

ANNEX 1: VANGKHONG

- LIST OF PARTICIPANTS
- PCM PROBLEM TREE
- PCM OBJECTIVE TREE
- PDM

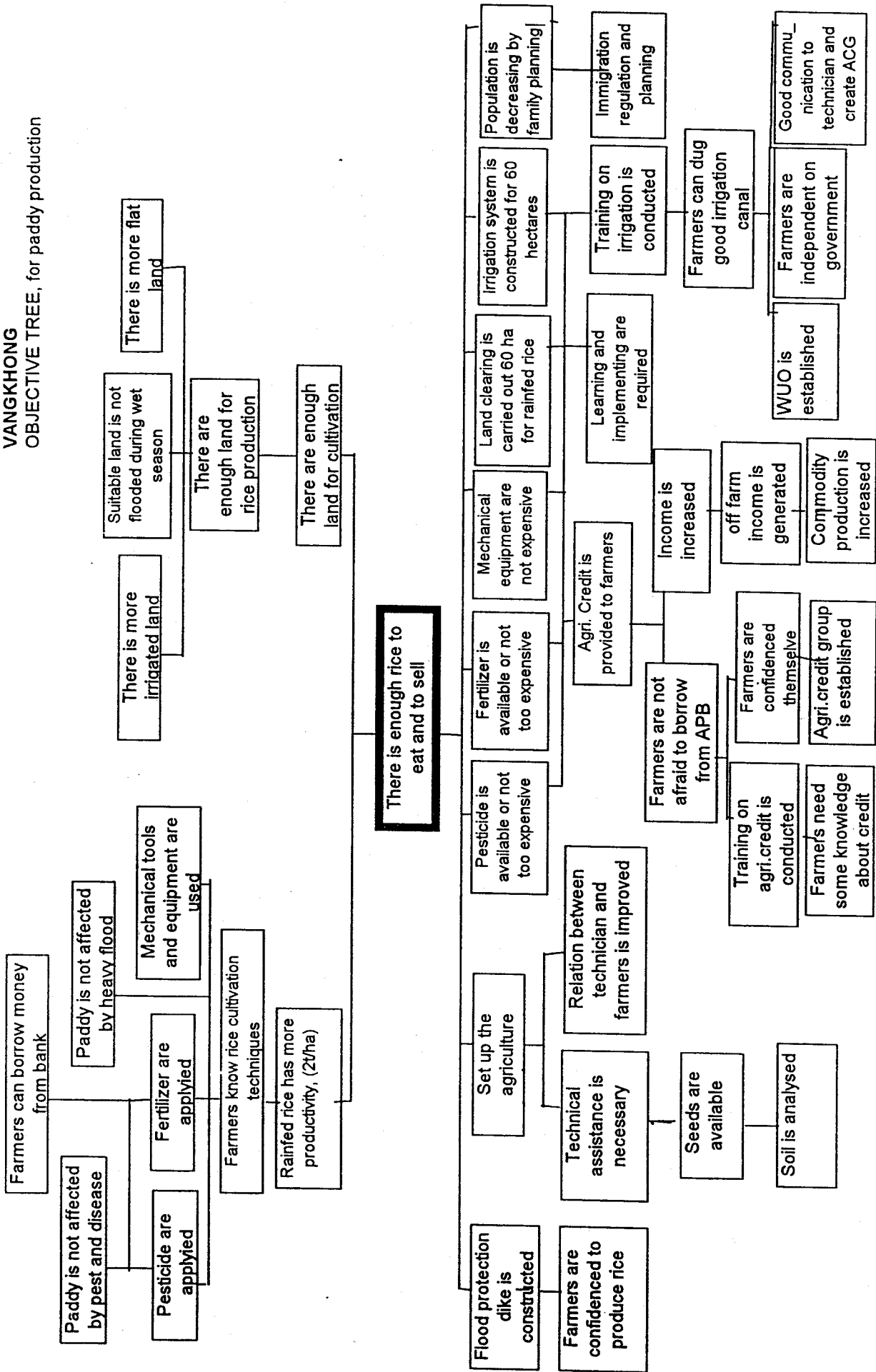
**List of participants, 29/11/99 - 1/12/99
(Seminar on PCM in Vang khong Village, Hinboun District)**

No	Names	Address	Position
1	Mr. Khamtanh	DAFO(TFT)	Irrigation Section
2	Mr. Seng Aloun	DAFO(TFT)	Cropping Section
3	Mr. Bounkanh	Vang khong Village	Deputy Chief of Village
4	Mr. Boun Soh	Vang khong Village	Village Veterinary
5	Mr. Boun Sone	Vang khong Village	Head of Elder of Vangkhong Village
6	Mr. Boun Sou	Vang khong Village	Village Economist
7	Mr. Duan	Vang khong Village	Head of Unit No 2
8	Mr. Boun Gnong	Vang khong Village	Deputy Elder of Village
9	Mr. Boun Gnoh	Vang khong Village	Head of Unit No 1
10	Mr. Keuthmy	Vang khong Village	Villager
11	Mr. Det Sakda	PAFS (TFT)	Irrigation Section
12	Mr. Keo Oudone	Vang khong Village	Head of Youth organisation
13	Mr. Khamsing	Vang khong Village	Villager
14	Mr. Kham Oui	Commerce Office of Hinboun District	Chief of Commerce Office
15	Mr. Kham Sone	Vang khong Village	Security man
16	Mr. Vilaysack	APB of Hinboun District	Chief of APB
17	Mr. Vanthaligna	DAFO(TFT)	Deputy Chief of DAFO
18	Miss. Am mala	PAFS (TFT)	Cropping Section
19	Mr. Somphith	Vang khong Village	Head of Military for the Area No 6
20	Mrs. Miphayvanh	Vang khong Village	Head of LWU
21	Mr. Khamphanh	Vang khong Village	Police man
22	Mr. Vanglavy	Vang khong Village	Elder in the Village

**List of participants, 3-4/12/99
(Seminar on PDM in PAFSO, Khammouane Province)**

No	Names	Address	Position
1	Mr. Khamtanh	DAFO(TFT)	Irrigation Section
2	Mr.Seng Aloun	DAFO(TFT)	Cropping Section
3	Mr. Bounkanh	Vang khong Village	Deputy Chief of Village
4	Mr. Keuthmy	Vang khong Village	Villager
5	Mr. Det Sakda	PAFS (TFT)	Irrigation Section
6	Mr. Kham Oui	Commerce Office of Hinboun District	Chief of Commerce Office
7	Mr. Vilaysack	APB of Hinboun District	Chief of APB
8	Mr. Vanthaligna	DAFO(TFT)	Deputy Chief of DAFO
9	Miss. Am mala	PAFS (TFT)	Cropping Section
10	Mr. Bounmy	PAFS	Planning Section
11	Mr. Vieng kham	PAFS	Planning Section

VANGKHONG
OBJECTIVE TREE, for paddy production



Irrigation development approach

Open new land approach

Agriculture extension improvement approach

PROJECT DESIGN MATRIX

Project Name: Rice Promotion Project

Project Area: Vangkhong Village, Himboun District, Khammouane province

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <ul style="list-style-type: none"> - The overall population of the village have enough rice to eat and to sell 	<ul style="list-style-type: none"> - Production of paddy attain 450 kg/person/year by 2002 	<ul style="list-style-type: none"> - Village statistic book - Yield measurement 	<ul style="list-style-type: none"> - There is no severe floods - The price of rice is stable - There are no big fluctuation and devaluation of local currency
<p>Project Purpose</p> <ul style="list-style-type: none"> - Increase the productivity and yield of rainfed and irrigated paddy - Increase the paddy production area 	<ul style="list-style-type: none"> - Average rainfed paddy yield attains 2 Tons/ha - Average irrigated paddy yield attains 4 Tons/ha - Rainfed paddy production area attains 110 ha - Irrigated paddy production area attains 60 ha 	<ul style="list-style-type: none"> - Village statistic book - Yield measurement - DAFSO statistic book 	<ul style="list-style-type: none"> - The villagers are willing to contribute for new project - There is electricity in order to reduce costs of production - There is enough fund
<p>Outputs</p> <ul style="list-style-type: none"> - There is enough water to irrigate 60 ha of paddy field during dry season - There is a strong WUO for the O&M of the scheme - Credit group are formed and received enough credit from APB - Paddy production is practiced according to techniques. - Production groups are formed to receive enough technical support from DAFSO and other agencies - Paddy buying and selling groups are established 	<ul style="list-style-type: none"> - Irrigated paddy field reaches 60 ha - One WUO established - 4 production groups established - 4 model farmers - 5 credit groups established - 1 paddy buying and selling group - one family sells 100 kg/person/year of paddy 	<ul style="list-style-type: none"> - Village statistic book - DAFSO statistic book - APB credit records - FSC buying records - WUO books and reports 	<ul style="list-style-type: none"> - There is enough credit

Activities	Inputs
<p><i>Improve rice productivity and yield</i></p> <ul style="list-style-type: none"> - Training of farmer organization and farmers - Establish model farmers - Training of model farmers - Establish production groups - Training of production groups - Introduction of improved seeds - Soil suitability analysis - Establish credit groups - Training of credit groups - Establish selling and buying groups - Training of selling and buying groups <p><i>Irrigation and land development</i></p> <ul style="list-style-type: none"> - Construct irrigation system head works - Construct irrigation canals and structures - Opening new land (60 ha) by land clearing - Provision of long term credit for land clearing and irrigation - Establish and strengthen WUO 	<p>Irrigation head works</p> <p>Irrigation canals</p> <p>Land opening</p> <p>Training activities</p> <p>KIP 828,000,000</p> <p>KIP 300,000,000</p> <p>KIP 90,000,000</p> <p>KIP 8,000,000</p> <p>Government 100%</p> <p>Government 65%, APB credit 30%, Villagers (labor) 5%</p> <p>APB credit 70%, Villagers 30%</p> <p>Government 100%</p>
<p>Preconditions</p> <p>Villagers are willing to contribute and borrow money from APB.</p>	

PROJECT DESIGN MATRIX

Project Name: Animal Husbandry Promotion Project
 Project Area: Vangkhang Village, Hinboun District, Khammouane province

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <ul style="list-style-type: none"> - The livestock and fisheries activities have increased to provide enough food and generate enough incomes to the overall villagers. 	<ul style="list-style-type: none"> - Cattle increased by 75% in five years - Pigs increased by 50% - Poultry increased by 260% - Fish culture developed with 4 ponds and 2 river baskets 	<ul style="list-style-type: none"> - Village statistic book - Village veterinarian book - DAFSO statistic book 	<ul style="list-style-type: none"> - There is no non-curable disease - Price of breed animals is stable - There are no big fluctuation and devaluation of local currency
<p>Project Purpose</p> <ul style="list-style-type: none"> - Develop livestock production - Develop land fisheries and river fisheries - Develop veterinary practices at village level - Develop livestock production groups 	<ul style="list-style-type: none"> - Same as above indicators - 2 cattle raising groups established - 6 fish culture groups established - animal death reduced by 50% - vaccination rate increased by 70% for cattle - vaccination rate increased by 50% for poultry 	<ul style="list-style-type: none"> - Village statistic book - Village veterinarian book - DAFSO statistic book 	<ul style="list-style-type: none"> - There is enough grazing land after the land clearing for irrigation - Drugs are available - There is appropriate regulations for animal breeding
<p>Outputs</p> <ul style="list-style-type: none"> - Population of cattle has increased - Population of pigs has increased - Population of poultry has increased - Fish production has increased - Villagers vaccinate their animals and follows recommendation from village veterinarian. - Credit group and production group for livestock and fisheries are formed 	<ul style="list-style-type: none"> - Same as above indicators - Cattle increased by 192 heads - Pigs increased by 23 heads - Poultry increased by 720 heads - 8 credit groups established 	<ul style="list-style-type: none"> - Village statistic book - DAFSO statistic book - APB credit records - FSC buying records 	<ul style="list-style-type: none"> - There is enough credit

Activities	Inputs
- Establishment of livestock production groups	KIP 24,000,000 APB credit 70%, Villager 30%
- Training in livestock raising	KIP 8,000,000 APB credit 30%, Villager 70%
- Training of village veterinarians	KIP 1,500,000 APB credit 70%, Villager 30%
- Establishment of village drug stocks	KIP 3,000,000 Government 100%
- Establishment of fish production groups	KIP 2,000,000 Government 100%
- Training in fish culture	
- Establishment of credit groups in relation to above production groups	
- Training about APB credit	
- Construction of 3 additional fish ponds	
- Construction of 2 river basket to breed natural fish in Hinboun River	
- Provision of fingerlings	
Preconditions	
Villagers are willing to contribute and borrow money from APB.	

ANNEX 2: PHONTHAN

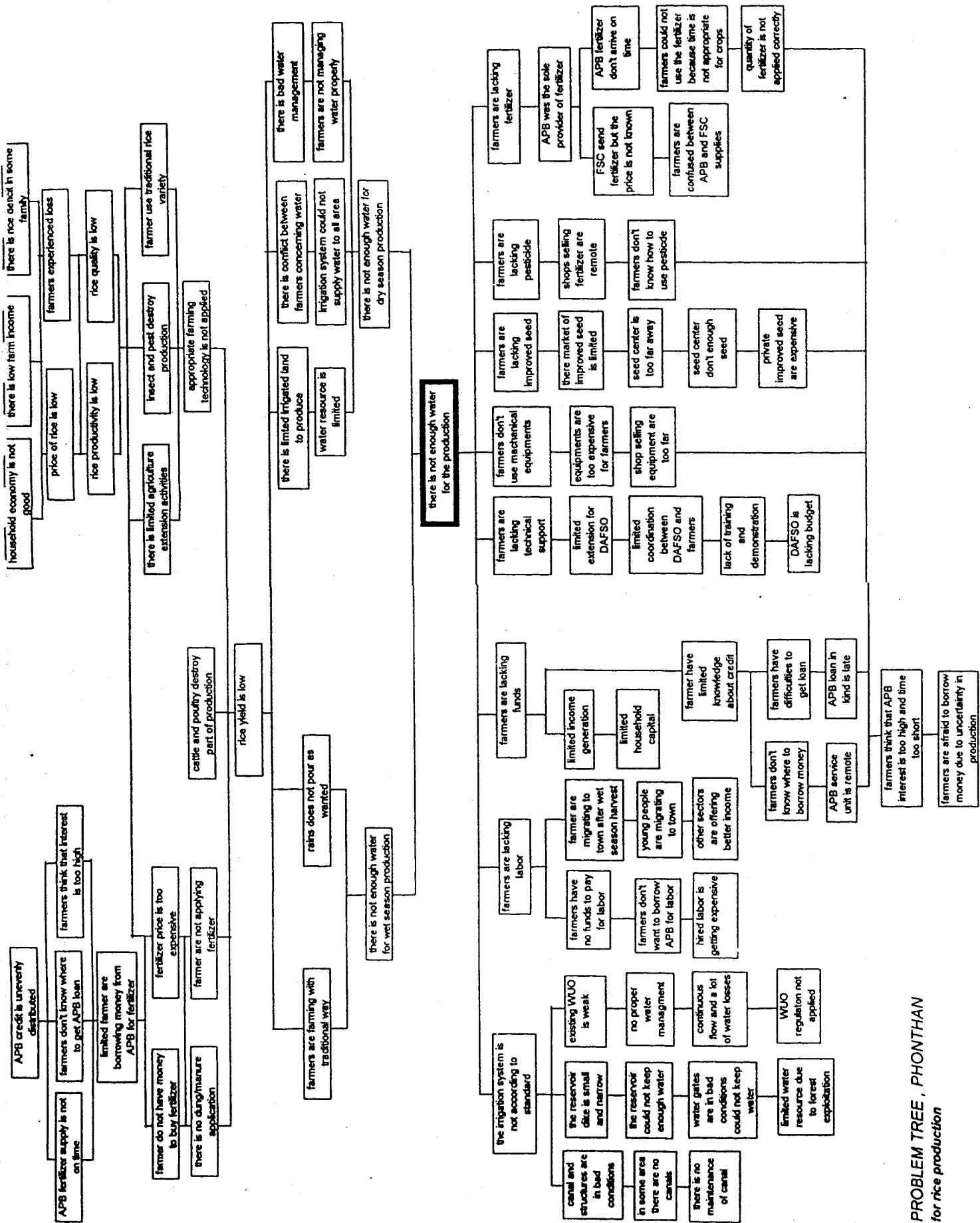
- LIST OF PARTICIPANTS
- PCM PROBLEM TREE
- PCM OBJECTIVE TREE
- PDM

**List of participants, 9-10/12/99
(Seminar on PDM in PAFSO, Savannakhet Province)**

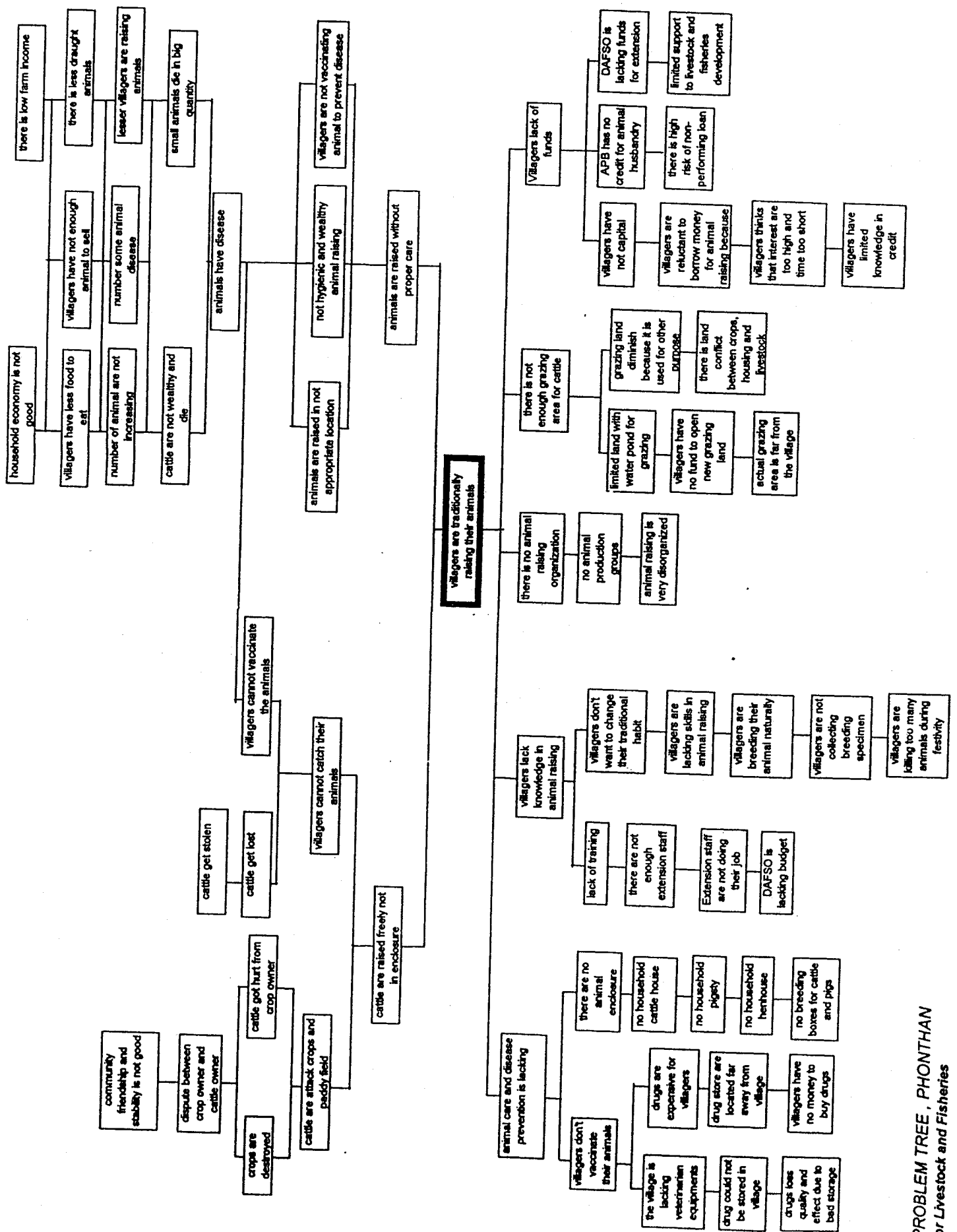
No	Names	Address	Position
1	Mr. Bounthiem	PAFSO, Savannakhet Pr.	Chief of PAFS, Savannakhet Pr.
2	Mr. Lam sack	PAFSO, Savannakhet Pr.	Forestry Section
3	Mr. Thanousone	PAFSO, Savannakhet Pr.	Deputy Chief of Cropping Section
4	Miss. Olavanh	PAFSO, Savannakhet Pr.	Technical staff, Planning section
5	Mr. Somsanouk	PAFSO, Savannakhet Pr.	Deputy chief of Irrigation Section
6	Mr. Boun thiene	PAFSO, Savannakhet Pr.	Deputy chief of Livestock Section
7	Mr. Boun pheng	DAFO(TFT), Sayphouthong	Chief of DAFO, Sayphouthong
8	Mr. Sengsavanh	DAFO(TFT), Sayphouthong	Technical staff, DAFO
9	Mr. Duang chanh	Phone thanh Village	Chief of Village
10	Mr. Phou khong	Commerce District Office	Officer, CDO
11	Mr. Seng	Nakham Nua(North)	Chief of Village
12	Mr. Bounkeuth	Nakham Nua(North)	Chief of Nakham Area
13	Mr. Boun Lone	Nakham Tai (South)	Chief of Village
14	Mr. Souvanh	DAFO, Sayphouthong	Technical staff, Irrigation
15	Mr. Keo Oudone	PAFSO, Savannakhet Pr.	Technical staff, Planning Section
16	Mr. Kham Souk	APB, Savannakhet Pr.	Agri. Credit Section

List of participants, 6-8/12/99
(Seminar on PCM in Phone thanh Village, Sayphouthong District)

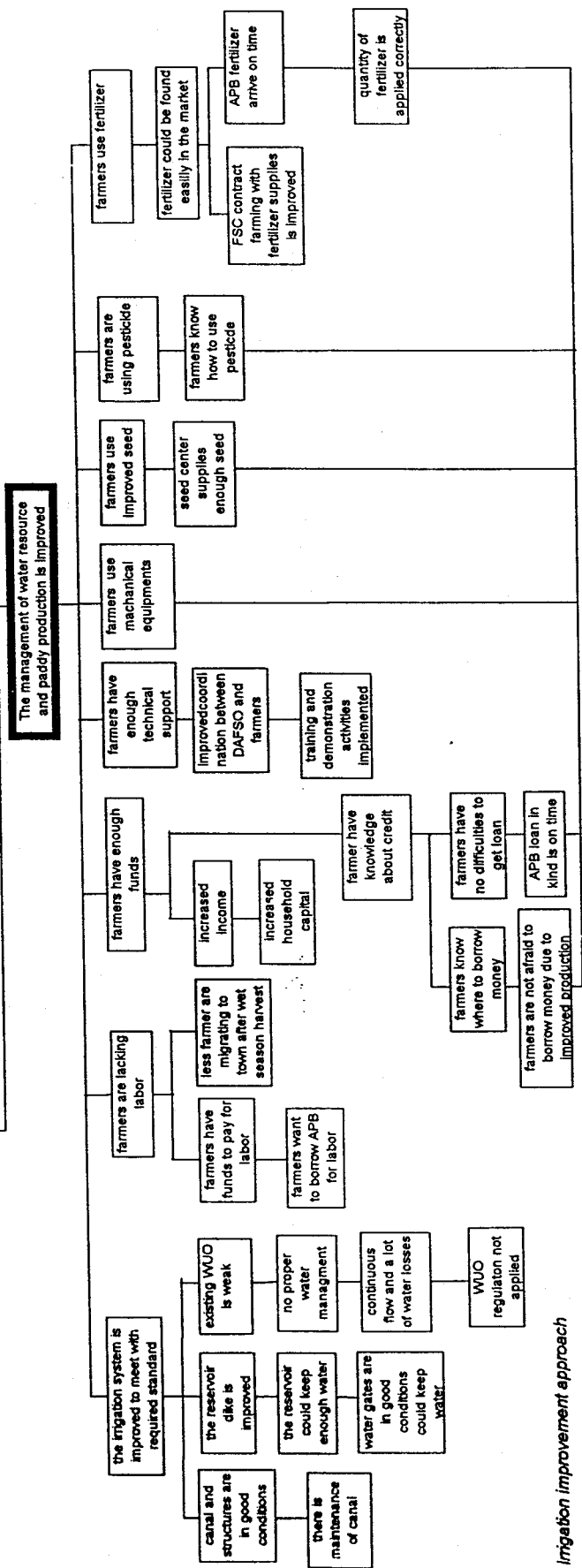
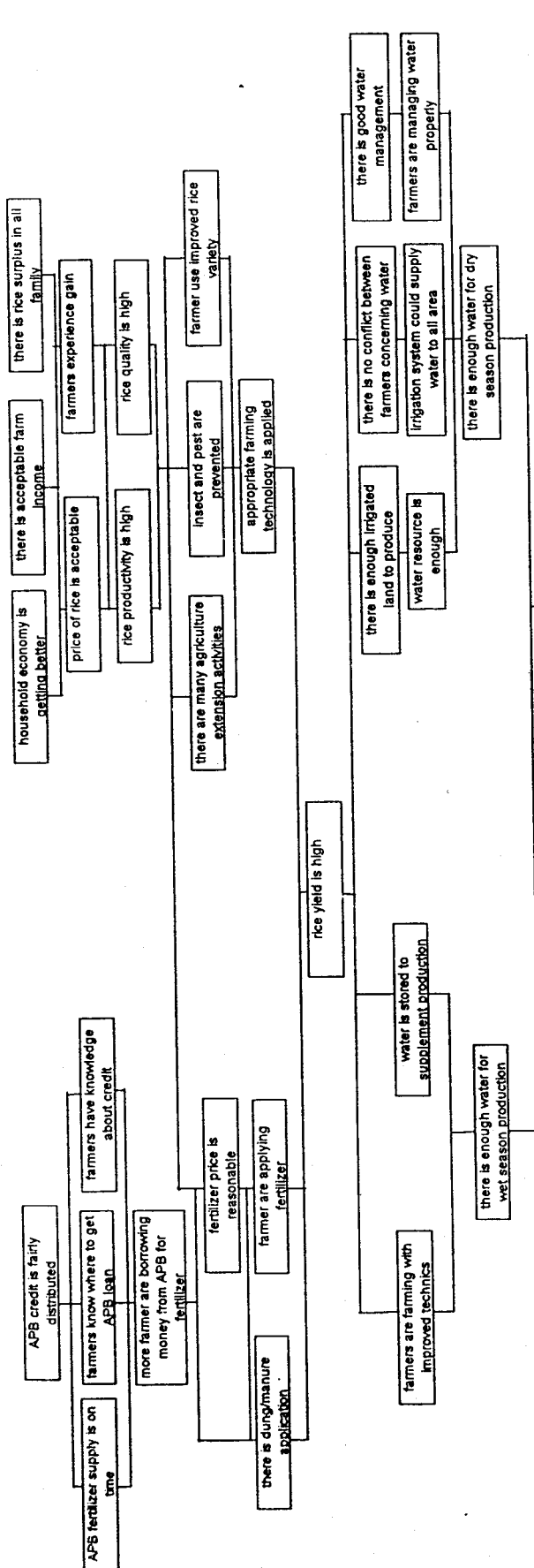
No	Names	Address	Position
1	Mr. Sengsavanh	DAFO, Sayphouthong	Technician, Cropping Section
2	Mr. Souvanh	DAFO(TFT)	Technician, Irrigation Section
3	Mr. Bounpheng	DAFO, Sayphouthong	Chief of DAFO
4	Mr. Boun Keuth	Nakham Nua(North)Village	Chief of Village Area
5	Mr. Boun Lone	Nakham Tay(South)Village	Chief of Village
6	Mr. Gnak	Nakham Tay(South)Village	Villager
7	Mr. Seng	Nakham Nua(North)Village	Chief of Village
8	Mr. Phoukhong	Commerce District Office	Officer, CDO, Sayphouthong Dist.
9	Mr. Kuang	Nakham Nua(North)Village	Elder Group of Village
10	Mr. Choum	Nakham Tay(South)Village	Elder Group of Village
11	Mr. Boun loth	Nakham Tay(South)Village	Villager
12	Mr. Duang chanh	Phone thanh village	Chief of Village
13	Mr. Pheth	Phone thanh village	Deputy Chief of Village
14	Mr. Loth	Phone thanh village	Deputy Chief of Village
15	Mr. Khamphong	Phone thanh village	Villager
16	Mr. Phong	Phone thanh village	Villager
17	Mr. Phou	Phone thanh village	Villager
18	Mr. Sao	Phone thanh village	Villager
19	Mr. Cheue	Phone thanh village	Villager
20	Mr. Tem	Phone thanh village	Villager
21	Mr. Phouvong	Phone thanh village	Villager
22	Mrs. Kane	Phone thanh village	Women Union Organisation
23	Miss. Vy	Phone thanh village	Women Union Organisation
24	Miss. Sao	Phone thanh village	Women Union Organisation
25	Mr. Souk	Phone thanh village	Teacher
26	Mr. Keo Oudone	PAFSO, Savannakhet	Technician, Planning Section



PROBLEM TREE, PHONTHAN
for rice production



PROBLEM TREE , PHONTHAN
for Livestock and Fisheries

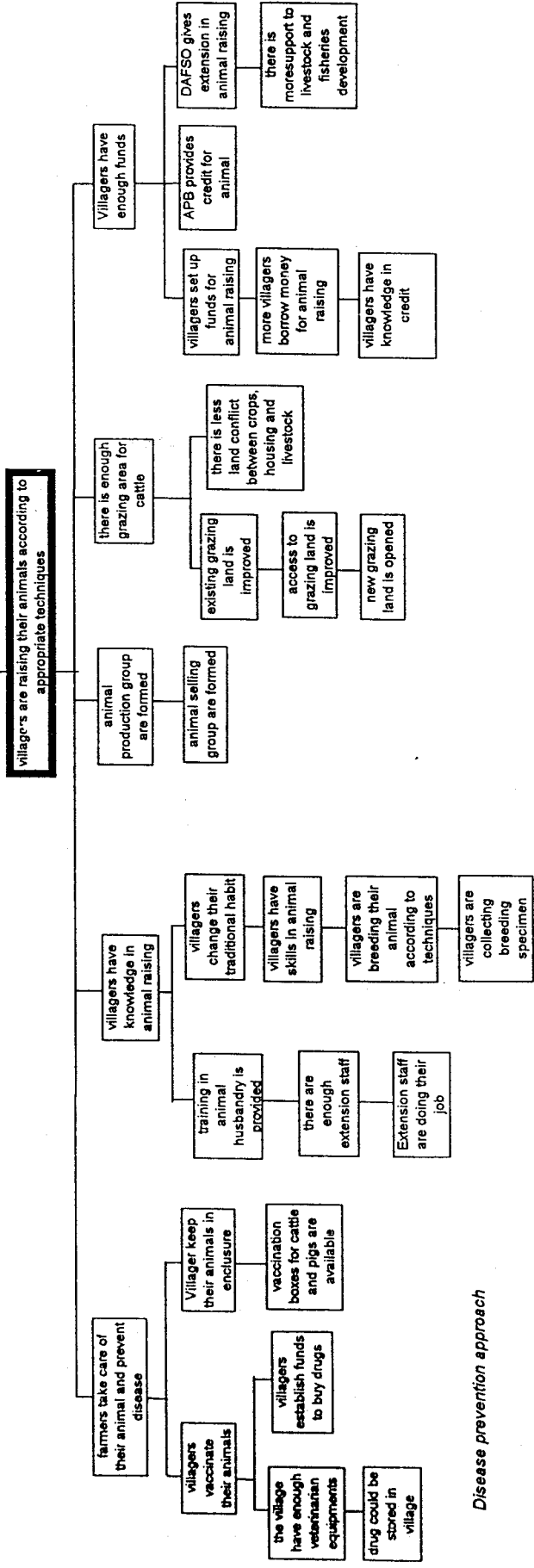
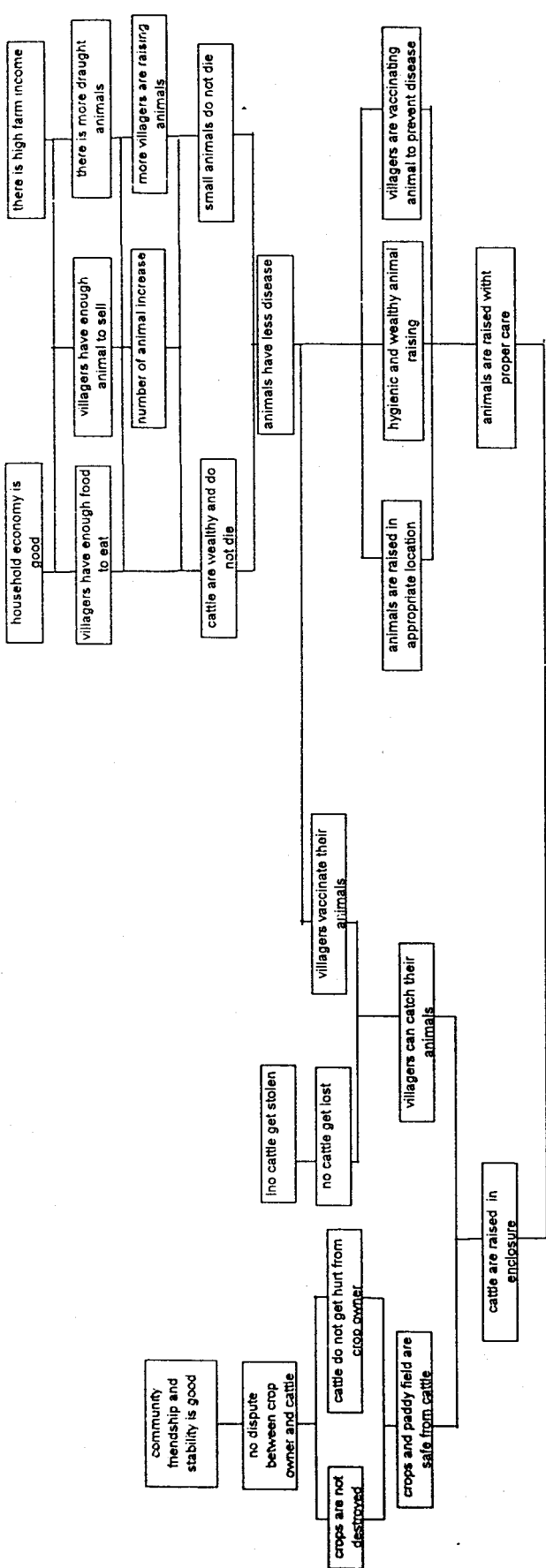


Farmer support improvement approach

Revitalization of farmers funds and capital approach

Irrigation improvement approach

OBJECTIVE TREE, PHONTHAN for rice production



Disease prevention approach

Knowledge development approach

Knowledge development approach

Revitalization of village funds for animal raising approach

PROJECT DESIGN MATRIX

Project Name: Phonthan Rice Promotion Project

Project Area: Phonthan – Nakham Area, Xayphouthong District, Savanakheth province

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <ul style="list-style-type: none"> - The overall population of the 3 villages located in the area have produced surplus rice to sell.. - The living conditions of the people in the area have been improved in relation to above development. 	<ul style="list-style-type: none"> - Average paddy production attain 500 kg/person/year - Average rainfed paddy yield attain 3,5 ton/ha - Average irrigated paddy yield attain 5 ton/ha - Average household paddy sales attain 2 ton/ha/year - Household income from paddy exceed 1,200,000 Kip 	<ul style="list-style-type: none"> - Village statistic book - DAFSO statistic book - District Planning and Cooperation Office - APB credit records - FSC records 	<ul style="list-style-type: none"> - There is no natural disasters - There is economical stability - There is no big commodity price fluctuation - There is enough water resource for irrigation
<p>Project Purpose</p> <ul style="list-style-type: none"> - Improve existing irrigation system - Improve existing agriculture extension system - Improve existing production support services - Develop and generate funds for infrastructure and farm finance - Improve production organization - Improve selling and marketing of paddy 	<ul style="list-style-type: none"> - 100 ha irrigated area in dry season - 200 ha supplementary irrigation in wet season - 9 contact farmers - 15 model farmers - 250 kg/ha of fertilizer applied - 5 ton/ha of dung/manure applied - improved seed applied at 65 kg/ha - farm mechanical equipment increased 50% - 18 credit groups - 1 joint village development funds - VDF collection 12,000,000 per year - 1 WUO - 18 production groups - 3 buying and selling group 	<ul style="list-style-type: none"> - Village statistic book - WUO records - DAFSO statistic book - PIS survey and design - APB credit records - FSC records 	<ul style="list-style-type: none"> - same as above
<p>Outputs</p> <ul style="list-style-type: none"> - the reservoir of Koutapo has been improved - the canal system of the irrigation scheme has been improved 	<ul style="list-style-type: none"> - same as above 	<ul style="list-style-type: none"> - same as above 	<ul style="list-style-type: none"> - same as above

<ul style="list-style-type: none"> - extension activities are well implanted at village level - contact farmers (or village technician) are formed and trained - model farmers are established and demonstration implemented - farmers are applying correct amount of fertilizer in each production season - farmers have knowledge and skill in pest management and control - farmers use improved seeds - farmers use mechanical equipment in their production - farmers have knowledge and skills in maintenance and repair of mechanical equipment - Short term credit and long term credit is provided to farmers by APB - Farmers have knowledge about credit - Farmers know how to use credit - Village development funds have been developed - Funds for infrastructure have been provided by the government - WUO has be strengthened - Water management regulation has been established and applied by farmers - Production groups have been established and strengthened - Buying and selling groups have been established for the marketing of rice in the area. 			
---	--	--	--

Activities	Inputs
<ul style="list-style-type: none"> - increase the level of the dike by 1.50 m - construct and repair gates and drains - construction of canals and structures - repair access road - establishment and training of contact farmers - increase number of model farmers - establish and strengthen production groups - training of farmers - provide improved seeds - seed propagation - provision of pesticide - establishment of village pesticide funds - improve the fertilizer supply system including credit by kind - establish and strengthen credit groups - training credit groups in credit and finance - establish VDF in coordination with water management regulation - collect VDF - develop and strengthen the WUO - develop water management system - establish internal regulation of WUO - training of WUO committee and members - establish and strengthen buying and selling groups - construct storage facilities for paddy - construct sun drying facilities - establish market center 	<p>Irrigation and rural infrastructure improvements (government 60%, Villagers 30%, APB 10%)</p> <ul style="list-style-type: none"> - Reservoir earth work KIP 560,000,000 - Reservoir structure work KIP 170,000,000 - Irrigation canals KIP 200,000,000 - Irrigation structures KIP 60,000,000 <p>Training related to extension (Government 100%): KIP 8,000,000 / year</p> <p>Provision of improved seed (Government 100%) KIP 10,000,000</p> <p>Village pesticide funds (Villagers 100%) KIP 2,500,000</p> <p>Provision of credit for dry season (APB 100%) KIP 161,500,000 / year</p> <p>Training related to WUO (Government 75%, Villagers 25%) KIP 13,000,000</p> <p>Village Development Funds (Villagers 100%) KIP 60,000,000</p> <p>Credit for buying and selling group (APB 100%) KIP 5,000,000</p> <p>Construction of paddy storage (government 50%, Villagers 50%) KIP 200,000,000</p> <p>Construction of sun drying ground (government 50%, Villagers 50%) KIP 70,000,000</p> <p>Construction of market (government 50%, villagers 50%) KIP 25,000,000</p>
<p>Preconditions Villagers are willing to contribute to project</p>	

PROJECT DESIGN MATRIX

Project Name: Animal Husbandry Promotion Project
Project Area: Phonthan Area, Xayphouthong District, Savanakheth Province

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <ul style="list-style-type: none"> - Villagers are producing livestock and fisheries according to techniques and are providing enough food, capital, and commodity to sell to generate enough incomes. 	<ul style="list-style-type: none"> - 70% of animals are vaccinated - animal mortality reduced by 10% each year - number of animal increased by 70% - average income from animal raising 1 million Kip/household/year 	<ul style="list-style-type: none"> - Village statistic book - Village veterinarian book - Animal production group records - DAFSO statistic book 	<ul style="list-style-type: none"> - There is no non-curable disease - Price of animals is stable - There is enough water pond for cattle during dry season.
<p>Project Purpose</p> <ul style="list-style-type: none"> - Enhance the villagers to breed and maintain their livestock properly - Develop and strengthen animal husbandry production organization - Develop cattle raising and grazing areas - Develop small animal raising (pig, poultry) - Develop inland fisheries - Develop and strengthen extension and veterinarian support to farmers 	<ul style="list-style-type: none"> - 3 model farmers established in each village - each household has 1 cattle enclosure and 1 pig enclosure - each village has 1 animal drug storage - Average animal holding per household is 5 heads for cattle and 50 heads for small animals - 3 fishery groups established in 3 villages - 6 cattle groups established in 3 villages - 1 household has 1 fish pond - each village has 1 communal fish pond - 12 animal credit groups establish in relation to production groups. 	<ul style="list-style-type: none"> - Village statistic book - Village veterinarian book - Animal production group records - DAFSO statistic book - APB credit records 	<ul style="list-style-type: none"> - Drugs are available - There is appropriate regulations for animal breeding
<p>Outputs</p> <ul style="list-style-type: none"> - Population of cattle has increased - Population of pigs has increased - Population of poultry has increased - Fish production has increased - Cattle are raised in improved grazing areas 	<ul style="list-style-type: none"> - Same as above indicators 	<ul style="list-style-type: none"> - Village statistic book - Village veterinarian book - Animal production group records 	<ul style="list-style-type: none"> - There is enough credit

<ul style="list-style-type: none"> - Pigs and poultry are raised in animal enclosures - Villagers vaccinate their animals and follows recommendation from village veterinarian. - Credit group and production group for livestock and fisheries are formed 	<ul style="list-style-type: none"> - DAFSO statistic book - APB credit records - FSC buying records 	
<p style="text-align: center;">Inputs</p> <p>Training and demonstration per year (Government 50%, Villagers 50%):</p> <ul style="list-style-type: none"> - Training farmers in 3 villages KIP 3,000,000 - Demonstration by model farmers KIP 5,000,000 - Training of model farmers KIP 660,000 <p>Drug storage facilities in 3 villages (Government 80%, Villagers 20%) KIP 1,600,000</p> <p>Vaccination funds in 3 villages (Villagers 30%, APB 70%) KIP 6,000,000</p> <p>Improvement of grazing areas for cattle (Government 20%, Villagers 70%, APB 10%) KIP 15,000,000</p> <p>Development of household fish pond (Villagers 30%, APB 70%) KIP 10,000,000</p> <p>Fish fingerlings production (Villagers 100%) KIP 1,000,000</p> <p>Fish culture in basket in irrigation reservoir (Villagers 30%, APB 70%) KIP 1,200,000</p> <p>New cattle variety (Government 100%) KIP 3,000,000</p>		
<p style="text-align: center;">Activities</p> <ul style="list-style-type: none"> - Training in animal husbandry to farmers - Establish model farmers and develop animal raising demonstration - Training model farmers - Establish animal production groups - Training to animal production groups - Establish drug storage in 3 villages - Establish animal vaccination funds in 3 villages - Improve grazing areas for cattle - Introduction of improved variety for cattle - Promotion of household fish culture - Fish fingerling production - Fish production in basket in the irrigation reservoir. 		
<p>Preconditions</p> <p>Villagers are willing to contribute and borrow money from APB.</p>		

ANNEX 3 : THONGHARB - NAKHUA

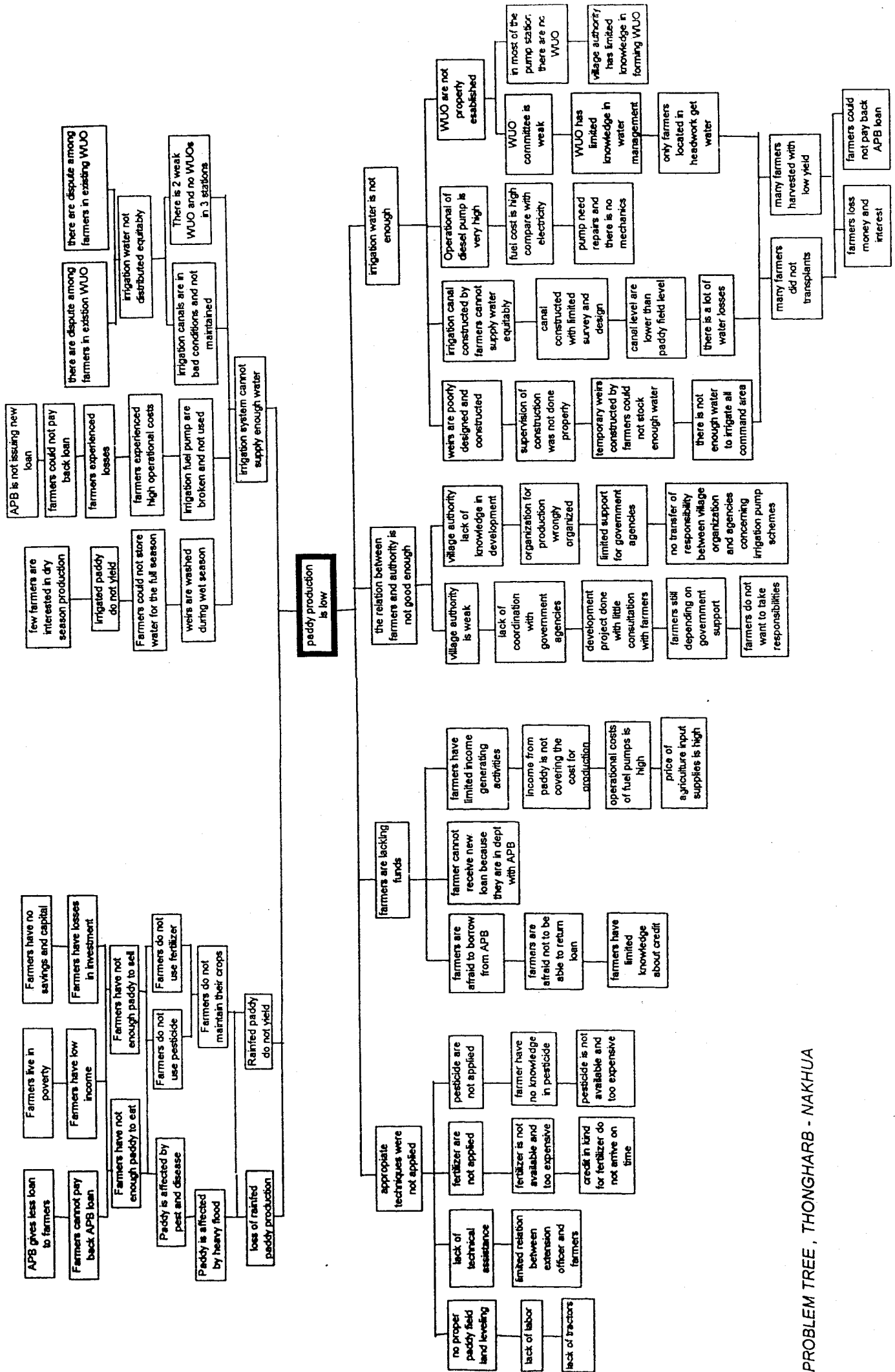
- LIST OF PARTICIPANTS
- PCM PROBLEM TREE
- PCM OBJECTIVE TREE
- PDM

List of participants, 13-15/12/99
(Seminar on PCM in Nakhua -Thongharb Villag

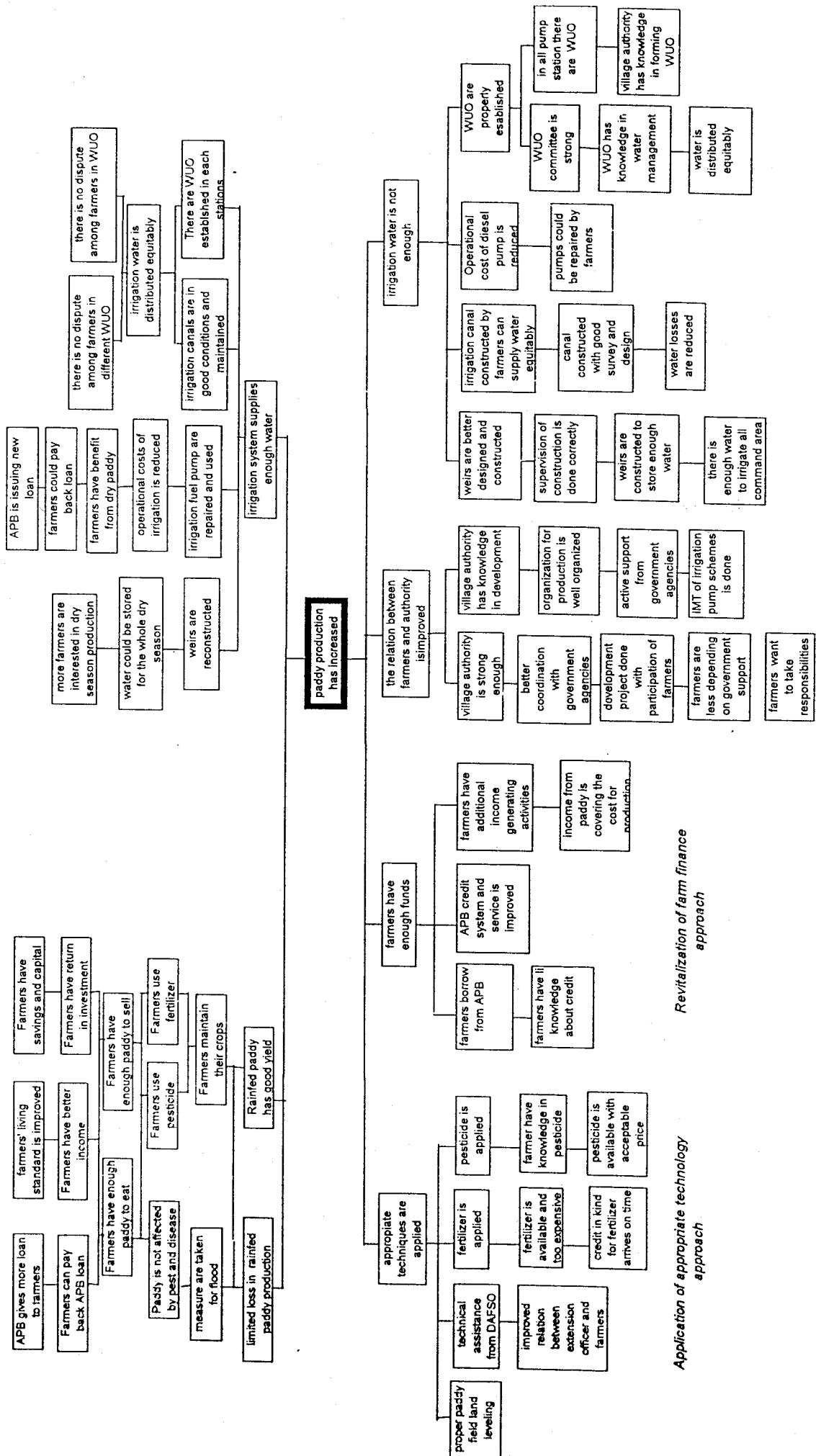
No	Names	Address
1	Mr. Kham muane	PAFSO(TFT)
2	Mr. Tha vone	PAFSO(TFT)
3	Mr. Keo	DAFSO(TFT)
4	Mr. Kham ting	Nakhua Nai Village
5	Mr. Thit Boun	Nahine Village
6	Mr. Tou	Nakhua Nai
7	Mr. Savay	Nakhua Nai
8	Mr. Chal Phong	Nakhua Nai
9	Mr. Inpanh	Food Supply Company
10	Mr. Bua kong	APB of Pakkading District
11	Mr. Khamvay	Thong Harb Village
12	Mr. Beue	Thong Harb Village
13	Mrs. Phouvang	Nahine Village
14	Mrs. Nom	Thong Harb Village
15	Mrs. Photh	Thong Harb Village
16	Mrs. Soay	Nakhua Village
17	Mrs. Khambay	Nakhua Nork
18	Mrs. May	Namdua Village
19	Mr. Boun Lith	Thong Harb Village
20	Mr. Thit Gnong	Namdua Village
21	Mr. Khen Noi	Namdua Village
22	Mr. Sisavanh	Nakhua Nork
23	Mr. Bua liene	Namdua Village
24	Mr. Bane	Thong Harb Village
25	Mr. Duang	Thong Harb Village
26	Mr. Visiene	Thong Harb Village
27	Mr. Khamtoun	DAFSO(TFT),Pakkading
28	Mr. BounLay	Thong Harb Village
29	Mr. Khamphou	Nakhua Nay
30	Mr. Tou	Nakhua Nay
31	Mr. Xieng	Nahine Village
32	Mr. Somsack	Nahine Village

**List of participants, 16-17/12/99
(Seminar on PDM in PAFSO, Borikhamxay Province)**

No	Names	Address
1	Mr. Kham muane	PAFSO(TFT)
2	Mr. Tha vone	PAFSO(TFT)
3	Mr. Keo	DAFSO(TFT)
4	Mr. Inpanh	Food Supply Company (TFT)
5	Mr. Bua kong	APB of Pakkading District(TFT)
6	Mr. KhamToun	DAFSO (TFT), Pakkading District
7	Mr. Khen Noy	Nam Dua Village
8	Mr. Thit Gnong	Nam Dua Village
9	Mr. Thit Boun	Na Hine Village
10	Mr. Sisavanh	Nakhua Nork
11	Mr. Khamting	Nam Dua Village
12	Mr. Boun Lith	Thong Harb Village
13	Mr. Manysengpheth	PAFSO
14	Mrs. Sengphachanh	FAFSO
15	Mr. Muang keo	PAFSO
16	Mr. Souma	PAFSO
17	Mr. Say Kham	PAFSO



PROBLEM TREE, THONGHARB - NAKHUA



Improvement of rural infrastructure approach

Improvement of government agencies and farmers relationship approach

Revitalization of farm finance approach

Application of appropriate technology approach

OBJECTIVE TREE, THONGHARB - NAKHUA
for rice production

PROJECT DESIGN MATRIX

Project Name: Thongharb-Nakhua Rice Promotion Project
 Project Area: Thongharb-Nakhua Area, Pakkading District, Bolikhamtai province

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal</p> <ul style="list-style-type: none"> - The overall population of the 5 villages located in the area have produced surplus rice to sell. - The area has been developed as a complete and integrated agriculture zones with consideration to water resource and environment. - The living conditions of the people in the area have been improved in relation to above development. 	<ul style="list-style-type: none"> - Average rainfed paddy yield attains 3 Tons/ha - Average irrigated paddy yield attains 4.5 Tons/ha - Average of 6 tons/year of paddy is sold per household - Income for rice amount to 4 million kip/person/year - Average savings per household is 5 million kip/year 	<ul style="list-style-type: none"> - Village statistic book - Village veterinarian book - DAFSO statistic book - District Planning and Cooperation Office - APB credit records - FSC records 	<ul style="list-style-type: none"> - There is no natural disasters - There is economical stability - There is no big commodity price fluctuation
<p>Project Purpose</p> <ul style="list-style-type: none"> - Development of the agriculture support system for farmers - Promotion of agriculture finance and credit - Development of production organization - Development of irrigated agriculture 	<ul style="list-style-type: none"> - 100% of farmers use improved rive variety fertilizer are applied at 250 kg/ha - 3 model farmers established per village (15 persons) - village development funds (VDF) established per village according to irrigation facilities: <ul style="list-style-type: none"> - Thongharb KIP 12,000,000 / year - Nakhua Nai KIP 9,600,000 / year - Nakhua Nok KIP 6,000,000 / year - Nahin KIP 3,600,000 / year - Credit groups established: <ul style="list-style-type: none"> - Thongharb 7 groups - Nakhua Nai 11 groups - Nakhua Nok 8 groups - Nahin 5 groups - Namdua 5 groups 	<ul style="list-style-type: none"> - Village statistic book - WUO records - DAFSO statistic book - PIS survey and design - APB credit records - FSC records - Paksan seed center 	<ul style="list-style-type: none"> - There is enough fund and credit - The villagers are willing to contribute for new project. - There is enough water resource for proposed irrigation scheme.

<ul style="list-style-type: none"> - 1 buying and selling group established in each village - WUO established in each irrigation system - Irrigated area 260 ha <ul style="list-style-type: none"> - Thongharb 100 ha - Nakhua Nai 80 ha - Nakhua Nok 50 ha - Nahin 30 ha 		
<p>Outputs</p> <ul style="list-style-type: none"> - Villagers have improved their production and yield and are able to sell rice - Productivity and yield of rainfed and irrigated paddy have been improved - Improved rice variety are introduced - Farmers are applying fertilizer at acceptable ratio - Model farmers have been established - WUOs have been established and strengthened to manage their own irrigation scheme - Credit groups have been established to receive credit support for APB - Buying and selling groups have been established to support the marketing of rice - Village Development Funds have been established and collection of the VDF implemented every year - Irrigation systems in the whole areas has be improved with consideration of water resource availability. 	<ul style="list-style-type: none"> - same as above 	<ul style="list-style-type: none"> - the government can provide enough budget for irrigation improvement. - APB can provide long term loan to farmers
	<ul style="list-style-type: none"> - same as above 	

Activities	Inputs
- provision of improved seed variety	Provision of credit for input supplies per year (all 100% from APB):
- provision of fertilizer to wet and dry season production	- Fertilizer KIP 100,000,000
- provision of pesticide	- Land preparation KIP 156,000,000
- training farmers on rice production techniques	- Fuel KIP 88,000,000
- establish demonstration plots by model farmers	- Seeds KIP 46,800,000
- training model farmers on specific techniques	- Pesticides KIP 15,600,000
- study tour for farmers in more developed areas	Training per year (government 100%):
- establish WUO	- Training farmers (technical, demonstration) KIP 15,000,000
- training to WUO committee in water management and other subjects	- Training WUO and Farmer groups KIP 5,700,000
- strengthen the village organization	Irrigation and rural infrastructure development (Government 85%, Villagers 15%)
- training of village committee in different subject related to production and irrigation	- construct weir 1 at Nam Dua
- establish buying and selling groups for paddy	- construct weir at Huay Sane
- establish credit groups in relation to above groups	- construct weir 2 at Nam Dua
- training credit groups in credit knowledge	- repair existing fuel pumps KIP 6,500,000,000
- construct weir at Nam Dua River for Thonharb	- irrigation canals.
- construct weir at Huay Sane for Nakhua and Nahin	- access road to Thonharb
- construct weir at Nam Dua for Nakhua	- access road to Nahin
- repair existing fuel pumps	(government contribution to be developed as VDF)
- construct irrigation canals at Thonharb, Nakhua Nai, Nakhua Nok, and Nahin.	Land Opening at Nam Dua (APB 60%, Villagers 40%)
- Construct 2 km access road to Thonharb	KIP 54,000,000
- Repair 2 km access road to Nahin	
- Open new land for paddy at Nam Dua (30 ha)	
Preconditions	
Villagers are willing to contribute to project	