

3-3 評価の総括

すでに述べたように、わが国評価調査団はフェーズⅡにおける多大の成果を高く評価し、本案件がインドネシア農業に広範囲に効果を及ぼし、プロジェクト終了後も自立発展の見通しが十分であることを報告した。そして、こうした評価調査の結果を踏まえて、合同評価報告書において、インドネシア政府に対する勧告と提言を行ったが、これに対してインドネシア側は、プロジェクト終了後の日本側の措置について、勧告に盛り込んでほしい旨の意向を示した。しかし、それはBAPPENAS主導の総合病虫害管理(IPM)プロジェクトとの関連もあって強い要請ではなく、評価調査団側も、本プロジェクトとIPMプロジェクトの間には考え方の違いがあることなどから、現時点で勧告に日本側のプロジェクト終了後の措置について盛り込むのは妥当でないとの判断した。同調査団の勧告と提言は次章に述べるとおりである。

4 提言および事後管理

4-1 提言

わが国評価調査団は合同評価報告書において下記のような提言を行った。

- (1) 当プロジェクトが1992年3月31日に終了するとの前提のもとに、プロジェクトは協力終了まで次の点に重点を置くべきである。
 - 1) 進捗が比較的遅れている分野について、日本人専門家からインドネシア側カウンターパートに対する指導を集中し、カウンターパートを自立できるように育成する。
 - 2) 国家作物保護施策のガイドラインとして使用されるように、これまでの成果を取りまとめる。調査・研究の成果は印刷して、関係者に配布する。
 - 3) 成果の効果的な活用のために、将来における同様のプロジェクトの発展、作物保護施策、関連する研究活動などについて、関係者と十分に意見交換を行う。
- (2) 協力が終了した後には、インドネシア政府によって次のような措置が行われるべきである。
 - 1) 第1フェーズを含めて約12年間続いた協力プロジェクトの成果を尊重し、国民のためにそれらを改良して実行に移すべく最大の努力を払い、願わくば同様の活動を持続し、さらに発展させる。
 - 2) 上記活動のため、ならびに、これまで日本から供与された機材と施設の効果的利用のため、資金的および人材的な手当てを行う。

4-2 事後管理

すでに述べたように、BAPPENAS主導のIPMプロジェクトとの関連から、上記勧告にはプロジェクト終了後の日本側の措置に関する事項は盛り込まれなかった。ただし、インドネシア側の要請があれば、短期専門家の派遣による対応を行うべきであるとの見解が評価調査団により示された。

資 料 編

1. 討議議事録 (R/D) 英文、他

1-1 作物保護強化計画 (当初)

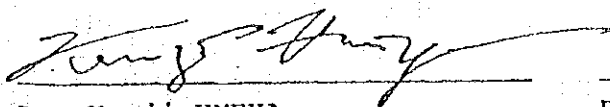
THE RECORD OF DISCUSSIONS BETWEEN THE JAPANESE
IMPLEMENTATION SURVEY TEAM AND THE AUTHORITIES
CONCERNED OF THE GOVERNMENT OF THE REPUBLIC OF
INDONESIA ON THE JAPANESE TECHNICAL COOPERATION
FOR THE PLANT PROTECTION PROJECT (ATA-162)

The Japanese Implementation Survey Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as JICA) and headed by Dr. Kenji UMEYA, visited Indonesia from June 9 to June 23, 1980 for the purpose of working out the details of the technical cooperation program concerning the Plant Protection Project in Indonesia, with emphasis on Food Crop.

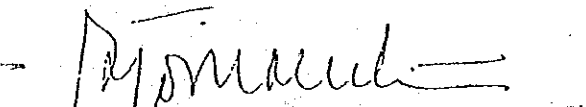
During its stay in Indonesia, the Team exchanged views and had a series of discussions with the Indonesian authorities concerned in respect of the desirable measures to be taken by both Governments for the successful implementation of the above-mentioned Project.

As a result of the discussions, the Team and the Indonesian authorities concerned agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Jakarta, June 18, 1980



Dr. Kenji UMEYA
Leader, Japanese Implementation
Survey Team,
Japan International Cooperation
Agency



Dr. Ir. Ida Nyoman OKA
Director of Food Crop Protection,
Directorate General of Food
Crop Agriculture,
Ministry of Agriculture

THE ATTACHED DOCUMENT

I. COOPERATION BETWEEN BOTH GOVERNMENTS

1. The Government of Japan and the Government of the Republic of Indonesia will cooperate with each other in implementing the Plant Protection Project (hereinafter referred to as "the Project") for the purpose of developing plant protection measures with emphasis on rice insect pests and diseases control, which is concentrated in the northern part of West Java, Indonesia.
2. The Project will be implemented in accordance with the Master Plan which is given in Annex I.

II. DISPATCH OF JAPANESE EXPERTS

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense services of the Japanese experts as listed in Annex II through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The Japanese experts referred to in 1 above and their families will be granted in Indonesia the privileges, exemptions and benefits no less favourable than those accorded to experts of third countries working in Indonesia under the Colombo Plan Technical Cooperation Scheme including the following:
 - (1) Exemption from income tax and charges of any kind imposed on or in connection with the living allowances remitted from abroad in relation with the implementation of the Project;

- (2) Exemption from import and export duties and any other charges imposed in respect of personal and household effects which may be brought into from abroad or taken out of the Republic of Indonesia;
- (3) Exemption from import tax, import sales tax, sales tax, and other taxes and charges of any kind imposed on or in connection with the purchase in the Republic of Indonesia by the Japanese experts of one motor vehicle per each expert;
- (4) Free local medical services and facilities to the Japanese experts and their families.

III. PROVISION OF MACHINERY AND EQUIPMENT

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense such machinery, equipment and other materials necessary for the implementation of the Project as listed in Annex III, through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The articles referred to in 1 above will become the property of the Government of the Republic of Indonesia upon being delivered c.i.f. to the Indonesian authorities concerned at the ports and/or airports of disembarkation, and will be utilized exclusively for the implementation of the Project in consultation with the Japanese Team Leader referred to in Annex II.

IV. TRAINING OF INDONESIAN PERSONNEL IN JAPAN

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to receive at its own expense the Indonesian personnel connected with the Project for technical training in Japan through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The Government of the Republic of Indonesia will take necessary measures to ensure that the knowledge and experience acquired by the Indonesian personnel from technical training in Japan will be utilized effectively for the implementation of the Project.

V. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THE REPUBLIC OF INDONESIA

1. In accordance with the laws and regulations in force in Indonesia, the Government of the Republic of Indonesia will take necessary measures to provide at its own expense:
 - (1) Services of the Indonesian counterpart personnel and administrative personnel as listed in Annex IV;
 - (2) Land, buildings and facilities as listed in Annex V;
 - (3) Supply or replacement of machinery, equipment, instrument, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than those provided through JICA under III above;

- (4) Transportation facilities and travel allowance for the Japanese experts for the official travel within Indonesia;
 - (5) Existing suitably furnished accommodations for the Japanese experts and their families.
2. In accordance with the laws and regulations in force in Indonesia, the Government of the Republic of Indonesia will take necessary measures to meet:
- (1) Expenses necessary for the transportation within Indonesia of the articles referred to in III above as well as for the installation, operation and maintenance thereof;
 - (2) Customs duties, internal taxes and any other charges, imposed in Indonesia on the articles referred to in III above;
 - (3) All running expenses necessary for the implementation of the Project.

VI. ADMINISTRATION OF THE PROJECT

1. The Director of Food Crop Protection of Directorate General of Food Crop Agriculture will be responsible for administration and the implementation of the Project, and the Japanese experts will provide necessary technical guidance and advice for the implementation of the Project.
2. For the effective implementation of the Project, Joint Committee consisting of the members as listed in Annex VI will be established. The Joint Committee will meet regularly at least once a year

and its main functions will be to formulate the details of the Master Plan, the annual operational work plan and to deal with other specific problems.

3. The Project will be implemented with close cooperation of the Central Research Institute for Agriculture (hereinafter referred to as "CRIA").

VII. CLAIMS AGAINST JAPANESE EXPERTS

The Government of the Republic of Indonesia undertakes to bear claims, if any arises, against the Japanese experts engaged in the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in Indonesia except for those arising from the willfull misconduct or gross negligence of the Japanese experts.

VIII. MUTUAL CONSULTATION

There will be mutual consultation between the two Governments on any major issues arising from, or in connection with this Attached Document.

IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be five (5) years from June 18, 1980.

ANNEX I MASTER PLAN

1. With a view to minimizing rice yield losses caused by insect pests and diseases, the Project will carry out studies to promote the rice insect pest and disease control capabilities in Indonesia.

2. The Project will consist of the following activities;
 - (1) Observatory Laboratory at Jatisari
Studies on rice insect pests and diseases.
 - (2) Biological Laboratory at CRIA - Bogor
Biological research in rice insect pests and diseases.
 - (3) Pesticide Laboratory at Pasarminggu
Analysis of pesticides.
 - (4) Central Office at Pasarminggu
Programming of annual operational plan and offer of technical advices for food crop protection.
 - (5) Other activities
 - a. Exchange of information, specimen and research reports.
 - b. Upgrading the capabilities of food crop protection staff and workers.
 - c. Activities to be agreed upon by the authorities concerned of the two Governments.

ANNEX II JAPANESE EXPERTS

CATEGORY	FIELD	NO.
1. Team Leader		
2. Experts	Entomologist	3.
3. Liaison Officer		1.

- Note: (1) Team Leader will be appointed from among the Experts in 2 above.
- (2) Besides the above mentioned long term experts, short term experts in the same and/or other fields may be dispatched when necessity arises.

ANNEX III LIST OF THE ARTICLES

1. Equipment, machinery, instruments, tools, spare parts and other materials for study and laboratory works
2. Pesticides and other chemicals for study and laboratory works
3. Audio-visual aids and related articles
4. Vehicles
5. Books and other necessary printed matters.
6. Other necessary equipment and materials

ANNEX IV LIST OF INDONESIAN STAFF

1. Project Leader
2. Counterpart Officials to the Japanese Experts
3. Laboratory assistants
4. Field workers
5. Clerical and service personnel including typists, clerks, drivers and others

ANNEX V LIST OF LAND, BUILDINGS AND FACILITIES

1. Central Office and Laboratories, Pasarminggu
2. Observatory Laboratory, Jatisari
3. Laboratories, CRIA - Bogor
4. Experimental farm land, Jatisari
5. Store-houses for equipment, machinery and other materials
6. Garages
7. Other necessary land and buildings

ANNEX VI JOINT COMMITTEE

1. Composition

1-1. Chairman Director of Food Crop Protection
Secretary Head of the Subdirectorate of Observation &
Forecasting,
Directorate of Food Crop Protection

1-2. Indonesian side

- (1) Head of the Subdirectorate of Pest and Disease Control,
Directorate of Food Crop Protection
- (2) Head of the Subdirectorate of Pesticide,
Directorate of Food Crop Protection
- (3) Head of Division of Insect Pests and Diseases,
CRISA - Bogor
- (4) Director of Programming of Directorate General of
Food Crop Agriculture
- (5) Representative of BIMAS
- (6) Representative of the Bureau of Planning, Ministry
of Agriculture
- (7) Other personnel appointed by Chairman

1-3. Japanese Side

- (1) Team Leader
- (2) Experts
- (3) Liaison Officer
- (4) Representative of JICA

Note: Officials of the Embassy of Japan and the Japanese
Team Leader for the strengthening of Legumes in
relation to Cropping System Research Project may
attend Joint Committee meetings as observer.

Tentative Implementation Programme for the Plant Protection Project in Indonesia

Phasing of Cooperation	'80/'81		'81/'82		'82/'83		'83/'84		'84/'85		'85/'86		Remarks	
	4	7	10	1	4	7	10	1	4	7	10	1		4
I. Activities of the Project														
1. Observatory Laboratory at Jatisari														
(1) Studies of rice insect pests and diseases														
2. Biological Laboratory at CRIA-Bogor														
(1) Biological research of rice insect pests and diseases														
3. Pesticide Laboratory at Pasarminggu														
(1) Analysis of pesticides														
4. Central Office at Pasarminggu														
(1) Programming of annual operational plan and technical advices for food crop protection														
5. Other activities														
(1) Exchange of information, specimen and research reports														
(2) Upgrading the capabilities of food crop protection staff and workers														
(3) Activities to be agreed upon by the authorities concerned of the two Governments														

Tentative Implementation Programme for the Plant Protection Project in Indonesia

Phasing of Cooperation	Fiscal Year		'80/'81		'81/'82		'82/'83		'83/'84		'84/'85		'85/'86		Remarks
	Calendar Year	Year	4	(R/D)	4	7	10	1	4	7	10	1	4	7	
H. Measurements by Indonesian side															
1. Counter budget															
2. Staffing															
3. Unloading and installation of equipment															
4. Other necessary measures															
III. Japanese experts															
1. Long term experts															
(1) Team leader															
(2) Entomologist															
(3) Entomologist															
(4) Liaison officer															
2. Short term experts															
(1) Entomologist															
(2) Plant pathologist															
(3) Pesticide chemist															
(4) Others when necessity arises															
N. Training in Japan															
1. Technical training															
2. Observation/study tour															
V. Japanese teams															
1. Programming/guidance															
2. Evaluation															
M. Provision of equipment															
1. Procurement															
2. Unloading/installation															

3 or 4 persons per year

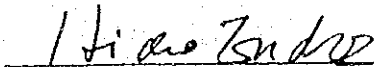
1 - 2 作物保護強化計画 (フェーズII)

THE RECORD OF DISCUSSIONS
BETWEEN THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF JAPAN
AND THE GOVERNMENT OF THE REPUBLIC OF INDONESIA
ON THE JAPANESE TECHNICAL COOPERATION FOR
THE FOOD CROP PROTECTION PROJECT (THE SECOND PHASE OF ATA-162)

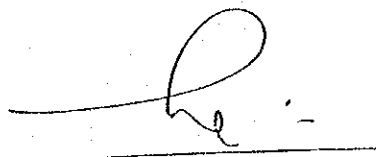
The Japan International Cooperation Agency (hereinafter referred to as "JICA"), with regard to the recommendation of the Note of Understanding of the Joint Evaluation on the Plant Protection Project (ATA - 162) dated November 27, 1986, had a series of discussions through the Resident Representative of JICA in Indonesia with the authorities concerned of the Government of the Republic of Indonesia in view of the desirable measures to be taken by both Governments for the Japanese technical Cooperation programme concerning the ^{Food} Crop Protection Project (the Second Phase of ATA - 162). *100.*

As a result of the discussions, JICA and the authorities concerned of the Government of the Republic of Indonesia agreed to recommend to their respective Governments the matters referred to in the document attached hereto.

Jakarta, February 17, 1987.



Hideo ENDO
Resident Representative
in Indonesia
Japan International
Cooperation Agency.



Ir. Tb. Suhaedi Wiraatmadja
Director General of
Food Crop Agriculture
Ministry of Agriculture.

THE ATTACHED DOCUMENT

I. COOPERATION BETWEEN BOTH GOVERNMENTS

1. The Government of Japan and the Government of the Republic of Indonesia will cooperate with each other in implementing the Food Crop Protection Project - the second phase of ATA-162 (hereinafter referred to as "the Project") for the purpose of developing advanced technologies for forecasting and efficient control system against biologically inhibiting factors affecting production of rice and palawija, mainly soybean.
2. The Project will be implemented in accordance with the Master Plan which is given in I of the Annex.

II. DISPATCH OF JAPANESE EXPERTS

1. In accordance with laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense services of the Japanese experts as listed in II of the Annex through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. Privileges, exemptions and benefits to be granted by the Government of the Republic of Indonesia to the Japanese experts and their families in the Republic of Indonesia will be no less favourable than those granted to experts of third countries or of international organizations such as the United Nations performing similar missions and include the following :
 - (1) Exemption from income tax and charges of any kind imposed on or in connection with the living allowances remitted from abroad in relation to the implementation of the Project;
 - (2) Exemption from import and export duties and any other charges imposed in respect of personal and household effects which may be brought into from abroad or taken out of the Republic of Indonesia;
 - (3) Exemption from import tax, import sales tax, sales tax and other taxes and charges of any kind imposed on in connection with the

purchase in the Republic of Indonesia by the Japanese experts of one motor vehicle per each expert;

- (4) Free local medical services and facilities to the Japanese experts and their families.

III. PROVISION OF MACHINERY AND EQUIPMENT

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to provide at its own expense such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in III of the Annex through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The Equipment will become the property of the Government of the Republic of Indonesia upon being delivered c.i.f. to the Indonesian authorities concerned at the ports and/or airports of disembarkation, and will be utilized exclusively for the implementation of the Project in consultation with the Japanese Experts referred to in II of the Annex.

IV. PROVISION OF SPECIAL MEASURES

For fostering the smooth implementation of the Project, in accordance with laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA as follows :

- (1) To supplement a portion of local cost of expenditures such as production cost for teaching materials, travel allowances related to travel tour and field training for instructors and trainees, special instructors' fees, supply cost of training materials, etc., within the Republic of Indonesia.
- (2) To supplement a portion of the local cost expenditures for the execution of the physical infrastructure such as construction work of the experimental field with irrigation and drainage facilities and so on when necessity arises.

V. TRAINING OF INDONESIAN PERSONNEL IN JAPAN

1. In accordance with the laws and regulations in force in Japan, the Government of Japan will take necessary measures through JICA to receive at its own expense the Indonesian personnel connected with the Project for technical training in Japan through the normal procedures under the Colombo Plan Technical Cooperation Scheme.
2. The Government of the Republic of Indonesia will take necessary measures to ensure that the knowledge and experience acquired by the Indonesian personnel from technical training in Japan will be utilized effectively for the implementation of the Project.

VI. SERVICES OF INDONESIAN COUNTERPART AND ADMINISTRATIVE PERSONNEL

1. In accordance with the laws and regulations in force in the Republic of Indonesia, the Government of the Republic of Indonesia will take necessary measures to secure at its own expense the necessary services of Indonesian counterpart and administrative personnel as listed in IV of the Annex.
2. The Government of the Republic of Indonesia will allocate the necessary number of suitably qualified personnel corresponding to each Japanese expert to be dispatched by the Government of Japan as specified in II of the Annex for the effective and successful transfer of technology under the Project.

VII. MEASURES TO BE TAKEN BY THE GOVERNMENT OF THE REPUBLIC OF INDONESIA

1. In accordance with the laws and regulations in force in the Republic of Indonesia, the Government of the Republic of Indonesia will take necessary measures to provide at its own expense :
 - (1) Land, buildings and facilities as listed in V of the Annex;
 - (2) Supply or replacement of machinery, equipment, instrument, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than those provided through JICA under III above;

- (3) Transportation facilities and travel allowance for the official travel of Japanese experts within the Republic of Indonesia; and
- (4) Suitably furnished accomodation for the Japanese experts and their families.

In addition, all equipment and machinery provided through JICA for implementing of the Plant Protection Project, ATA-162 (June, 1980-March, 1987) will be used for implementing the Project.

2. In accordance with the laws and regulations in force in the Republic of Indonesia, the Government of the Republic of Indonesia will take necessary measures to meet :
 - (1) Expenses necessary for the transportation of the Equipment within the Republic of Indonesia as well as for the installation, operation and maintenance thereof;
 - (2) Customs duties, internal taxes and any other charges, imposed on the Equipment in the Republic of Indonesia; and
 - (3) All running expenses necessary for the implementation of the Project.

VIII. ADMINISTRATION OF THE PROJECT

1. The Director General of Food Crop Agriculture, Ministry of Agriculture, will bear overall responsibilities for the implementation of the Project.
2. The Director of Food Crop Protection, Directorate General of Food Crop Agriculture, as the Head of the Project, will be responsible for the administrative and managerial matters of the Project.
3. The Japanese Team Leader will provide necessary recommendation and advice on technical and administrative matters concerning the implementation of the Project to the Head of the Project.
4. The Japanese experts will give necessary technical guidance and advice to the Indonesian counterpart personnel on matters pertaining to the implementation of the Project.

5. For the effective and successful implementation of the Project, a Joint Committee will be established with the function and composition as referred to in VI of the Annex.
6. The Project will be implemented in close collaboration with the Central Research Institute for Food Crops (hereinafter referred to as "CRIFC").

IX. CLAIMS AGAINST JAPANESE EXPERTS

The Government of the Republic of Indonesia undertakes to bear claims, if any arises, against the Japanese experts engaged in the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in the Republic of Indonesia except for those arising from the willful misconduct or gross negligence of the Japanese experts.

X. MUTUAL CONSULTATION

There will be mutual consultation between the two Governments on any major issues arising from, or in connection with this Attached Document.

XI. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this Attached Document will be five (5) years from April 1, 1987.

A N N E X

I. MASTER PLAN

1. Objectives

With a view to contribute to high yield and stable production of rice and palawija mainly soybean in the Republic of Indonesia, the Project will carry out studies on advanced technologies for forecasting and efficient control system against biologically inhibiting factors affecting their production, based on the results obtained through the activities of the Plant Protection Project (ATA-162), conducted from June 18, 1980 to March 31, 1987.

2. Activities of Japanese Technical Cooperation

Japanese Technical Cooperation will be implemented at the laboratories, experimental farms and offices as listed in V of the Annex in line with the following framework :

- (1) Technical guidances to food crop protection measures i.e. programming of annual operational plan, data filing and analysis.
- (2) Field and laboratory studies for the implementation of forecasting, surveillance and control of insect pests, diseases and rats of rice and palawija mainly soybean.
- (3) Improvement of pesticide analysis for the purpose of pesticide quality control and pesticide residue particularly on food crops.
- (4) Other activities
 1. Exchange of information, specimens and research reports
 2. Advice on training for food crop protection staff and workers
 3. Activities to be agreed upon by authorities concerned of the two Governments.

II. JAPANESE EXPERTS

1. Long - Term Assignment

<u>Category</u>	<u>F i e l d</u>	<u>No. of Expert</u>
(1) Team Leader		1
(2) E x p e r t s	Entomologist	2
	Plant Pathologist	1
(3) Coordinator	Plant Protection Specialist	1
	Total Number	5

Note : One of the entomologists will be attached to the Food Crop Protection Center VII at Denpasar.

2. Short - Term Assignment

Short-term experts in the related fields may be dispatched when necessity arises.

III. LIST OF THE ARTICLES TO BE PROVIDED BY THE GOVERNMENT OF JAPAN

1. Equipment, machinery, instruments, tools, spare parts and other materials for laboratory and field work
2. Pesticides and other chemicals for laboratory and field work
3. Audio - visual aids and articles
4. V e h i c l e s
5. Books and other necessary printed matters
6. Other necessary minor equipment and materials.

IV. LIST OF INDONESIAN COUNTERPARTS AND ADMINISTRATIVE PERSONNEL

1. Director of Food Crop Protection, Directorate General of Food Crop Agriculture, Ministry of Agriculture (Head of the Project)
2. Counterpart Researchers to the Japanese Experts
3. Laboratory Assistant
4. Field Workers
5. Clerical and service personnel including typists, clerks, drivers etc.

V. LIST OF LAND, BUILDING AND OTHER INCIDENTAL FACILITIES

1. Central Office at Pasar Minggu
2. Laboratory and experimental farm land of the Pests Forecasting Center at Jatisari
3. Laboratory and experimental farm land of the Food Crop Protection Center I at Medan
4. Laboratory and experimental farm land of the Food Crop Protection Center VII at Denpasar
5. Laboratories concerned with insect pests, diseases and rats at Bogor Research Institute for Food Crops
6. Pesticide Laboratory at Pasar Minggu
7. Store-houses for equipment, machinery and other materials
8. G a r a g e s
9. Other necessary land and buildings.

VI. JOINT COMMITTEE

1. F u n c t i o n s

The Joint Committee will meet at least once a year and whenever necessity arises, and work :

- (1) To formulate the Annual Work Plan of the Project in line with the Tentative Schedule of Implementation formulated under the framework of this Record of Discussions;
- (2) To review the overall progress of the technical cooperation programme as well as the achievement of the above mentioned Annual Work Plan;
- (3) To review and exchange views on major issues arising from or in connection with the technical cooperation programme.

2. Composition

- (1) C h a i r m a n : Director General of Food Crop Agriculture,
Ministry of Agriculture.
- (2) Indonesian Side :
 1. Director of Food Crop Protection (Head of the Project)
 2. Director of Food Crop Programming, Directorate General of Food Crop Agriculture.
 3. Head of the Sub-Directorates, Directorate of Food Crop Protection
 4. Director of Central Research Institute for Food Crops (CRIFC)
Ministry of Agriculture.
 5. Representative of Bogor Research Institute for Food Crops (CRIFC)
 6. Representative of the Secretariat General, Ministry of Agriculture.
 7. Representative of National Planning Bureau (BAPPENAS)
 8. Representative of Cabinet Secretariat (SETKAB)
 9. Other personnel appointed by Chairman.

(3) Japanese Side

1. Team Leader
2. Coordinator
3. Other experts and personnel concerned to be dispatched by JICA
if necessary
4. Representative of JICA Indonesia Office.

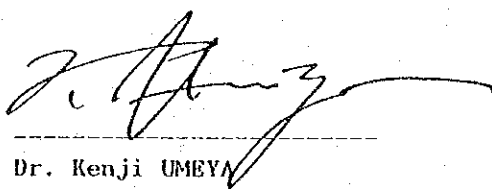
Note : Officials of the Embassy of Japan may attend the Joint Committee
as Observers.

TENTATIVE SCHEDULE OF IMPLEMENTATION
FOR THE FOOD CROP PROTECTION PROJECT
(THE SECOND PHASE OF ATA-162)

The Japanese Consultation Survey Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Dr. Kenji Umeya visited the Republic of Indonesia from December 12 to December 23 in 1987. The Team and the Indonesian authorities concerned have jointly formulated the Tentative Schedule of Implementation for the Food Crop Protection Project (hereinafter referred to as "the Project") as annexed hereto.

This has been formulated on the basis of the Record of Discussions on the Japanese Technical Cooperation for the Project signed between the Resident Representative of JICA in Indonesia and the Indonesian authorities concerned on the conditions that necessary budget will be allocated for the implementation of the Project by both sides, and that the above-mentioned schedule is subject to change within the framework of the Records of Discussions when necessity arises in the course of implementation of the Project.

Jakarta, December 18, 1987



Dr. Kenji UMEYA
Leader
The Japanese Consultation
Survey Team, JICA



Dr. Ir. A. Muin Pabinru
Director General of Food Crop
Agriculture,
Ministry of Agriculture

	'87/'88	'88/'89	'89/'90	'90/'91	'91/'92
<p style="text-align: center;"><u>PROJECT ACTIVITIES</u></p> <p>1. TECHNICAL GUIDANCE TO FOOD CROP PROTECTION MEASURES</p> <p>1) Application of computer system for food crop protection</p> <p>(1) Data collection, filing and processing the information necessary for pest management</p> <p>(2) Development of forecasting model</p> <p>(3) Pesticide registration</p> <p>2) Demonstration of pest control scheme</p> <p>3) Trial and construction of the integrated pest management of rice insect pests and diseases</p> <p>2. FIELD AND LABORATORY STUDIES FOR THE IMPLEMENTATION OF FORECASTING, SURVEILLANCE AND CONTROL OF INSECT PESTS, DISEASES AND RATS OF RICE AND PALAWIJA MAINLY SOYBEAN</p> <p>1) Brown planthopper (BPH)</p> <p>(1) Study on population dynamics</p> <p>(2) Study on biotypes</p> <p>(3) Construction of forecasting model and surveillance system</p> <p>(4) Development of control and management system</p>					

	'87/'88	'88/'89	'89/'90	'90/'91	'91/'92
2) Green leafhopper (GLH) and tungro disease (1) Study on population dynamics (2) Analysis of RTV-transmission process by GLH (3) Construction of forecasting model and surveillance system (4) Development of control and management system					
3) Rice diseases (1) Epidemiological studies of rice blast (2) Study on races of rice blast fungus (3) Epidemiological studies of other diseases (4) Development of forecasting system and control measures					
4) Rat (1) Study on taxonomy and biological characteristics (2) Study on population dynamics (3) Analysis of rat damage (4) Development of forecasting and control system					
5) Palawija mainly soybean pests (1) Surveillance of key pests					

	'87/'88	'88/'89	'89/'90	'90/'91	'91/'92
(2) Study on population dynamics					
(3) Construction of forecasting model and surveillance system					
(4) Development of control measures					
3. IMPROVEMENT OF PESTICIDE ANALYSIS					
1) Study on composition of pesticide formulation					
2) Establishment of safety use of pesticide					
4. OTHER ACTIVITIES					
1) Exchange of information, specimens and reports					
2) Advice on training for food crop protection staff and workers					
3) Others					

	'87/'88	'88/'89	'89/'90	'90/'91	'91/'92
<u>JAPANESE CONTRIBUTION</u>					
1. ASSIGNMENT OF EXPERTS					
1) Long-term assignment					
(1) Team leader					
(2) Experts					
Entomologist					
Entomologist					
Plant pathologist					
Plant protection specialist					
(3) Coordinator					
2) Short-term assignment					
Short-term experts in the related fields may be dispatched when necessity arises.					
Several (2-4) numbers of personnel a year					
2. ACCEPTANCE OF INDONESIAN PERSONNEL IN JAPAN					
3. PROVISION OF MACHINERY AND EQUIPMENT					

	'87/'88	'88/'89	'89/'90	'90/'91	'91/'92
<u>INDONESIAN RESPONSIBILITIES</u>					
1. ASSIGNMENT OF COUNTERPARTS AND ADMINISTRATIVE PERSONNEL					
1) Head of the Project					
2) Counterpart to the Japanese experts					
3) Laboratory assistant					
4) Field workers					
5) Clerical and service personnel					
2. LAND, BUILDING AND OTHER INCIDENTAL FACILITIES					
3. ALLOCATION OF NECESSARY OPERATIONAL BUDGET					

2. 調査団派遣実績

(1) 長期調査員	1980年 1月31日～ 2月29日
(2) 実施協議チーム	1980年 6月 9日～ 6月23日
(3) 計画打合せチーム	1981年 9月22日～10月 6日
(4) 巡回指導チーム	1983年 1月16日～27日
(5) 巡回指導チーム	1984年 1月29日～ 2月 9日
(6) 評価調査チーム	1985年 1月17日～28日
(7) 計画打合せチーム	1985年 5月21日～27日
(8) 評価調査チーム	1986年11月16日～29日
(9) フェーズⅡ計画打合せ・巡回指導合同調査団	1987年12月12日～23日
(10) フェーズⅡモデルインフラ整備事業実施設計調査団	1987年12月18日 ～1988年 1月26日
(11) フェーズⅡ巡回指導調査団	1990年 1月29日～ 2月 9日
(12) フェーズⅡ巡回指導調査団	1991年 3月26日～ 4月 7日
(13) フェーズⅡ評価調査団	1991年11月19日～30日

3. 調査団リスト

(1) 長期調査員

発生予察	奈須 壮兆	農林水産省農業技術研究所 病理昆虫部昆虫発生予察研究室長
昆虫	湖山 利篤	日本化薬株式会社嘱託
病理	道家剛三郎	クミアイ化学鉱業株式会社嘱託

(2) 実施協議チーム

団 長	梅谷 献二	農林水産省農業技術研究所昆虫科長
発生予察	奈須 壮兆	農林水産省農業技術研究所 病理昆虫部昆虫発生予察研究室長
昆虫	日高 輝展	農林水産省熱帯農業センター 研究第一部主任研究官
協力企画	南 正博	農林水産省経済局国際部 国際協力課技術協力第二係長
業務調整	米山 正博	国際協力事業団農業開発協力部 農業技術協力課副参事

(3) 計画打合せチーム

団 長	岩田 俊一	農林水産省農業技術研究所病理昆虫部長
発生予察	寒川 一成	農林水産省北陸農業試験場 環境部虫害研究室主任研究官
業務調整	大久保雅彦	国際協力事業団農業開発協力部 農業技術協力課参事

(4) 巡回指導チーム

総 括	桐谷 圭治	農林水産省農業技術研究所 病理昆虫部昆虫科長
植物病理	渡辺 康正	農林水産省農業技術研究所 病理昆虫部病理科細菌病第一研究室長
昆虫	岡田 斎夫	農林水産省農業研究センター 耕地環境部水田虫害研究室長
業務調整	斎藤 寛志	国際協力事業団農業開発協力部 農業技術協力課課長代理

(5) 巡回指導チーム

総 括	岩田 俊一	農林水産省農業環境技術研究所環境生物部長
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昆 虫	井上 齐	農林水産省九州農業試験場 環境第一部主任研究官
業務調整	斎藤 寛志	国際協力事業団農業開発協力部 農業技術協力課課長代理

(6) 評価調査チーム

団長(総括)	梶原 敏宏	農林水産省農業研究センター 総合研究官
昆 虫	岸野 賢一	農林水産省農業環境技術研究所 環境生物部天敵生物研究室長
農 薬	風野 光	農林水産省九州農業試験場 環境第一部虫害第二研究室長
研究管理	梅川 学	農林水産省農林水産技術会議事務局 研究調査官
業務調整	青木 正志	国際協力事業団農業開発協力部 農業技術協力課課長代理

(7) 計画打合せチーム

団 長	梅谷 献二	農林水産省農業研究センター病害虫防除部長
研究管理	日高 輝展	農林水産省農業環境技術研究所 昆虫管理科昆虫行動研究室長
業務調整	松本 征吾	国際協力事業団農業開発協力部農業技術協力課

(8) 評価調査チーム

団長(総括)	梅谷 献二	農林水産省農業研究センター病害虫防除部長
昆 虫	日高 輝展	農林水産省農業環境技術研究所 昆虫管理科昆虫行動研究室長
植物病理	加藤 肇	農林水産省農業環境技術研究所 環境生物部細菌分類研究室長
研究管理	内山 泰孝	農林水産省熱帯農業研究センター 研究第一部主任研究官
業務調整	梅崎 路子	国際協力事業団農業開発協力部農業技術協力課

(9) フェーズⅡ計画打合せ・巡回指導合同調査団

総 括	梅谷 献二	農林水産省農業研究センター総合研究官
畑 作	五十嵐孝典	農林水産省農業環境技術研究所環境資源部長

水田昆虫	日高 輝展	農林水産省農業環境技術研究所 環境生物部昆虫行動研究室長
畑作昆虫	内藤 篤	農林水産省農業研究センター 病害虫防除部畑虫害研究室長
植物病理	西山 幸司	農林水産省農業環境技術研究所 環境生物部細菌分類研究室主任研究官
研究管理	高沢 寛	農林水産省農林水産技術会議事務局 国際研究課課長補佐
業務調整	梅崎 路子	国際協力事業団農業開発協力部農業技術協力課

(10) フェーズⅡモデルインフラ整備事業実施設計調査団

総括	岩井 孝道	(財)日本農業土木総合研究所 調査研究第二部主任研究員
圃場設計	井関 善民	(株)日本農業土木コンサルタンツ
灌漑・排水 設計	久保田親典	(株)日本農業土木コンサルタンツ
業務調整	梅崎 路子	国際協力事業団農業開発協力部農業技術協力課

(11) フェーズⅡ巡回指導調査団

団長兼昆虫	岡田 斎夫	農林水産省北海道農業試験場生産環境部長
協力企画	西村 博	農林水産省経済局国際協力課協力企画官
植物病理	内藤 秀樹	農林水産省九州農業試験場地域基盤研究部 流行機構研究室長
業務調整	宮下 信夫	国際協力事業団農業開発協力部付

(12) フェーズⅡ巡回指導調査団

総括兼虫害	梅谷 献二	社団法人農林水産技術情報協会技術参与 元農林水産省果樹試験場場長
病害 協力企画	久原 重松 鈴木由紀夫	元農林水産省果樹試験場口之津支場病害研究室長 農林水産省経済局国際部国際協力課 プロジェクト企画係長
業務調整	鷺見 佳高	国際協力事業団農業開発協力部農業技術協力課

(13) フェーズⅡ評価調査団

団長（総括）	山本 茂樹	農林水産省経済局国際部国際協力課 海外技術協力室長
稲病理	八重樫博志	農林水産省東北農業試験場水田利用部 水田病害虫研究室長
昆虫	里見 綽生	農林水産省北陸農業試験場水田利用部 虫害研究室長
作物保護	行本 峰子	農林水産省農業環境技術研究所資材動態部 農薬動態科長
計画評価	飯田 次郎	国際協力事業団農林水産計画調査部 農林水産計画課

4. 派遣専門家リスト

フェーズI

(1) 長期専門家

担 当	氏 名	所 属	派 遣 期 間
リーダー兼 発生予察	奈須 壮兆	農水省農業環境技術研究所	1981. 3. 23 - 1987. 3. 31
昆 虫	日高 輝展	農水省熱帯農業研究センター	1981. 1. 26 - 1984. 5. 31
昆 虫	河部 進	農水省東北農業試験場	1981. 3. 18 - 1983. 3. 17
業務調整	松尾 三郎	—————	1982. 4. 30 - 1984. 4. 29
昆 虫	寒川 一成	農水省北陸農業試験場	1983. 3. 10 - 1987. 3. 31
昆虫兼 業務調整	沢田 裕一	京都大学農学部研修員	1984. 6. 6 - 1987. 3. 31
昆 虫	安田 壮平	農水省農業環境技術研究所	1984. 6. 13 - 1986. 6. 17
昆虫生態学	鈴木 芳人	—————	1986. 3. 1 - 1987. 3. 31

(2) 短期専門家

農業気象	本條 均	農水省果樹試験場	1982. 2. 15 - 1982. 4. 14
農 薬	柏 司	農水省林業試験場	1982. 3. 7 - 1982. 3. 20
植物病理	渡辺 康正	農水省農業技術研究所	1983. 1. 16 - 1983. 1. 18
機材据付	谷下 民雄	日本電気株式会社	1983. 2. 14 - 1984. 2. 23
植物病理	鶴町 昌市	農水省熱帯農業研究センター	1983. 11. 10 - 1984. 5. 9
農 薬	升田 武夫	農水省九州農業試験場	1983. 2. 16 - 1983. 4. 29
昆 虫	沢田 玄正	東京農業大学教授	1983. 8. 20 - 1983. 8. 29
網室組立	西川 真	株式会社守甲	1983. 9. 11 - 1983. 10. 25
網室組立	斎藤孝三郎	株式会社守甲	1983. 9. 11 - 1983. 10. 25
稲病害虫	大矢 慎吾	農水省九州農業試験場	1983. 12. 16 - 1984. 3. 15
農薬分析	金沢 純	農水省農業環境技術研究所	1984. 3. 20 - 1984. 5. 31
植物病理	大内 明	農水省北陸農業試験場	1984. 2. 2 - 1984. 4. 15
農薬分析	酒井 千明	名古屋大学	1984. 8. 22 - 1985. 2. 21
昆 虫	沢田 玄正	東京農業大学教授	1984. 9. 12 - 1984. 9. 23

植物病理	加藤 肇	農水省農業研究センター	1985. 3. 28 - 1985. 5. 10
機械据付	斎藤孝三郎	株式会社守甲	1985. 7. 22 - 1985. 8. 14
機械据付	西川 真	株式会社守甲	1985. 7. 22 - 1985. 8. 19
昆虫生態	中筋 房夫	岡山大学農学部	1985. 9. 25 - 1985. 10. 24
野鼠対策	村上 興正	京都大学理学部	1985. 12. 10 - 1986. 3. 15
植物病理	堀 真雄	農水省九州農業試験場	1986. 1. 14 - 1986. 3. 10
データ処理解析	久野 英二	京都大学	1986. 3. 7 - 1986. 4. 4
昆 虫	沢田 玄正	東京農業大学教授	1986. 4. 7 - 1986. 7. 6
病害の病原	内藤 篤	農水省農業研究センター	1986. 4. 7 - 1986. 6. 6
野鼠対策	村上 興正	京都大学理学部	1986. 7. 27 - 1986. 9. 15

フェーズII

(1) 長期専門家

担 当	氏 名	所 属	派 遣 期 間
リーダー	奈須 壮兆		1987. 4. 1 - 1992. 3. 31
昆虫兼 業務調整	沢田 裕一		1987. 4. 1 - 1992. 3. 31
昆虫生態学	鈴木 芳人		1987. 4. 1 - 1991. 3. 31
稲病理	鈴木 静夫		1987. 4. 22 - 1992. 3. 31
昆 虫	平野 耕治		1988. 4. 8 - 1992. 3. 31

(2) 短期専門家

野鼠対策	村上 興正		1987. 7. 30 - 1987. 9. 12
			1988. 7. 28 - 1988. 9. 12
			1989. 3. 10 - 1989. 6. 28
			1989. 10. 31 - 1989. 12. 15
			1990. 4. 10 - 1990. 5. 25
			1991. 4. 10 - 1991. 7. 31
コンピュータ	山村 光司		1988. 4. 8 - 1988. 6. 8
施工管理	久保田親典		1988. 7. 12 - 1988. 12. 23
施工管理	大里 安		1988. 8. 10 - 1988. 11. 7

植物病理	脇本 哲	1989. 3. 30 - 1989. 4. 14
虫 害	藤條 純夫	1989. 9. 12 - 1989. 9. 30
農薬分析	永吉 秀光	1990. 4. 10 - 1990. 5. 8
農薬分析	内藤 久	1991. 4. 22 - 1991. 5. 21
大豆病虫害	小西 和彦	1991. 8. 21 - 1991. 9. 15
コンピュータ	宮井 俊一	1991. 11. 20 - 1991. 12. 25

5. 研修員リスト

フェーズ I

研修科目	氏名	研修期間
作物保護	Zauhari	1981. 9. 7 - 10. 2
"	Radjijo A.	"
"	Hamid	"
"	Satta	1983. 3. 29 - 5. 27
発生予察	Gaib S.	1982. 10. 22 - 1983. 3. 31
作物保護	Hardjo	1983. 10. 8 - 11. 8
稲病害発生予察	Kamal	1983. 11. 8 - 1984. 2. 23
"	Budiyanto	"
農薬品質管理	Renteng	1983. 10. 25 - 1984. 2. 8
害虫防除	Hendrawati	1984. 6. 13 - 12. 26
稲病害発生予察	Sukanto	"
作物保護	Widiarta	1984. 6. 20 - 12. 26
コンピュータ	Antoinnette	1984. 7. 27 - 12. 26
害虫	Indraningsih	1985. 6. 30 - 12. 24
発生予察	Resamsi	"
農薬分析	Sutripriasso	"
稲病害	Mustofa	"
昆虫分類学	Siwi	1985. 9. 26 - 10. 26
日本語専修	Israwan	1985. 10. 26 - 1986. 4. 29
"	Cahyaniati	"
ツングロウイルス	Raga	1986. 5. 15 - 11. 30
昆虫生態	Adhisardjito	1986. 5. 27 - 11. 30
発生予察	Sembiring	"
農薬	Natanegara	"
日本語専修	Priyono	1986. 10. 2 - 1987. 3. 31
"	Andayanti	"

フェーズII

研修科目	氏名	研修期間
日本語専修	Ellen B.	1987. 10. 2 - 1988. 5. 31
視 察	Hudiya	1988. 3. 29 - 4. 20
"	Astika	"
"	Laksono	"
"	Belman S.	"
稲病害	Ruswandi	1988. 6. 1 - 12. 24
コンピュータ	Djoned A. S.	1988. 9. 22 - 1989. 3. 13
視 察	Sukmana	1988. 11. 12 - 11. 20
"	Wiraatmadja	"
"	Pabinru	"
"	Satta Ws.	"
日本語専修	Siswanto	1989. 3. 31 - 4. 7
稲病害	Zaenuddin	1989. 12. 1 - 1990. 3. 31
日本語専修	Ugelta	1989. 9. 28 - 1990. 5. 28
野鼠対策	Harsiwi T.	1990. 3. 1 - 5. 17
トビイロウンカ	Manjas	1990. 3. 18 - 11. 17
稲耕作	Anik K.	1991. 3. 4 - 1992. 1. 25
農 薬	Supardjilah BSc.	1991. 9. 10 - 1992. 3. 17
"	Hasri	"
ツングロ病	Aryawan	1991. 9. 23 - 1992. 3. 29

6. 主要供与機材リスト

フェーズI

・1980年度

ジープ、オートバイ、マイクロバス、コピー機、オーバーヘッドプロジェクター、スライドプロジェクター、空調機、除湿器、冷蔵庫、発電機、上皿電子天秤、スライド作成機、百葉箱、万能生物顕微鏡、ズーム式実体顕微鏡、全自動写真撮影装置、定温乾燥機

・1981年度

ジープ、オートバイ、高速液体クロマトグラフ、液体クロマトグラフ、ガスクロマトグラフ、ミニレーザー溶接切断装置、昆虫吸虫行動解析装置、迅速乾燥装置、インキュベーター、血液専用保冷库、小型純水装置、カールフィッシュ水分計、微量直示天秤

・1982年度

ジープ、オートバイ、バン、パーソナルコンピュータ、複写機、ビデオカセットレコーダーセット、8ミリカメラ、8ミリ映写機、双眼解剖顕微鏡、緑葉面積計、耕運機、恒温室、ドラフトチャンバー、実体顕微鏡、写真撮影装置、インキュベーター、電子天秤、網室

・1983年度

オートバイ、プレハブ倉庫、昆虫標本戸棚、半自動噴霧器、稔実歩合測定器、ミニチュア脱穀機、自記微風向風速計、赤外分光光度計、薄層クロマトスキャナー、実験用洗浄器、空気洗浄器デシケーター、採光式昆虫飼育装置

・1984年度

車両関係スペアパーツ類、実体顕微鏡、上皿直示天秤、P.H.メーター、電子式水分計、水素発生装置、原子吸光光度計、データ処理装置、示差屈折計検出器、高速液体クロマトグラフ、万能式大型恒温機

・1985年度

ニッサンパトロールスペアパーツ、微小昆虫等写真撮影装置、落射蛍光装置、採光式昆虫飼育装置、万能式大型恒温機、高速液体クロマトグラフ、示差屈折計検出器、分光蛍光スペクトロモニタ、水素発生装置、原子吸光光度計、紫外分光光度計検出器、実体顕微鏡、サンプルびん

・1986年度

オートバイ、パソコンシステム、コピー機、タイプライター、ラット繁殖用ケージ、吸虫装置、スクリー管、プレハブ建材、他

フェーズII

表-4 参照

表-4 フェーズII 機材供与実績

Appendix 3

LIST OF EQUIPMENT PROVIDED BY JAPAN

		Fiscal Year				
		1987	1988	1989	1990	1991
Amount			64	63	13	39
(million yen)		34				(Estimate)
Total		213				213
(Main Equipment)						
Vehicle, Computer system, Stabilizer, Sole, Inoculate, Incubator, Automatic drying, Sterilizer, Glass incubator, Electric incubator, Uniformity inoculation, Air conditioner, Disease resist. test apparatus, Binocular microscope, Rat fence, Scientific book, etc.	Jeep, Motorcycle, Drying apparatus model, Balance Model, Stereo microscope, Behaviour meter model, Solar power Condition, Camera, Laboratory Unit, Portable pH meter, Voltage Stabilizer, Vacuum freezing dryer, Personal Computer, etc.	Consentration Meter, Video system, Receiver, Microscope, Automatic recording, Hygrothermometer, Full automatic camera, Perfection desicator, Personal computer, Jeep, Motorcycle, Sola stabilizer, Farmcop, etc.	Concentration Meter, Video system, Receiver, Microscope, Automatic recording, Hygrothermometer, Full automatic camera, Perfection desicator, Personal computer, Jeep, Motorcycle, Sola stabilizer, Farmcop, etc.	Vehicle, Motorcycle, Rat trapping, Photo-copy machine, Stereoscopic microscope, Electric balance, Temp. & hum. meter, Portable recorder, thermograph, Large sledge, Microtomers, Thermo-hygrograph, Camera, Personal computer, Power supply model, etc.	Vehicle, Motorcycle, Rat trapping, Photo-copy machine, Stereoscopic microscope, Electric balance, Temp. & hum. meter, Portable recorder, thermograph, Large sledge, Microtomers, Thermo-hygrograph, Camera, Personal computer, Power supply model, etc.	Colony counter, Te-Her contiuance injector, Dew meter, Area meter, Drying machine, Autothermohygrographs, Stereo microscope, Digital pH meter, Personal computer, Refrigerator, Photo copy machine, etc.

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