROUP MEETING TRIAL  
PLANTATION IN BENAKAT ( ATA - 186 )

- 10.00 - 10.10 : Wellcome address by Chief of South Sumatera  
Regional Forestry Office.
- 10.10 - 10.30 : Opening address by Director General RLR
- 10.30 - 10.50 : B r e a k
- 10.50 - 11.00 : Selection of Meeting Chairman  
(Director of Reforestation)
- 11.00 - 11.10 : Approval of The Provisional Agenda
- 11.10 - 11.20 : Busiess Arrangement
- 11.20 - 11.40 : Matter's Arrising From The Ninth Joint  
Steering Group Meeting.
- 11.40 - 12.10 : Progress Report up to March 1987  
(Field Manager/Counterpart)
- 12.10 - 12.40 : Technical Report  
(Field Manager/Counterpart)
- 12.40 - 13.40 : Break (Lunch)
- 13.40 - 14.00 : Plan Of Operation For 1987/1988
- 14.00 - 15.00 : Discussion (Chairman)
- 15.00 - 15.20 : B r e a k
- 15.20 - 15.40 : Conclusion of the Meeting
- 15.40 - 15.50 : Closing (DG. of RLR/Director of Refores  
tation).
-