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SECONDARY FOOD CROPS DEVELOPMENT PROJECT EXTENSION
TERMS OF REFERENCE FOR TECHNICAL ASSISTANCE

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List of Abbreviations

AID	=	Agency for International Development
Bappenas	=	National Planning Agency
Bimas	=	"Mass intensification"—Extension Program
Bulog	=	National Logistics Agency
COP	=	Chief of Party
DGFC	=	Directorate General of Food Crops
GOI	=	Government of Indonesia
MIS	=	Management Information System
MOA	=	Ministry of Agriculture
PIU	=	Project Implementation Unit
SFCDP	=	Secondary Food Crops Development Project
USAID/I	=	US Agency for International Development/Indonesia

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A. Project Characteristics and Objectives

The Secondary Food Crops Development Project (SFCDP) was initiated in May 1983 for an initial five-year period. The objective was to support the Government of Indonesia's (GOI) food crop diversification strategy by assisting the Ministry of Agriculture (MOA) to increase secondary food crop production. This was to be achieved through technical assistance, policy and program analysis, training, technology transfer and the building of research and extension linkages. For these purposes, the Agency for International Development (AID) contributed one million dollars in grant funds and \$6.4 million in loan funds, while the GOI's contribution amounted to \$6.3 million. The project is being implemented in the Directorate General of Food Crops (DGFC) in the Ministry of Agriculture. Field work is being done in the three provinces of Lampung, South Sulawesi and East Java where 110 demonstration farms have been set up in the kabupatens of North Lampung, Bone and Ponorogo respectively. The SFCDP will be expanded during the extension period to include ten additional kabupatens located in the existing provinces, and to three new provinces.

In pursuit of the GOI's objective of food crop diversification, the Project focuses on:

- o Enhancing linkages between research and extension by expanding the role of demonstration farms to test economically viable technology packages, and by introducing more cost-effective and innovative extension and communication methods; and
- o Strengthening the capability of the Directorate of Food Crop Economics to undertake marketing and related policy work that will provide the analytical basis for diversification.

The technical assistance team will be responsible for: (1) the development of appropriate and effective extension-communication activities for technology transfer; and (2) the promotion of a favorable

agricultural and economic policy environment that is likely to provide farmers with the appropriate incentives to increase secondary crop production. In the first case, activities will include strengthening of research-extension linkages by encouraging research on demonstration farms and by setting up a pilot program to test and use various methods for effectively communicating messages from researchers to farmers. The policy analysis will assist decision makers and planners to create a favorable policy environment to induce farmers to adopt new mixes of food crops and to encourage investment in marketing support services. Market research studies will identify key marketing constraints and market opportunities for increased investment. Particular marketing problems, such as post-harvest quality improvements, will be addressed by specialized marketing surveys.

The objective of the extension-communications component is to demonstrate the effectiveness and cost-efficiency of employing mass communication strategies for conveying information to farmers. While demonstration farms and the training and visit methods of extension have been used successfully in the past, there is a need to test more innovative approaches that are also more cost-efficient. This is particularly important within the context of growing budget constraints. Moreover, recent changes, such as greater commercial orientation among farmers, higher literacy rates and the diffusion of mass media communications' infrastructure are favorable to the introduction of new extension methodologies.

The extension-communication component will provide "hands-on" technical assistance at the field level to identify the most effective and cost efficient means of communicating technology. The information on communication techniques can then be fed back up through the appropriate channels (1) to enable extensionists to design more effective communications programs for technology transfer, and (2) to enable research institutes to develop locally well-adapted, targetted, economic and sustainable technologies for secondary food crop development.

The economic and policy analysis activities will generate information about factors such as pricing or quality constraints likely to impede secondary crop development, supply/demand forecasting for major food crops and trade policy analysis. The technical assistance team will provide the analytical basis and methodology for improving communications and building linkages: (1) by transferring information from the farm level and agricultural markets to government decision makers; (2) by providing equal access to the information for all government agencies involved in decision making on a particular issue; and (3) by providing policy makers with sound analytical information on which to base their decisions that effect food crop development.

In order to accomplish these goals, both long and short-term technical assistance will be provided. The long-term technical assistance team which will be fielded by September 1, 1987 will consist of:

- o Chief of Party/Management Specialist
- o Economist/Policy Analyst
- o Econometrician/Marketing Specialist
- o Senior Agricultural Communication Specialist
- o Agricultural Communication Specialist

Additional needs for specialized technical assistance in areas such as post-harvest technology development, trade policy analysis, quality control analysis, etc. will be provided through short-term consulting arrangements. Short-term consultants will be fielded as the need arises.

B. Long-term Technical Assistance Requirements

1. Chief of Party/Management Specialist

a. Rationale and overall responsibilities

The Chief of Party (COP) will be directly responsible for managing the long-term technical assistance team, and for coordinating horizontally with the Indonesian counterpart Project Implementation Unit

(PIU), and vertically with the field administration, in close cooperation with counterparts in the PIU. The Chief of Party will also cooperate closely with the Indonesian Project Director and assist him, whenever necessary, in interpreting and applying USAID procedures and regulations for general and financial administration. He will also be responsible for jointly planning with the Project Director the kinds of short-term technical assistance required by the project, and for completing the required processes for timely delivery of short-term technical assistance.

The COP will work in cooperation with the Project Director to accomplish the following general objectives. Firstly, he will strengthen and consolidate the overall management and administrative structure of the project, including the training and the operational support components. Secondly, he will improve financial management by ensuring procedures are understood and followed at all levels of project implementation, and that mechanisms are in place to effectively monitor and account for funds. Thirdly, he will provide leadership in guiding project activities to address policy issues and communication strategies for technology transfer associated with the GOI's food crops diversification program. Finally, he will plan and develop new activities, including recruitment of short-term technical assistants as needed, and expansion into the new provinces.

b. Specific Tasks

The COP will coordinate all project activities with Indonesian collaborating agencies and personnel, and as appropriate, with other USAID and donor projects. He will supervise and coordinate the activities of all long- and short-term technical assistance personnel, training, and operational support components. Supervision of long-term personnel and project implementation activities will require periodic travel to field sites, and additional visits as necessary.

In order to improve project management the COP, with the help of an Administrative Assistant, will establish a computerized management information system (MIS). The MIS will be used to monitor project activities and to meet AID and GOI financial management and reporting requirements. In addition, he will maintain regular and close communication with the GOI and USAID, keeping them both full informed of project activities, progress and problems, both verbally and through quarterly written reports.

On the technical side, the COP will provide leadership in planning, implementing, monitoring and evaluating the policy studies and extension-communication activities. In cooperation with the other long-term technical assistants he will identify short-term technical assistance needs and make arrangements to secure the personnel approved by the GOI and USAID/I. He will also be responsible for providing logistical support for the short-term consultancies. He will report on project implementation through quarterly reports that include summaries of the reports provided by long and short-term personnel.

His administrative responsibilities in maintaining an office in Jakarta will include: the maintenance of a project revolving fund for disbursement and accounting of in-country expenditures; employment and supervision of authorized local hire administrative and support staff; and the management of local procurement in accordance with AID and GOI policies and regulations.

c. Qualifications

The COP should have the PhD degree in a relevant social science discipline or agriculture, with at least ten years' cumulative international experience (including two or more years in Asia, Indonesia experience preferred). He should have proven management capabilities, with direct experience in project and financial management, and familiarity with AID regulations and procedures. He should be

knowledgeable in the areas of communication, extension and economics. Excellent verbal and written communication skills, and at least basic computer skills will be required. The ability to communicate effectively with host country policy makers and professional staff, and to supervise technical assistance staff is also necessary. Fluency in Bahasa Indonesia or the capability to obtain fluency at FSI R2S2 or equivalent within six months of arrival at post is required.

d. Work site

The Chief of Party/Management Specialist will establish an independent Project Office in Jakarta, but will also maintain an office in the PIU, with the Project Director as his direct counterpart. He will travel to the field at regular intervals and as needed to supervise project implementation.

e. Duration of assignment

The duration of the assignment will be 33 months, beginning on or about 1 September 1987.

2. Economist/Policy Analyst

a. Rationale and overall responsibilities

The main functions of the Economist/Policy Analyst will be to work in collaboration with the Econometrician, their counterparts in the Directorate of Food Crop Economics, and in cooperation with other appropriate GOI agencies, to accomplish the following objectives. Firstly, he will continue and complete the planned economic and policy studies, and initiate new ones, as appropriate. Secondly, he will continue to build and develop collaborative linkages with the GOI agencies whose work is mutually beneficial. Thirdly, he will identify the needs for short-term consultants to do special economic and policy

studies. Fourthly, he will advise on appropriate training programs to improve the research and analytical skills of analysts in the Ministries of Agriculture (MOA) and Trade, and in Bulog.

b. Specific tasks

Under the general supervision of the COP and in collaboration with his counterparts at the Directorate of Food Crop Economics, the Economist/Policy Analyst will:

- o Plan and implement economic and policy studies on food crop diversification. Examples of the types of economic and policy analysis to be conducted include the following:
 - Studies of agricultural commodity prices and quality: Models will be developed to analyze price and quality data generated through direct surveys of consumers, millowners, traders, etc., the objective being to improve information about food crop demand characteristics. The information will be useful in identifying investment opportunities for value-added activities along the marketing chain from the farm-gate to the retail level.
 - Marketing studies to project food crop demand by quality levels. Quality factors will be analyzed and their influence on needed investments in post-harvest processing, milling, grading and storage assessed.
 - Trimester market information survey reports will be written based on short-term forecasts of food crop supply.
- o Assist Bulog to install and operate the model developed for the food crop supply/demand study. This would assist Bulog's routine policy analysis work associated with floor price monitoring.

- o Prepare summaries of the findings from the economic and policy studies for concerned GOI agencies and assist in presentation of results at official meetings and forums.
- o Develop additional proposals for economic and policy studies to be conducted in conjunction with teams of researchers from: Concerned and cooperating agencies including the MOA, Bulog, Trade and Bappenas; universities such as the University of Indonesia, Gajah Mada, etc; and private sector firms.
- o Assist in a technical capacity in the design and implementation of special related policy studies in the areas of trade policy analysis, linkage of macroeconomic factors to agricultural sector performance and short studies related to domestic investment in diversified agriculture. Also assist in the identification of short-term consultants that may be required from time to time to implement some of the studies.
- o Assist in developing training plans for officials and analysts at the Directorate of Food Crop Economics and other concerned agencies, including Bulog and Trade. He will submit such requests to the COP for further processing.
- o Plan and implement marketing studies to be conducted in the new project provinces as the extension proceeds. The studies would begin with rapid appraisals to be followed by more specialized studies as needs are identified and prioritized.
- o Assist the COP and the Project Director in meeting the technical, administrative and financial reporting obligations of the GOI and USAID/I as related to his own work.

c. Qualifications

The Economist/Policy Analyst should have the minimum of a Master's degree (Ph.D preferred) in Economics or Agricultural Economics with training and previous experience in agricultural sector analysis, economic policy analysis, marketing analysis and quantitative methods. Five years' cumulative developing country experience will be required with at least two years in Asia, preferably in Indonesia. The ability to work well with host country analysts and policy makers and to effectively communicate research results both verbally and in writing is necessary. Professional capability should be demonstrated by a record of publications and/or field reports. Fluency in Bahasa Indonesia, or capability to achieve fluency at the FSI R2S2 level or equivalent within six months of arrival is required.

d. Work site

The Economist/Policy Analyst will be located in the Directorate of Food Crop Economics and will work under the general supervision of the COP and in collaboration with his counterparts in the Directorate. He will spend up to one third of his working time in coordination with other GOI agencies. He will also travel to the field to conduct surveys, as necessary.

e. Duration of assignment

The duration of the assignment will be approximately 33 months beginning on or about September 1, 1987.

3. Econometrician/Marketing Specialist

a. Rationale and overall responsibilities

The Econometrician/Marketing Specialist will work in collaboration with the Economist/Policy Analyst, their counterparts in the Directorate of Food Crop Economics, and in cooperation with the

appropriate GOI agencies, to accomplish the following objectives. Firstly, he will continue and complete on-going economic and policy studies in the areas of food crop supply/demand, marketing, price policy analysis, etc. Secondly, he will assist in planning new studies, as needed, and build appropriate econometric models to conduct the analyses. Thirdly, he will participate in the process of building and developing collaborative linkages with concerned GOI agencies.

b. Specific tasks

Under the general supervision of the COP and in collaboration with his counterparts at the Directorate of Food Crop Economics, the Econometrician/Marketing Specialist will:

- o Update and extend the agricultural sector model for use in routine planning and policy analysis by concerned GOI agencies. Some of the ways in which the modelling will be extended is as follows:
 - Development of linkages to a macroeconomic model and the conduct of macro-model simulations;
 - Inclusion of other relevant commodities to expand the model; and
 - Endogenization of product prices in a programming model that will enhance the model's realism and put it in a general equilibrium framework.
- o Assist in the development of qualitative response models as part of the price and quality study.
- o Develop analytical models for analysis of comparative advantage through examination of factors such as effective rates of protection, domestic resource costs, etc.

- o Develop a trimester forecasting model for food crop supply to generate data for a market survey information report.
- o Assist in transferring the food crop supply/demand model to Bulog and Bappenas for their use. He will also provide instruction to the analysts of the two agencies in the use of the model.
- o Assist in the conduct of marketing studies when the project is expanded to the new provinces.
- o Provide training in econometrics and quantitative methods to analysts in cooperating GOI agencies.
- o Assist the COP and the Project Director in meeting the technical, administrative and financial reporting obligations of the GOI and USAID/I as related to his own work.

c. Qualifications

The Econometrician/Marketing Specialist should have the PhD degree in Economics or Agricultural Economics with training and previous experience in economic model building, statistical analysis and econometric techniques. The ability to communicate analytic results to policy makers is highly desirable. He should have five years' cumulative developing country experience with at least two years in Asia, preferably in Indonesia. He should have demonstrated professional capability through publications and/or field reports. Fluency in Bahasa Indonesia or capability to achieve fluency at the FSI R2S2 level or equivalent within six months of arrival is required.

d. Work site

The Econometrician/Marketing Specialist will be located in the Directorate of Food Crop Economics. He will spend up to one-third of his time working with other agencies. He will travel to the field as necessary to conduct surveys.

e. Duration of assignment

The duration of the assignment will be approximately 33 months beginning on or about September 1, 1987.

4. Senior Agricultural Communication Specialist

a. Rationale and overall responsibilities

The general objective of the technical assistance provided by the two Communication Specialists is to establish pilot projects that demonstrate the effectiveness and cost-efficiency of alternate methods of technology transfer via mass communications and other techniques. Thus, the main function of the Senior Agricultural Communication Specialist will be as follows. Firstly, he will collaborate with his counterpart to design and implement low-cost effective communication-extension activities on a pilot basis in the East Java kabupatens. Secondly, he will monitor these activities and evaluate the impact of the new technologies diffused under the project. Thirdly, he will provide guidance to the Agronomist/Communication Specialist to design an appropriate and effective pilot intervention for technology diffusion in one or more of the new provinces, coordinating activities with the appropriate research institutes and counterparts.

b. Specific tasks

The Senior Agricultural Communication Specialist will work under the supervision of the COP, and in collaboration with his Indonesian counterpart, with the assistance of the Agronomist/Communication Specialist as necessary, to accomplish the following tasks:

- o Plan and implement a pilot communication program in East Java to develop, test and demonstrate the integrated use of multi-channel communication strategies to increase the coverage and impact of technology transfer programs. The specific procedures include the following:
 - Initial investigation in the form of a baseline survey to assess: (1) farmer behavior, socioeconomic characteristics, receptivity to change and responsiveness to various media messages; and (2) technical agricultural factors such as available farm technologies, economic viability of technologies, infrastructure support, etc;
 - Development of an appropriate and well-targetted design for a communications support program based on the results of the resource assessment conducted in the initial period. Thus, it would be expected that a dryland farming area with less developed communication' infrastructure would require different technological messages and different media communication techniques than, for example, a wetland area with a developed mass communication system and widespread radio or TV availability;
 - Implementation of the communications support program within approximately one year of start-up;

- Training of counterparts at all stages of the pilot activity from interviewers in the initial phase through the implementation phase which may require, for example, specialized training in radio broadcast, or video preparation techniques;
 - Monitoring and feedback on a continuous basis in order to improve and adapt implementation techniques to make them increasingly effective in delivering messages to farmers; and
 - Conduct of an impact evaluation to assess the effect upon beneficiaries including farmers, participant extension workers, and others involved.
- o Provide leadership in institutionalizing the improved communication support program tested through the pilot intervention by:
 - Assisting in the systematic adaptation and extension of the program to the selected new province in the SFCDP, in cooperation with the Agronomist/Communication Specialist and their counterparts; and
 - Assisting in planning and conducting in-service training for collaborating institution staff.
 - o Provide leadership in cooperating with research institutes, private sector channels and others, as appropriate, in improving networks and linkages among them to identify and assess technologies for dissemination to farmers.
 - o Identify short-term technical assistance needs in extension-communication in consultation with collaborating staff and communicate these to the COP for further processing.

- o Assist the COP and the Project Director in meeting the technical, administrative, and financial reporting obligations of the GOI and USAID/I, in relation to his own work.

c. Qualifications

The Senior Agricultural Communication Specialist should have the PhD degree in one of the following fields: communication, agricultural extension and rural sociology with considerable practical experience in the other fields. He should have five years' overseas experience (at least two of which should be in Asia, preferably in Indonesia). Excellent verbal and written communication skills will be required. Fluency in Bahasa Indonesia or capability to obtain fluency at FSI S2R2 or equivalent within six months of arrival at post will be required.

d. Work site

The Senior Agricultural Communication Specialist will be headquartered in the Sub-rectorate of Food Crops (Extension) at Surabaya, East Java, or at such other location as may be mutually agreed between the GOI and USAID/I. He will work in close association with a national counterpart to be assigned by the Provincial Director of Food Crops and the Project Director, and in coordination with relevant groups such as the Provincial Agricultural Extension Cooperation Forum.

e. Duration of assignment

Duration of the assignment will be 33 months, beginning on or about 1 September 1987.

5. Agronomist/Communication Specialist

a. Rationale and overall responsibilities

The general objectives of SFCDP technical assistance provided by the Agronomist/Communication Specialist are (1) to establish a pilot communication extension project in one of the newly-selected expansion provinces and (2) to advise on agronomic issues, as necessary, both at his own project site and in other project regions. His functions will be as follows. Firstly, he will work under the guidance of the Senior Agricultural Communication Specialist and his counterparts to design and implement low-cost effective communication-extension activities on a pilot basis in one of the newly-selected provinces. Secondly, he will monitor these activities and evaluate the impact of the new technologies diffused under the project. Thirdly, he will advise the Senior Agricultural Communications Specialist and other project and collaborating institution staff on all agronomic matters related to the project.

b. Specific tasks

The Agronomist/Communication Specialist will work under the general supervision of the COP and the direct guidance and supervision of the Senior Agricultural Communication Specialist. He will collaborate with his Indonesian counterparts to accomplish the following tasks:

- o Plan and implement a pilot communication program in a newly-selected province to develop, test and demonstrate the integrated use of multi-channel communication strategies to increase the coverage and impact of technology transfer programs. The specific procedures to be followed are described in detail in Section 4b on p. 13 and 14.

- o Advise on agronomic problems related to the project at his field site and throughout the project as needed. He will travel to the other project sites to give agronomic advice for no more than 33 percent of his time.
- o Assist in planning and conducting in-service training for collaborating institution staff.
- o Provide leadership in cooperating with research institutes, private sector channels and others, as appropriate, in improving networks and linkages among them to identify and assess technologies for dissemination to farmers at his field site.
- o Identify, at his field site, short-term technical assistance needs in extension-communication in consultation with collaborating staff, and communicate these to the COP through the Senior Agricultural Communication Specialist for further processing.
- o Assist the COP and the Project Director in meeting the technical, administrative and financial reporting obligations of the GOI and USAID/I, as related to his own work.

c. Qualifications

The Agronomist/Communication Specialist should have the minimum of a Master's degree (Ph.D preferred) in one of the following fields: agronomy, communication or agricultural extension, with considerable practical experience in the other two fields. He should have at least five years' developing country experience with at least two years in Asia, preferably in Indonesia. Good verbal and written communication skills will be required. Fluency in Bahasa Indonesia or capability to obtain fluency at the equivalent of FSI S2R2 level within six months of arrival at post is also necessary.

d. Work site

The field-based Agricultural Communication Specialist will be headquartered in the Subdirectorate of Food Crops (Extension) in a province selected for the second pilot communication activity. The site will be mutually agreed upon by the GOI and USAID/I. He will work in close association with a national counterpart to be assigned by the Provincial Director of Food Crops and the Project Director, and in coordination with relevant groups such as the Provincial Agricultural Extension Coordination Forum. He will travel to other project field sites to advise on agronomic problems for no more than 33 percent of his time.

e. Duration of assignment

Duration of the assignment will be about 27 months, beginning on or about 1 March 1988.

C. Short-Term Technical Assistance Requirements

1. Economic and policy studies (15 person months)

There are three major areas of the long-term research work in the Directorate of Food Crop Economics that could benefit from supporting studies done by short- or medium- term consultancies. They include trade policy analysis, linkage of macroeconomic factors to agricultural sector performance and studies related to domestic investment in diversified agriculture. The analysts have already undertaken trade analysis as part of the Supply/Demand study. It would be useful to have a short-term consultant advise in the use of trade modelling tools and forecasting techniques. In addition, in the interests of market development for Indonesian agricultural products, a series of trade reports on a variety of commodities such as grains, oil seeds, horticultural products, etc., would be helpful.

A second area that deserves attention and could benefit from short-term technical assistance is that of macro-economic linkages to agricultural sector performance. Very little work has been done in this area so far, yet recent policy changes such as the currency devaluation in 1986 can have a significant impact on agricultural production. A short-term consultant of considerable stature in economics would be needed initially to demonstrate the importance of intersectoral macroeconomic/agricultural sector studies. This consultancy could be followed up by a series of short-term consultants to conduct these studies.

Finally, there is a need for studies that examine issues related to domestic investment promotion and constraints to investment. This includes licensing practices, monopolies (that exist on even simple technologies), financing arrangements for small-scale agribusiness development, and others. Indonesian firms could be contracted for this work.

2. Agricultural communication and extension (10 months)

Short-term technical assistance will be required in disciplines such as social marketing, behavioral science and communication technology to augment the work of long term specialists and their Indonesian counterparts. While some of these short-term needs can be readily identified in advance, as for example, assistance in designing baseline surveys or in conducting the impact evaluations, it will be useful to identify other more specific needs as the project develops. Thus, a particular extension center may require technical assistance in improving the quality of their information brochures through better photography or layout, or another may need help in developing more family-oriented scripts for radio broadcasts in the region. The flexibility in responding to such specialized needs through short-term technical assistance will greatly enhance project effectiveness.

3. Other specialized technical assistance (15 months)

There are continuing technical assistance needs on the SFCDP for specialized experts on various aspects of agricultural production and marketing. A particular concern is the expansion of the diversification program into dryland areas which requires development of environmentally-adapted crop production technologies in order to increase crop yields in these regions. While much of the adaptive research for this purpose is a long-term effort which is properly the responsibility of Indonesia's research institutes, short-term technical advice may be valuable from time to time on special problems such as seed multiplication or a particular plant disease. In order to achieve maximum flexibility, the short-term technical assistance needs in this area should be determined during the course of project implementation with the advice and cooperation of the long-term technical assistance team, the GOI and USAID/I.

A second major area of concern is for improved marketing of secondary food crops, the objective being to enhance farmer incomes and employment by introducing changes along the marketing chain from the farm-gate to the retail level. The issue is being addressed at the policy level via the marketing studies on the SFCDP but there is also a need for marketing specialists in the areas of quality control and post-harvest technologies. A post-harvest technologist may be required to monitor technologies employed by farmers and the effects of employing particular technologies on crop quality, crop losses, etc. The post-harvest technologist would identify the constraints to farmer adaption of improved technologies and propose new methods for improved post-harvest handling and processing. Other experts may be needed, for example, to advise on quality control or investment opportunities in agro-processing activities, etc. Once again, short-term technical assistance needs in the areas of post-harvest activities and marketing should be determined during the course of project implementation.

Annex 1List of People Met

Mr. Achmad Fuadi	Director, Food Crop Planning and Programming, DGFC
Mr. Bambang	Head, Extension Section, Dinas Pertanian, Surabaya
Dr. Budiman Notoatmodjo	Head of Foreign Cooperation
Dr. John Davies	Health Communications and Child Social Marketing for Child Survival
Mr. John S. Hamilton	General Manager, Seed Division PT. Cargill, Indonesia
Dr. Doug Hedley	Winrock International, Agriculture Planning Project
Ir. Hidayat	Director, Extension Directorate General Food Crops (DGFC)
Mr. Imam Muslim	SFCDP Officer, Surabaya
Mr. Kadiono	Head, Agricultural Service for Food Crops, East Java
Mr. Nasrun Hasibuan	Directorate of Food Crops Economics
Mr. Rasyid Ibrahim	Secretariat DGFC
Ir. Rifai	Chief of Planning Bureau, BIMAS
Dr. A. William Ruscoe	Agronomist, SFCD Project
Mr. Saddik Ismail	Marketing Information Service Bulog
Dr. Saroso	SFCD Project Director, DGFC
Ir. Soegijanto	Head, Planning Division, Dinas Pertanian, Surabaya
Mr. Soekadis	Head, Production Section Dinas Pertanian, Surabaya
Ir. Soelbijati Soebroto	Director, Directorate of Program Development, DGFC
Mr. Soepani	Marketing Information Service Bulog
Mr. Soeparman	Head, Extension Division, Dinas Pertanian, Surabaya

Mr. Soetadji	Head, Production Division, Dinas Pertanian, Surabaya
Mr. Soetadji	Director of BLPP, Nganjuk
Mr. Soetarjadi	Head, Farm Economics Division, Dinas Pertanian, Surabaya
Mr. Soewito	Retired Extension Officer, BIP Surabaya
Mr. Suciptadi Sutarman	Directorate of Food Crop Extension
Mr. Sugianto Brotosusanto	Directorate of Food Crop Economics
Mr. James Suliman	President Director, Pioneer Seeds (PT Bibit Unggul)
Mr. Steven R. Tabor	Economist, SFCD Project

Annex 2Summary of Meeting at Directorate of Food Crops, 28 April 1987

In attendance at the meeting were: S. Soelbijati, Saroso, Budiman, S. Tabor, W. Ruscoe, S. Sutarman, N. Hasibuan, R. Ibrahim, A. Waryadalam, A. Fuadi, E. Tout, H. Ray and R. Mehra.

After the preliminary introductions were made by Ir. Soelbijati, the consulting team presented its proposals for a five person long-term technical assistance team to assist the GOI in implementing the SFCDP extension. The team would consist of:

1. Chief of Party/Management Specialist
2. Economist/Policy Analyst
3. Econometrician/Marketing Specialist
4. Senior Agricultural Communication Specialist
5. Agronomist/Communication Specialist

The alternatives for short-term technical assistance to supplement this long term assistance was discussed. At the request of Dr. Budiman, the team presented a diagrammatic representation of the relation between the proposed technical assistance and the GOI's goals for its food crop diversification program. It was clarified that the proposed technical specialists would help focus project efforts on its strengths in implementation: the strengthening of research-extension linkages and the economic and policy analysis work. The need for a Chief of Party for management and coordination of a larger team was also explained.

After additional discussion, Dr. Suroso requested consideration for inclusion of two agronomists (instead of just one) on the long-term team, one to be stationed in Sumatra and the other in NTB or NTT. As only five long-term specialists could be provided given the resources, he suggested the Econometrician be employed on a short-term basis. After discussion

of the pros and cons, it was mutually agreed that it would be best to remain flexible by considering the alternative of employing the Econometrician long-term for at least another year so that he could complete the work he had already started and which was progressing successfully. The substitution of a second agronomist on the long-term team could be reconsidered when the expansion to the new provinces got underway.