### CHAPTER 16 SURVEY FOR PARTICIPATORY PLANNING

### 16.1 General

Participatory planning (PP) focusing on the following objectives was adopted in the Feasibility Study (F/S) of the priority irrigation schemes.

- a) Formulation of development programmes enabling the positive participation of beneficiaries.
- b) Formulation of sustainable development programmes based on the Participatory Planning (PP).

The survey for PP was conducted based mainly on the Project Cycle Management (PCM), which has been developed by the Foundation for Advanced Studies on International Development (FASID), Japan.

**Outline of Participatory Planning** Participants/ Process **Purposes** Executing To determine who is involved the Participants of a) Participation Analysis problem and who resolves the PCM workshop PCM Workshop problem(Set up Target Group) To prepare Problem Tree by seting up Participants of core problem and clarify its cause and PCM workshop b) Problem Analysis result To prepare Objectives Tree based on Participants of c) Objectives Analysis Problem Tree by clarify its objectives PCM workshop and means for solving To select potential approach based on Participants of d) Project Selection PCM workshop the Objectives Tree To summarise Preliminary Project Study Team Design Matrix (PDM) based on the e) Preliminary PDM selected potential approch and Public Meeting reviewing practical contents of the f) Evaluation of Preliminary The preliminary PDM is evaluated its Farmers PDM by Farmers possibility of implementation by farmers Study Team Based on the farmers' evaluation, PDM g) PDM Formulation emploied in the F/S is formulated Practical implementation plan of PDM Study Team h) Action Plan Formulation is formulated

\* Project Design Matrix (PDM): Summarised in table with core components of the Project based on the selected approaches

The method is similar to the Logical Framework Approach (LFA) developed by the Norwegian Agency for Development Co-operation (NORAD), which has been introduced to Sri Lanka at the beginning of the 1990s. The Participatory Planning of the PCM method is normally holding workshop by Participants who are related to project and the following procedures are taken as items in the table a) Participation analysis, b) Problem analysis, c) Objectives analysis, d) Project selection, e) PDM formulation and f) Formulation of Plan of Operation. The process a) to d) is carried out by workshop participants and processes g) and h) are done by the Study Team, because of technique of formulating programme in this Feasibility Study. However the PDM, which is important to be a base of planning, is evaluated by farmers in the irrigation schemes after the Study Team formulate the preliminary PDM.

The process a) to g) is described in this chapter and the formulation of plan of action of h) is in Chapter 17.

### 16.2 PCM Workshop

### 16.2.1 Outline of PCM Workshops

The workshops are held in all the priority irrigation schemes at ten locations as shown in the table considering the commanding area and the position of the villages. The participants of the workshops are selected equally from organisation and personnel concerned<sup>12</sup>.

### Participants of PCM Workshop

- a) Leaders of Farmers' Organisations
- b) Beneficiaries (farmers)
- c) Leaders of community based organisations (Women's Society, Youth Club, Death Donation Society, etc.)
- d) Farmer Animators
- e) Institutional Development Officer (RPM Office, IMD)
- f) Manager of Farmers' Organisation (officer of DOI)
- g) Grama Niladhari

### Resource Persons

- h) Officers of the IMD, DOI, DOA and DAS
- i) Divisional Secretaries (DSs)

Among these participants, a) to g) are actually carrying out the workshop and the resource persons h) and i) are only to contribute their technical and economical information to the participants. It was considered that the social status of officers and farmers differed largely and discussion with equal status was not possible, if the officers had joined into discussion as Participants. Their presence in the workshop made it possible to share common ideas of the development problem and objectives.

The participants are selected by the Study Team on discussions with organisations concerned with the Project identified in the implementation plan of the Master Plan. Organisations discussed are FO leaders, Farm Animators, Grama Niladharis, IMD, DOI, ASCs and DSs.

The participants of PCM workshops are shown below and total participants at the PCM workshops in all the irrigation schemes were 490 persons and consisted of 352 males and 138 females.

Attendees of PCM Wo
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	1	1									
	Total Attendees										
	p/ lo.		Participants of PCM Workshops								
Schemes	sho	ces	rs	ers	s	qn	*		Total		Grand
Schemes	Workshop/ Location/No	Resources Persons	Animators	FO leaders & Members	Women's Association	Youth Club	Others*	Male	Female	Total	Total
	a	8	5	16	-	-	8	24	5	29	37
Nachchaduwa	b	8	3	13	-	-	4	16	4	20	28
Major Scheme	С	7	5	32	1	-	12	29	21	50	57
	d	14	6	49	8	-	6	42	27	69	83
Palukadawela	e	16	5	43	-	-	17	53	12	65	81
Major Scheme	f	12	-	65	-	-	11	67	9	76	88
Periyakulama Medium	g	9	1	35	2	5	6	30	19	49	58
Mahananneriya Medium	h	7	4	15	9	-	8	20	16	36	43
Mahananneriya	i	12	3	33	7	2	10	44	11	55	67
Minor Schemes (Cascade)	j	7	2	32	3	2	2	27	14	41	48
Total	10	100	34	333	30	9	82	352	138	490	590

Others \*: Including Grama Niladhari, Samurudi Animator, Member of Dead Donation Society, Manager of Farmers' Organisation (officer of DOI)

Before the commencement of the workshop, the Study Team explained the objectives of PP and methodology of the PCM workshops to the participants, together with the background and objectives of the Project<sup>13</sup>.

### 16.2.2 Results of PCM Workshop

The results of "Participation analysis", "Problem analysis", "Objectives analysis" and "Project selection" carried out in the workshops are as follows and Problem tree and Objectives tree are in Appendix - N.

### (1) Participation Analysis

Major organisations and personnel involved in the Project



**Explanation of Workshop Method** 

are summarised as follows from the results of the participation analysis in the workshops. The target group is concluded to be <u>Farmers/Villagers</u> in all workshops.

In addition, a text book of LFA were provided to the counterpart experts and farmer animators, and "on-the-job" training at the PCM workshops was carried out to them as one of the transfer knowledge.

The Result of Participation Analysis (Summary of all workshop)

Beneficiaries	External Organisations			
- Farmers (Target group)	- Dept. of Irrigation	- Divisional Secretariat		
- All villagers (Target group)	- Irrigation Management Dept.	- Grama Niladari (GN)		
- Farmers' Organisation (FO)	- Dept. of Agriculture	- State banks		
- Community	- Dept. of Agrarian Services	- NGO		
Internal Organisations	- Agrarian Service Centre	- Private banks		
- Farmers' Organisation (FO)	Potential Opponents			
- Women's Society	- Landowners living outside(Nachchaduwa)			
- Death Donation Society	- Landed class – "Purana" paddy field(Periyakulama)			
- Project Management Committee Others				
- Federation of Farmers' Organi-	- Priests	- Private companies		
sation				

Special attention was paid to the following two points in the result of the participation analysis.

- a) Farmers' Organisation is raised as the internal organisation in all workshops.
- b) As the potential opponents, Nachchaduwa scheme raised landowners living outsides and the landed classes having "Purana" paddy fields in Periyakulama scheme. The former is due to the problem of O&M by seasonal tenants and the latter is due to occupy the irrigation water management.

### (2) Problems and Objectives Analysis

Following the participation analysis, the problems and the objectives analysis were conducted. Core problems and objectives created by the participants are shown below:

**Core Problems and Core Objectives** 

Schemes/	Work shops	Core Problems	Core Objectives
Nachchaduwa	a	Low income of farming community	Income in the farming community increased
Major scheme	b	Improper socio-economic level	Socio-economic level improved
	С	Low social economic level	Social economic level improved
Dalulus danuala	d	Weak economy	Economy improved
Palukadawela e	e	Low economic status	Economic status improved
Major scheme	f	Unsatisfactory economy	Creating suitable economic level
Periyakulama Medium	g	Low socio-economic status of farming community	Economic status of the farmer community increased
Mahananneriya Medium	h	Unsatisfactory socio-economic status	Socio-economic status improved
Mohanannariya	i	Undeveloped economy	Economy increased
Mahananneriya Minor Cascades	j	Undeveloped socio-economy of community	Socio-economy of community developed

The summary of the problems analysis and the objectives analysis in all workshops is described in the table on page 16-6. A wide rage of major subjects are

covered, namely, "strengthening organisation and community", "rehabilitation of irrigation facilities", "improvement of water management", "increase agricultural products", "strengthening extension", "marketing", "agricultural credit", "elephant damage", "land problem/ shortage", "unemployment", "social problem as alcohol/drug addict" and "rural infrastructure as hospital, education, latrine."

Many participants expressed the importance of the farmers' organisation to solve those problems. It coincides that FO is in internal organisation in the participation analysis. They also raised the



**Problems & Objectives Analysis by Participants** 



**Project Selection by Participants** 

improvement of job opportunity, self-employment and small-scale enter-prises by FO. However, the participants did not describe in the problem tree and the objectives tree and did not deeply analyse on strengthening of FO.

### (3) Project Selection

Participants identified the following six development approaches: i) strengthening of FOs, ii) obtaining enough water supply, iii) improving agricultural activities, iv) improving social and moral values, v) land development, vi) improving rural infrastructure. Of these, they have selected the following three approaches in all workshops. These are closely connected to each other and they should be implemented at the same time.

### **Approaches Selected by Participants**

- 1) Strengthening of FOs (including improvement of employment as non-farm income)
- 2) Obtaining enough water supply
- 3) Improving agricultural activities (including marketing and agriculture credit)

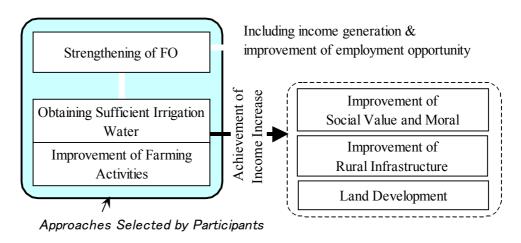
#### **Summary of Problems and Objectives Analyses Problem Analysis Objective Analysis** 1. Weakness of Farmers' Organization 1. Strengthening of FO Strengthening structure of farmer organization Weak structure of farmer organizations Farmer participate actively No organizational coordination Absence of unity Strengthening in women's participation Weakness in women's' participation Impress members of importance of FO Strengthening of joint assistance to farmers Low concept among farmers (no planning) Communication weakness by state agencies Acting with plan Political goals in the forefront Establishing good communication system 2. Shortage of irrigation water Irrigation water is not sufficient Set up organization to unite farmers & officers Destruction of irrigation system Not being slaves to political objectives Deterioration of canals 2. Obtaining enough irrigation water Tanks not rehabilitated Obtaining enough water for irrigation Cultivating in tank reservation Improvement of irrigation system Repairing of irrigation canal system weakness in water management Unsystematic water management Rehabilitating connected tanks FO not systematically functioned Stopping cultivation in tank reservation Irrigation rules and regulations not enforcement Saving water FO's rules are not enforcing Improvement of water management 3. Low agricultural production Activate FO's system Fluctuating prices of agricultural products Getting enough fund in FO Dependent on paddy cultivation only Implementing irrigation rules & regulation No technical assistance Maintaining irrigation system properly Low yields of agricultural products Good cooperation among officers 3. Improvement of agricultural activities Infertility of land Wild elephant damaging crops Receiving proper price for agricultural products Inability to do cultivation activities at correct time Diversification of crop cultivation Cultivation of OFC in paddy land Not receiving agricultural inputs in time No funds for agricultural inputs Providing technical assistance No agricultural roads Improving productivity of crops Difficulties in marketing agricultural produce Use organic fertilizer Low quality of products Controlling damage by wild elephants Not cultivating mix crop Doing agricultural activities at the correct time Middlemen buying produce at low price Providing agricultural inputs in time No sales points for product Obtaining funds for agricultural inputs 4. Absence of additional income Building farm roads A society with undeveloped economically Creating markets for agricultural produce Absence of sufficient resources Selecting proper crops No self employment Growing different crops at the same time Inability to use resources Stopping middlemen buying goods at cheap price Dependence concept to others Create sales points for product No opportunity to receive vocational training 4. Improvement of Social and Moral Values No saving and loan facilities Creating self-employment opportunities Decreasing of norm Providing sufficient loan facilities Decreasing moral values Creating an economically developed society Disunity in community Providing professional training Use of alcohol/drugs Introducing alternate saving scheme Ignorance Developing social morality 5. Lack of amenities Creating unity in the community Absence of infrastructure facilities Stopping use of alcohol/drugs Absence of adequate education facilities Creating awareness luck of teacher 5. Improvement of rural infrastructure Difficulty in receiving health services Providing infrastructure facilities No health facilities Creating good educational services No toilet Appoint trained teacher No electricity Improving health services No facilities for drinking water Establish fully equipped hospital Inconvenient for the transportation Providing toilet facilities 6. Shortage of land Providing electricity Shortage of land Providing drinking water facilities Variations in distribution of land Convenient for the transportation No land for younger generation in scheme 6. Land development

Not receiving available land

Solving land problem

Consolidation of land

Control-ling distribution of land Making use of available land The participants are connecting the strengthening of FOs with the improvement of employment and the increase of non-farming income. It is considered that they are thinking the strengthening through provision of social services by FOs. They also own the following ideas basically on the selection of approaches. Im-proving social and moral values, and rural infrastructure are able to solve in many things by themselves once they have achieved an improved production activity and an income increase by the strengthening of FOs.



**Basic Idea of Participants on Selecting Approaches** 

### (4) The results of Workshop of Respective Irrigation Scheme

The workshops in the major, medium and minor schemes had almost the same results. The difference was less intention to the catchments conservation with reforestation in the major scheme and high in the medium and minor. The participants recognised that tanks in the medium and minor schemes are the properties of the communities, while there is less such an idea in the major scheme.

### 16. 3 Preparation of Project Design Matrix

### 16.3.1 Preparation of the Preliminary Project Design Matrix by the Study Team

The Study Team has prepared the preliminary PDM based on the results of the PCM workshops. The preliminary PDM of respective schemes is in Table 16.3.1. The workshops were held at ten locations, however, the PDM was prepared for the schemes due to the results within the scheme were almost similar. The core objectives of each workshop and the project title and the project purpose of each scheme are shown below.

**Core Objectives, Project Titles, Project Purposes** 

<b>.</b>	PCM		PDMs		
Irrigation Schemes	Work- shops	Core Objectives	Project Titles	Project Purposes	
	a	Income of commu- nity increased	Nachahaduwa Irrigation	Farmers'	
Nachchaduwa Major	b	Socio-economic level improved	Nachchaduwa Irrigation Agriculture & Rural Development Project	income of community	
	c	Proper socio-economy promoted	Development Project	increased	
	d	Economic developed	h		
Palukadawela Major	e	Economic status increased	Palukadawela Irrigation Agriculture & Rural	Proper econo- mic level cre-	
f		Proper economic level created	Development Project	ated	
Periyakulama Medium	g	Economic status of community improved	Periyakulama Irrigation Agriculture & Rural Development Project	Economic status of community improved	
Mahanan- neriya Medium	h	Socio-economic status increased	Mahananneriya Irrigation Agriculture & Rural Development Project	Socio-economic status increased	
Mahanan- neriya	i	Economic level improved	Mahananneriya Cascade Irrigation Agriculture &	Socio-economy	
Minor (Cas- cade)	j	Socio-economy of community developed.	Rural Development Project	of community developed.	

As shown the prepared PDM in Table 16.3.1, "Narrative Summary", "Objectively Verifiable Indicators" "Mean of Verification", "Important Assumptions", "Inputs" and "Pre-conditions" are reviewed and the major plans are prepared. The result of qualitative review of "Inputs" was raised since quantitative review has not done at the preliminary stage. "Narrative Summary" was prepared on "Overall Goal", "Project Purpose", "Outputs" and "Activities". "Narrative Summary" of all schemes is summarised as follows.

Narrative Summary of the Preliminary PDM

Overall Goal	Sustainable development of rural agriculture is achieved.				
	Agriculture productivity in the rural community is improved.				
Project Pur-	Nachchaduwa Major Scheme : Income of farmers is increased.				
pose	Palukadawela Major Scheme : Suitable economic level is created.				
	Periyakulama Medium Scheme : Economic status of farmer is improved.				
	Mahananneriya Medium Scheme: Socio-economic status is improved.				
	Mahananneriya Minor Cascade : Socio-economic status is improved.				
Outputs	Multi-functional Farmers' Organisation is established and strengthening.				
	Proper Irrigation water is distributed according to the schedule				
	- Irrigation facilities are rehabilitated and improved.				
	- Proper water management is conducted by FO.				
	- Irrigation facilities are properly maintained.				
	Agriculture activity is improved.				
	- OFC cultivation is expanded.				
	- Agricultural extension activity is strengthened.				
	- Agriculture inputs and outputs marketing is improved.				
	- Access to credit services is improved.				
	- Deforestation in the catchment area is reduced.				

(continued)

#### Activities Strengthen Farmers' Organisations - Conduct awareness and training programmes. - Reorganise FOs to have multifunction.

- Carry out income generation through FOs.
- Supply irrigation water in accordance with schedule.
  - Rehabilitate and improve irrigation facilities.
  - Improve water management.
  - Strengthen O & M of irrigation facilities

### <u>Improve agricultural activity.</u>

- Promote OFC cultivation.
- Strengthen agricultural extension activity.
- Improve marketing of agriculture inputs and outputs.
- Improve credit services.
- Promote reforestation in the catchment area.

This Project purpose comes from the core objectives and is formulated based on the three approaches the farmer selected, namely, i) strengthening farmers' organisation, ii) obtaining sufficient irrigation water, and iii) improvement of agriculture activity. The process from the objectives analysis to the preliminary PDM is described in page 16-10. Following points are supplemented to the preliminary PDM by the Study Team. These are evaluated by farmers at the public meetings.

- 1) "Overall Goal" is to agree with the overall goal of the Master Plan.
- 2) On strengthening FO, as mentioned earlier, the participants pointed out its importance but it was not deeply discussed. Therefore, action plan is set as follows.
  - a) Importance of the awareness programme to the people concerning the Project was pointed out in the group discussion of the Master Plan study but not discussed at the workshops in the priority irrigation schemes. However, it was considered to be important and added together with the training for the strengthening FO into the preliminary PDM.
  - b) The workshop participants were expecting that "obtaining sufficient irrigation water", "improvement of agriculture activity" and vocational training and improvement of the employment are to be carried out by FOs. It is means a multifunctional FO. Therefore "reorganise FO to be capable to multifunction" was imposed and the improvement of employment is to be carried out in "income increase through FOs".
- 3) "Obtaining sufficient irrigation water" was change to "proper irrigation water is distributed according to the schedule" by the Study Team because practical water condition is physically limited by rainfall.
- 4) Countermeasures to elephant damage raised in the objective analysis were excluded from the Project because the required elephant residing area is large, not only the priority irrigation schemes, but as large as province levels.

## **Results of Objectives Analysis** a) Farmers' Organization is strengthened. Employment opportunity is improved. Vocational training is implemented and selfemployment is improved (Small-scale enterprise) Loan is provided for starting business Sufficient irrigation water is obtained. Tank and irrigation facilities are rehabilitated Tanks are desilted. Forest of the catchment area is conserved. Agriculture activity is improved. Crop yield is increased. (Extension services is strengthened) Crop diversification is promoted. Marketing of outputs and inputs material is improved.(including machinery provided by fair Rural credit system is improved. Elephant damage is decreased. d) Social value/ Moral are improved. Moral and unity of community improved. Alcohol addicts are decreased. e) Rural infrastructure is improved. Living/Sanitary facilities are improved. (domestic water supply & Latrine) Electricity is provided. Educational facility is improved. f) Land problems are solved. Farmland is obtained. Land is fairly distributed.

	Preparation of the Preliminary	The Team's Conclusion	
	Outputs	Activities	
ightharpoons	FO equipped multipurpose function is established and strengthened.	Strengthening Fos Conducting Awareness / Training Programmes. Reorganization of Fos to be multipurpose function. Carrying out income generation through FOs.	Workshop participants did a though pointed out its importance of the objectives analysis employment, are to be carricipally will be in FOs' multipurpos. Awareness programme was group discussion of the device pointed out its importance, evaluated in the public mee
	Proper irrigation water is distributed according to schedule.  Irrigation facilities are rehabilitated and Improved.  Irrigation facilities are properly maintained.  Water is managed properly by FO.	Providing irrigation water properly according to schedule.  Rehabilitation of irrigation facilities.  Strengthening O&M of facilities.  Improving water management.	"Sufficient irrigation water water is distributed according water is physically limited. The ideas of improvement are adopted all into the prelatechnically and economicall. Farm road is included in irrigation.
	Agriculture activity is improved.  Agricultural Extension is strengthened  OFC cultivation is disseminated.  Marketing of outputs and inputs material are improved.  Access to agriculture credit is improved.  Forest devastation in the catchment area is decreased.	Improving farming activity.  Strengthening agricultural extension activity.  Promoting OFC cultivation.  Improvement marketing of outputs and inputs materials.  Improvement of credit services.  Promoting reforestation in the catchment area.	The ideas of improvement r are adopted all into the prelitechnically and economically Farm road is included in irr. The improvement of credit and small-scale enterprise. The countermeasures on elethe project is not possible to irrigation schemes but also
	1) Approaches selected by	workshop participants	

#### n on Preparation of the Preliminary PDM

not discuss deeply on strengthening of FOs portance. Participants expected that item b) and is, and income generation, as improvement of ried out by FOs. Therefore income generation ose function.

as not discussed in workshops. However in the evelopment components of M/P. FO leaders e. It is adopted in the preliminary PDM then eting with normal farmers.

is obtained" is amended to "proper irrigation ing to schedule" by the Team due that actually by rainfall.

regarding irrigation in the objectives analysis eliminary PDM since these are concluded llv feasible.

rrigation facilities rehabilitation.

agriculture activity for forest conservation.

regarding agriculture in the objectives analysis eliminary PDM since these are concluded lly feasible.

rrigation facilities rehabilitation.

services is including loan for self-employment

lephant damage is excluded for the reason that to cover large area for this problem not only o district or provincial levels.

- 2) Preliminary PDM is prepared based on the objectives selected by participants as; a) Fos strengthened, b) Sufficient irrigation water obtained and Agriculture activity improved.
- 3) Objectives analysis and preliminary PDM in this table is the summary in the priority irrigation schemes, basic method is to prepare the preliminary PDM is to prepare based on the objectives analysis.
- 4) Workshop is held 10 times and the objectives analysis and selection of approaches carried out in each workshop. Project is to be implemented based on respective scheme and the preliminary PDMs are prepared for each scheme. Workshops in the same scheme were almost the same results, so that problems are concluded to be common for whole scheme.
- 5) Difference among the schemes is that forest conservation in the catchment area was discussed in the medium and minor schemes but not in the major schemes.

PDM is prepared for each scheme Workshop PDM Irrigation Schemes Holding Prepared Nachchaduwa (Major) Palkadawela (Major) 3 Periyakulama (Medium) Mahamannneriya (Medium) Mahananneriya (Minor Cascade) Total

### **Result of Objectives Analysis and Preparation of Preliminary PDM**

### 16.3.2 Review and Evaluation of the Preliminary Project Design Matrix by Farmers

Public meetings were held at the field level, to allow the farmers to review and evaluate the PDMs. The evaluation had the following two major objectives.

- a) Determining whether the preliminary PDM is acceptable to be a development project for the entire community or not.
- b) Reviewing whether the raised action plan is possible to practice.

Number of holdings and participants and method of the public meeting are as follows.

Participants an	a Met	nod of the Public Meeting	
	Nο	Darticipants	

	Location	No.	]	Participan	Remark		
	Location	Held	Male	Female	Total	Kemark	
	Nachchaduwa (Major)	2	34	9	43	Periyakulama scheme	
No. of	Palukadawela (Major)	1	51	2	53	could not hold the	
No. of Location	Periyakulama (Medium)	-	-	-	-	meeting due to the	
&	Mahananneriya (Medium)	1	17	4	21	planting time. Gener-	
Participant	Mahananneriya (Minor Cascade)	1	19	11	30	ally the participants were less for busy in	
	Total	5	121	26	147	the field works.	
	FO leaders, Farmers, Farmers	er Aniı	nators			Discussion was carried	
Participant	The Study Team (Farmer o	out mainly farmer's initiative.					
Method	Explanation of the preliminary PDM. Free discussion method was employed on the possibility of the implementation by farmers' initiatives.						

The results of the public meetings are in Appendix-N and the summary of entire meeting is described in page 16-12. Farmers were able to understand the part of "Narrative Summary" but it seemed that "Objectives Verifiable Indicators" and "Means of Verification" were not fully understood. The public meeting, therefore, conducted mainly with a part of "Narrative Summary." The evaluation in the meeting is concluded as follows.

- a) The participants have accepted all items of the preliminary PDMs. The contents (development approaches) correspond to the farmers' ideas, and it would be the development plan for the entire community.
- b) Farmers raised many opinions regarding the possibility of implementation of the approaches by farmers. For instance, they have agreed with pre-condition of accomplishment of the rehabilitation works to the outputs of "Irrigation facilities are properly maintained." It is considered to be possible since they have agreed to the outputs.

The participants of the public meeting also accepted that the items supplemented by the Study Team of overall goal and the plan of approaches on the strengthening of FOs.

# **Result of Public Meeting (Summary)**

Dualinain and DDM	Online of Bootining (Summary)	<u> </u>
Preliminary PDM  Overall Goal	Opinion of Participants	Comment of the Team
1.1 Sustainable development of rural agric 1.2 Agricultural productivity in rural com		- Likely to be difficult to image real situation though it was agreed.
Project Purpose		(Public meeting was not held in
2.1 Nachchaduwa (Major): Farmer's incom	ne is increased. Agreed	Periyakulama medium scheme due to
Palukadawela(Major): Proper econom		busy time with field works.)
Periyakulama (Medium): Farmer's eco	onomic status is obtained. Agreed	
Mahananneriya(Medium): Socio-econ		
Mahananneriya (Minor Cascade): Soc		
Outputs	·	
3.1 Farmers' Organization with	Agreed: Leader of farmer does not feel wrong to	- Almost farmers agreed with multifunctional
multipurpose function is	multipurpose function that has already been acting as	FO. Some FOs is already functioning for
established and strengthened.	representing the area.	represen- tatives of the community. And
		FOs, work only for water management also
		recognized this importance. Therefore it is
		possible to set up Multifunctional FO.
3.2 Proper irrigation water is distributed	according to schedule	
Irrigation facilities are	Agreed: Participant criticized officers and	- All agreed on irrigation issues.
rehabilitate and improved.	contractors on the past rehabilitation works. It is	- Transparent project is important.
	necessary to maintain discussion and transparency	- Turnover of O&M required with
<b>D</b>	before the commencement of the work.	satisfactory rehabilitation in the major
Proper water management	Agreed: It is necessary to consider those who are	schemes. Farmers willing to maintain D
is carried out through FOs.	not in the meeting and tenant farmers.	and F-canals.
Irrigation facilities are	Agreed: Rehabilitation works should be completed. Unilateral	
properly maintained.	turnover was not accepted by farmers. However farmers think	
22	that they should manage O&M by themselves. (Major)	+
3.3 Agriculture activity is improved.  Agricultural extension	A groud: I ask of knowledge and technology for their	+
Agricultural extension activity is strengthened.	Agreed: Lack of knowledge and technology for their needs to implement. So need proper	
activity is strengthened.	education/training programme.	
OFC cultivation is	Agreed: Elephants will damage OFC. However	- Countermeasures for elephant damage is
expanded.	farmers has been practiced driving them away by	required for OFC promotion.
схранаса.	group in rotation for paddy. OFC could cultivate	required for of e promotion.
	but select proper land at first.	
Marketing of input material	Agreed: Method of co-operative purchasing is good.	- Cooperative purchasing is known well,
and outputs is improved.	if proper amount of products are available, merchant	some of farmers have enough experience.
and outputs is improved.	will come to village.	some of miners have enough emperioneer
Access to credit services is	Agreed: Samurudi and others are providing group	- Improvement of credit services is
improved.	loan but their systems are not fair. Such system	required not only in agriculture but also
r	should be utilized by needy.	for unemployment.
Forest devastation in the	Agreed: Muddy water enters directly into tank. Necessary	
catchment area is decreased.	to work together to maintain community resources.	
Activities		
4.1 Strengthening Farmers' Organization.		- Deep discussion was not done about
Conducting awareness/training	Agreed: Farmer are understand the necessity of awareness	strengthening of FOs. Items of approaches,
programmes.	programme through their experience. They said, need the	written in the left are proposed based on
	programmes for officers.	M/P and almost participants agreed with
Reorganizing to be	Agreed: Recently they hold joint meeting FO and DDS	this proposal.
multipurpose function FO.	after the PCM. Various problem is raised but discussing	- Awareness programme for officers is
	together. They like to be multipurpose FO.	required by farmers.
Promoting income	Agreed: Young people are doing brush making, fish cultivation.	
generation through FO.	Since most activities is related to farming, the propose is good.	
4.2 Supplying proper irrigation water acc		B. H. W. C.
Rehabilitation and	Agreed: Necessary to share information, since	- Rehabilitation of irrigation facilities, O&M,
improvement of irrigation	farmers know well their problems related irrigation.	water management are agreed by all.
facilities.	A man d. A o for alliforn and a state of the	- To keep communication between executing
Improving water	Agreed: As facilities are not properly functioned,	agency and farmers is important. For
management.	they manage water in their own way through their	instance, It would be considered that farmer
Strangthaning O P- M -f	experience. Leaders think, all farmer must understand	could understand reality and take their
Strengthening O & M of	proper water management.  Agreed: The gap of the idea on O&M between FO	appropriat responsibility through direct
irrigation facilities.	leaders and ordinary farmers is large. Regarding	discussion with farmers, if Project could not respond all their request.
	O&M, all must share common ideas. Awareness for	Pointed out that awareness programme for
	ordinary farmer is important.	farmers is necessary.
4.3 Improving Againstone activity	oronary runner is important.	- Tarriers is necessary.
4.3 Improving Agriculture activity.  Strengthening agricultural	Agreed: Farmers expecting practical training, for receive	- T&V is proposed by farmers but it is
extension activity.	technical guidance in the field. (former T&V system)	opposed to the Government policy and
Promoting OFC cultivation.	Agreed	is not possible. But extension services
Improving marketing of in-	Agreed	will be possible.
puts material and outputs.	<i>8</i> ·· <del>-</del>	
Improving credit services.	Agreed: There is many farmer who are not cultivation	- Improvement of credit services is
r	in time due to lack of finance. If this programme	important for efficient water management.
	start, they can cultivate in proper time.	r
	E TET TO TO	4
Promoting reforestation of	Agreed	

### 16.3.3 Preparation of the Project Design Matrix Adopted in F/S

The participants of the public meeting have accepted almost all the items of the Outputs and Activities of the preliminary PDMs as mentioned before. Therefore, the PDM adapted to respective priority irrigation scheme has been employed as the preliminary PDM. The details of PDM of respective scheme are described in Chapter 17.

Narrative Summary of the PDM adopted in F/S

<u> </u>						
Sustainable development of rural agriculture is achieved.						
Agriculture productivity in the rural community is improved.						
Nachchaduwa Major Scheme : Income of farmers is increased.						
Palukadawela Major Scheme : Suitable economic level is created.						
Periyakulama Medium Scheme : Economic status of farmer is improved.  Mahananneriya Medium Scheme : Socio-economic status is improved.						
Mahananneriya Medium Scheme: Socio-economic status is improved.						
Mahananneriya Minor Cascade : Socio-economic status is improved.						
Multifunctional Farmers' Organisation is established and strengthening.						
Proper Irrigation water is distributed according to the schedule						
- Irrigation facilities are rehabilitated and improved.						
- Proper water management is conducted by FO.						
- Irrigation facilities are properly maintained.						
Agriculture activity is improved.						
- OFC cultivation is expanded.						
- Agricultural extension activity is strengthened.						
- Agriculture inputs and outputs marketing is improved.						
- Access to credit services is improved.						
- Deforestation in the catchment area is reduced.						
- Damage by elephant is decreased.						
Strengthen Farmers' Organisations						
- Conduct awareness and training programmes.						
- Reorganise FOs to have multifunction.						
- Implement income generation and social services through FOs.						
- Construct Farmer Centres.						
Supply irrigation water in accordance with schedule.						
- Rehabilitate and improve irrigation facilities.						
- Improve water management.						
- Strengthen O & M of irrigation facilities						
Improve agricultural activity.						
- Promote OFC cultivation.						
- Strengthen agricultural extension activity.						
- Improve marketing of agriculture inputs and outputs.						
- Improve credit services.						
- Promote reforestation in the catchment area.						
- Establish surveillance system of wild elephant in FOs.						

The preliminary PDM was modified by the Study Team as follows:

 The countermeasures to elephant damage had been excluded in the preliminary PDM due to the large target area. However the opinions of the participants were that it is necessary for OFC cultivation and suggested to expand their practices (guarding by group) carrying out in paddy cultivation. The countermeasures of strengthening guarding

- system by FO and the use of thunder-flash and cracker are employed, though these are expedient treatments for reducing damages.
- 2) Improvement of Social values and morals such as resolving alcohol addiction was discussed in the problem analysis and the objectives analysis but it was not selected in the approaches. It was also not discussed in the meeting, however, it was proposed as one of the FOs' multifunctional services for the serious community problem that the women are especially facing.
- 3) The construction of the Farmer Centre, as a office for FO and Farmer Animator, was proposed in order to maintain communication for strengthening of FOs with the official institution and among the community.

### 16.4 Results and Evaluation of Survey for Participatory Planning

### (1) Results of the Survey for the Participatory Planning

The participants of the PCM workshop selected i) strengthening of FO, ii) obtaining sufficient irrigation water, and iii) activating agriculture activities for the development approaches in the priority irrigation schemes. These approaches were almost the same for all scheme. Based on these results, the preliminary PDM was prepared by the Study Team and then it was evaluated by farmers in the public meeting. The result of the evaluation was that almost all the preliminary PDM was accepted by farmers. The preliminary PDM was adopted to the PDMs of the irrigation schemes for representing entire irrigation scheme and possible to implement by farmers. The contents of the development plan for the priority irrigation schemes are prepared based on this PDM and for preparing the action plan.

### (2) Attitudes of Normal Farmers toward the Project

It is important for farmers to realise "Core of the project is beneficiaries" at stages of survey and formation of the plan. It is believed that the participants of the workshop in this survey have realised this. However, in the public meeting, it was seen that normal farmers who have not participated to the workshop tend to only passively accept the plan. Therefore awareness activity of "The core is beneficiary" to the entire beneficiary is needed. This activity is to be carried out for awareness of normal farmers through FOs as the awareness programme for strengthening of FOs.

### (3) Validity of the Approaches Selected in the PCM Workshop

By the result of PCM workshop, the core problem and the core objective are

concluded to be "Low income of farmers" and "Farmers income is increased" respectively. These coincided with the results of the RRA workshops and it is considered that these results are problems that farmers in Sri Lanka are commonly facing. In 1984, the Ministry of Lands and Land Development carried out village workshops to involve participation of the settlers in the planning process. The results of these workshops and those of the PCM workshops are similar to the Study Team. Although it is difficult to compare simply because the purpose, methodologies, socio-economic background, and composition of participants are different, it is considered as common problem to a certain extent in rural communities of Sri Lanka and also in the Dry and Intermediate zones outside of the Study area of the Master Plan.

### (4) Problem and Countermeasures of PCM Workshop

Workshop by PCM method is carried out with certain rule of writing one situation occurred by missing something onto a piece of card. In accordance with this rule, participants are writing in the cards, then continuing discussion by all for problem analysis and objectives analysis. The discussion is logically carrying on as "Cause and Result" or "Means and Objectives" on the prepared cards. The participants in the workshops were mostly farmers and the following problems were observed.

- a) Participants, especially farmers, are not able to describe according to the workshop's rule.
- b) The relation of "Cause and Result" or "Means and Objectives" is not understood in the problem and objectives analysis.
- c) Some farmers are not familiar with a large workshop (50 to 60 participants) and hesitated to speak in some cases.

The Study Team has repeatedly explained items a) and b) but the farmers could not understand the rule, and were unable to speak. The participants, who understood the rule as farmer animators, spoke more. The workshop on item a) and b) is considered to be too much a logistical way of thinking for the farmers.

In order to solve these problems, the workshops were carried on as follows by partially imposing the CAP (Community Action Planning and Management) method, which is generally utilised in Sri Lanka.

- 1) Participants are divided into small groups of 5 to 8 members. There is no specific standard on grouping. By adopting such method, member has been changed to be equal speaking and active discussion by situation observing group.
- 2) Let them freely discuss in each group and writing all topics on A1 size

paper. Then the representative of the group presents topics discussed for all and the participants ask questions and are answered by the representative or the group member. This can share the topics of respective group with all participants.

- 3) Written contents of problem/objectives on A1 paper are rewritten to cards, item by item
- 4) Problem/objectives tree is prepared by sticking those cards according to the subjects. The cards are organised in order from core problem/objectives downward and unnecessary cards are eliminated by agreement of the participants and cards are also added if necessary.
- 5) All participants discuss and conclude on prepared problem/objectives tree at last.



Discussion by small group



Presentation by group representative

This method could be used to conduct workshops smoothly in the Survey and obtained the outputs. The merits of this method are:

- a) Possible to discuss by farmers' way of thinking (free discussion)
- b) Easy to speak by dividing into small groups (as normal conversation size)
- c) Easy to rewrite from A1 paper on which are written all subjects of discussion (pick up one by one)
- d) The trees with sticking all cards are easy to prepare and to see (similar to crossword)

Further application of PCM or LFA as participatory planning is expected in the development project in Sri Lanka. This method is recommended for a solution when problem takes place in PCM workshop.

### 16.5 Survey and Investigation of Irrigation Facilities by Farmers

### 16.5.1 Method of Survey and Investigation

The field investigation to identify condition of the facilities were carried out by the farmers in order to promote farmers' participation in formation of the rehabilitation and improvement plan, and to reflect their needs to the plan to the maximum extent. The survey covers the following items for the D & F-canals for major and medium irrigation schemes, and all facilities in minor irrigation schemes:

Lists of irrigation facilities to be rehabilitated / improved,

A map locating the facilities (sample of the map in the next page),

Description and work quantities of rehabilitation / improvement, such as canal length and number of structures,

Necessary input with estimated cost, like labours, cement, and aggregates, and

Amounts that the farmers can share in the works.

At first, after the PCM workshop, an explanation of how to conduct the survey was conducted by the Study Team. Subsequently, the farmers proceeded the survey and investigation under assistance of the government staff like farmer animators. The survey was complete in 28 FOs. The details of survey results are shown in Appendix - X.

### 16.5.2 Evaluation of Survey and Investigation

### (1) Evaluation of Farmers' Capacity for Survey and Investigation

The evaluation on the farmers' capacity for plan formulation was carried out based on the following items:

Illustration of FO area map and indication of the rehabilitation locations on the map.

Description of rehabilitation plan for each location.

Details of rehabilitation, such as length of canal and number of structures.

Work quantity calculation and cost estimate.

The results of the evaluation are shown in Appendix P and summarised below.

The farmers, in general, are able to indicate the rehabilitation locations on the map and to describe the concrete rehabilitation and improvement plan for each location.

There are some needs to improve the farmers' capability on the cost estimates. It was also revealed that the FO office bearers, who have ever worked in contractors, had experiences to take the quantity cal-

culation as well as the cost estimates.

Taking into consideration these findings, it is concluded that the planning and design of D and F canal can be carried out by the farmers themselves with a proper technical guidance by the government staff.

### (2) Evaluation of Results of Survey and Investigation by Farmers

The results of field verification by the Study Team revealed that prioritisation of the rehabilitation works were incorporated in the farmers' plan. It was also observed that the farmers idea and intention on the rehabilitation of the irrigation facilities and farm roads were within the appropriate ranges. Therefore, in this Study, it is concluded that the rehabilitation and improvement plan for D-and F-canals are formulated based on the farmers' idea.

Further, almost all FOs replied that 10% of the construction cost could be contributed supplying labour forces. This fact indicates that the farmers are familiar with the contribution system applied to the World Bank and ADB assisted projects.

