

## ***APPENDIX - R***

### ***Strengthening Plan of Agricultural Supporting Services***

## **APPENDIX - R STRENGTHENING PLAN OF AGRICULTURAL SUPPORT SERVICES**

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## **APPENDIX - R    STRENGTHENING PLAN OF AGRICULTURAL SUPPORT SERVICES**

### **Chapter 1    APPROACHES FOR FORMULATION**

The approaches employed for the formulation of the strengthening plan of the agricultural support services in the present study are basically the same ones as the approaches taken for the Master Plan Study as illustrated in Figure R 1.1 and are the comprehensive study on:

- a) Identification of area specific technical constraints or problems on agriculture and agricultural support services, general directions for development and areas specific needs for support programmes through the PCM Workshops and the detail inquiry surveys to the farmer representatives (participants for the Workshops),
- b) Review of the constraints on agriculture and agricultural support services identified in the Master Plan Study and the identification of the constraints through the further study and discussion with the related agencies on the current status and weakness of the fields of agriculture and agricultural support services in the Project areas,
- c) Requirements for support programmes dictated by the proposed agricultural development plan (potential realisation of irrigated agriculture) and the agricultural related income generation plans,
- d) Establishing priority areas to be addressed under the Project on the basis of a) to c),
- e) Planning of agricultural support programmes by scheme, and
- f) Formulation of implementation schedules of support programmes by scheme and agency, and formulation of the overall work programme.

## **Chapter 2    TECHNICAL AND INSTITUTIONAL CONSTRAINTS AND NEEDS FOR STRENGTHENING OF AGRICULTURAL SUPPORT SERVICES**

In the present study, the constraints for the attainment of the project objectives of the potential realisation of irrigated agriculture are studied from the technical and institutional aspects. The technical constraints or problems and the needs for support programmes for the potential realisation have been examined intensively through the PCM Workshops held in the project schemes, the detail inquiry surveys to the participants of the Workshops and the discussion with the field extension staffs. The institutional constraints are identified through the discussion with the executing agencies and their staffs. Further, the status and institutional weaknesses of the agencies involved in the agriculture related income generation have also been studied. On the basis of the identification of the technical and institutional constraints for the envisaged agricultural development, the needs for support programmes are discussed in the present section.

### **2.1      Technical Constraints**

The technical constraints or agronomic problems common to irrigated agriculture in the Project areas have been studied through: 1) the discussion with the extension agencies and their field staffs, 2) secondary data collection on cropped areas and crop yields and 3) field surveys. Further, the area/scheme specific technical problems and constraints have been studied through the intensive questionnaire surveys to the representatives of FOs and field level extension staffs, AIs and FAs/ADPAs, which were carried out at the times of the PCM Workshops. The technical constraints identified and common to crop production in the Project areas are: 1) stagnant productivity of paddy, 2) low cropping intensity in irrigated area, 3) crop losses due to pests, diseases, weed infestation and elephant attack, 4) unstable OFC production and limitation in crop diversification, 5) increased production costs, 6) tiny parcelled paddy fields and 7) marketing problems of OFC. The area specific technical constraints identified through the inquiry surveys are presented in Table R 2.1. The major constraints or problems reported by the respondents are almost similar in all the project schemes as shown in the Table and as summarised below (Details are explained in Appendix N).

### Major constraints or Problems Reported by Respondents

Scheme	Major Constraints/Problems (Descending Order of Severity) 1/
Nachchaduwa	i) Irrigation water shortage/water supply not in time; ii) shortage of capital for farming / difficulty in getting credit; iii) low yield of paddy; iv) difficulty in procuring quality seed/paddy; v) high costs of farm inputs
Palukadawela	i) Irrigation water shortage/water supply not in time; ii) shortage of capital for farming / difficulty in getting credit; iii) low yield of paddy; iv) difficulty in procuring quality seed/paddy; v) crop losses caused by elephants
Periyakulama	i) Irrigation water shortage/water supply not in time; ii) shortage of capital for farming / difficulty in getting credit; iii) difficulty in procuring quality seed/paddy; iv) crop losses caused by elephants; v) land fragmentation
Mahananneriya	i) Irrigation water shortage/water supply not in time; ii) shortage of capital for farming / difficulty in getting credit; iii) difficulty in procuring quality seed/paddy; iv) low yield of paddy; v) no attractive farming technology for paddy
Cascade VII	i) Irrigation water shortage/water supply not in time; ii) shortage of capital for farming / difficulty in getting credit; iii) crop losses caused by elephant; iv) difficulty in procuring quality seed/paddy; v) low yield of paddy

1/: Selected major constraints/problems reported by FO representatives, FAs/ADPAs & AIs

## 2.2 Institutional Constraints for Agricultural Support Services

The institutional problems and constraints in the present agricultural supporting services covering the fields of agricultural research, agricultural extension, agricultural credit and seed supply and distribution as well as the weakness in farmers/ FOs supporting institutions and the problems with the institutional issues were identified through the review of the previous study and the past extension projects, the discussion with the extension agencies concerned and their field level staffs, and studied in detail in the Master Plan Study. Among the constraints identified, the important ones to be accessed for the attainment of the primary project objectives of the potential realisation of irrigated agriculture in the Project areas are shown by sub-sector in Table R 2.2 and summarised as follow;

### Agricultural Support Services Sub-sector (Agricultural Extension)

- Insufficient extension services, insufficient deployment of extension staff; extension system within the capability of current manpower resources yet to be established ,
- Weakly established co-ordination & collaboration among institutions,
- Farmer participatory approaches yet to be established,
- FAs/ADPAs expected to take important roles in village extension activities have limited experiences and skills, and
- Supervision and guidance by provincial and district level senior staff limited; poor logistic support; poorly equipped or established training institutions.

### Agricultural Support Services Sub-sector (Agricultural Research)

- Wide gaps between research and farm yields and lack of site specific technologies attractive to farmers, and
- Poor establishment of research-extension-farmers linkage.

#### Agricultural Support Services Sub-sector (Seed Production & Supply)

- Government & private seed supply capacity failing to meet demand; insufficient supply of quality seed & planting materials; failure in timely distribution, and
- Poorly established provincial seed farm for production of quality fruit planting materials.

#### Agricultural Support Services Sub-sector (Agricultural Credit)

- Insufficient coverage of cultivation loans, high transaction costs & cumbersome procedures and difficulties in meeting credit eligibility criteria set by banks.

#### Livestock Sub-sector

- Poor extension activities/coverage in animal husbandry and poor logistic support.

#### Inland Fisheries Sub-sector

- Insufficient extension activities/coverage, inadequate technical skills of extension staff and poor logistic support.

#### Farmers/FOs Support Institutions & Facilities

- Poorly established or lack of facilities/equipment, inadequate technical skills of extension staff and poor logistic support.

#### Institutional Issues

- Involvement of multitude of institutions in development, and
- Weakly established co-ordination & collaboration among institutions.

## **2.3 Needs for Support Programmes**

With the primary objectives of the potential realisation of irrigated agriculture and the promotion of income generation in the Project areas, the agricultural sector development strategies accommodated in the development plans under the Project include: 1) improvement of crop productivity and cropping intensity, 2) promotion of crop diversification and 3) income generation through the promotion of livestock, inland fishery and fruit production. For the materialisation of the envisaged development of the agriculture sector, the employment of approaches in which the problems and constraints for the development are duly addressed through the improvement and strengthening of the agricultural support services and the strengthening of the institutions involved in the services will be essential. Therefore, the areas to be addressed in the support programmes under the Project should cover both the areas of supporting activities and the areas aiming at the strengthening of the institutions.

## **Chapter 3 AREAS TO BE ADDRESSED AND PROPOSED SUPPORT PROGRAMMES**

### **3.1 Areas to Be Addressed**

The areas to be addressed for the strengthening of agricultural supporting services and proposed support programmes have been studied in accordance with the approaches for the formulation of the strengthening plan of the services discussed earlier. The results are presented in Table R 3.1. As shown in the Table, the constraints or weakness in the agricultural sector and agricultural support services, and the proposed agricultural development of the Project dictate that the areas to be addressed for the strengthening of agricultural support services for the development should include: i) agricultural support programmes consisting of agricultural extension & research, seed production & supply, agricultural credit, institutional strengthening of agricultural extension agencies, and ii) strengthening of farmers/FOs support institutions and facilities; as identified in the Master Plan Study.

The areas to be addressed for supporting the agricultural related income generation plans should include the followings as dictated by the programmes accommodated in the plans and the weakness of the related sectors of crop sub-sector (planting material production), livestock sub-sector and inland fisheries sub-sector identified in Chapter 2.

**Areas to Be Addressed for Supporting Income Generation Plans**

Sub-sector	Areas to Be Addressed
Crop	Upgrading provincial seed farm to enhance planting materials production
Livestock	Upgrading of the IFTC, Nikaweratiya & strengthening of logistic support
Inland Fisheries	Establishing extension activities of NAQDA

### **3.2 Proposed Support Programmes**

The proposed support programmes under the Project consist of agricultural support programmes, strengthening of farmers/FO support institutions & facilities and support programmes for income generation. The proposed support programmes to be implemented in the individual project schemes under the present Project are shown in Table R 3.1. The descriptions of individual support programmes covering scope of programme, objectives, programme components, target groups, executing agencies and the estimated programme costs of the same are presented in Table R 3.2 and summarised in the following table. Among the support programmes in the table, the institutional strengthening programme, the



strengthening of farmers/FOs support institutions & facilities except for the establishment of “Farmer Center” and the support programmes for income generation are implemented by the Project, province or district basis.

### **Proposed Support Programmes under the Project**

<b>Agricultural Support Programmes</b>	<b>Implementation</b>
<b><i>Extension Programmes - Field Programme</i></b> 1. Adaptive trials 2. Small-scale demonstration 3. Cropping pattern demonstration 4. Large-scale demonstration 5. Productivity increase programme 6. IPM	By Scheme
<b><i>Extension Programme - Farmer Training Programme</i></b> 1. Induction farmer training 2. Induction farmer guidance 3. Farmer training 4. Workshop/mass guidance 5. Campaign 6. Study tour	By Scheme
<b><i>Seed Production Programme</i></b> 1. Paddy seed production programme 2. OFC seed production programme	By Scheme
<b><i>Agricultural Credit Programme</i></b> 1. Cultivation loan / revolving funds 2. Medium term credit programme	By Scheme
<b><i>Institutional Strengthening Programme</i></b> 1. Logistic support strengthening 2. Staff training programme 3. Institutional strengthening 4. Upgrading ISTI, M. Illuppallama	By Project
<b>Strengthening of Farmers/FOs Support Institutions &amp; Facilities</b>	
1. Establishment of “Farmer Center” 2. AS Center strengthening programme 3. Institutional strengthening programme	By Project
<b>Support Programmes for Income Generation</b>	
1. Upgrading of Seed Farm, Galgamuwa 2. Upgrading of IFTC, Nikaweratiya 3. Logistic support strengthening, PDAHPS 4. Establishment of AEC, NAQDA	By Project

Note: Implementation by scheme: programmes implemented by scheme basis; by Project: programmes implemented by project, province or district basis

Establishment of “Farmer Center” be implemented by scheme basis

## Chapter 4 IMPLEMENTATION SCHEDULES AND OVERALL WORK PROGRAMMES

### 4.1 Implementation Schedules and Plan of Operation

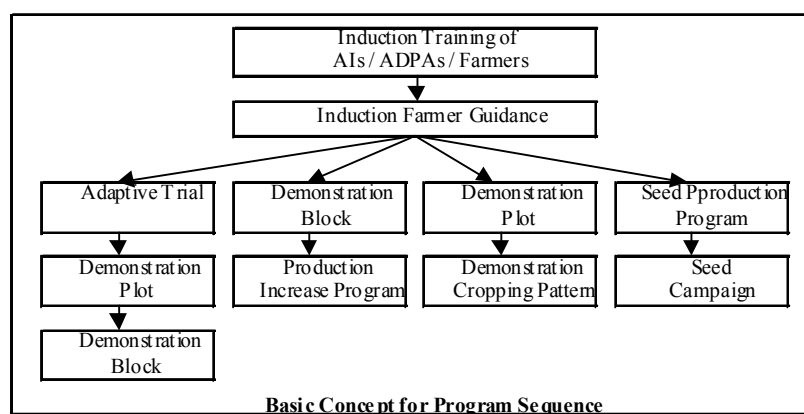
#### 4.1.1 Implementation Schedules

##### (1) Formulation of Implementation Schedules of Agricultural Support Programmes

The implementation schedules of the crop sub-sector or agricultural support programmes in individual schemes have been formulated taking into account the implementation schedules of the irrigation and drainage works in the project schemes and the support activities of the irrigation and farmer organisation sectors and on the basis of the following approaches or assumptions.

##### Basic Programme Sequence

The adequate sequence of implementation of support programmes and the integration of the same will differ depending on the stage of advancement in target crop production in a target scheme or area. However, as a basic tool for the formulation of the implementation plan and to ensure the adoption of relevant logistic approach for the same, the basic programme sequence has been introduced. The following figure is an example of such sequence. Similarly, the conceptual framework for the integration of programme implementation applied in the formulation is illustrated in Figure R 4.1.



##### Need for Support Programmes by Schemes

The needs for support programmes and the proposed programmes by schemes shown in Table R 3.1, which were identified or proposed on the basis of the approaches for the formulation shown in Figure R 1.1 and of the requirements dictated by the proposed agricultural development plans in the individual project schemes, are to be duly taken into consideration in the formulation.

### Seasonal Programme Volume

The seasonal maximum field programmes per scheme are estimated on the basis of the estimated number of field extension staff (AI) assigned to individual schemes and their capability in implementing the programmes as assumed below.

AIs of IPEU 6 – 8 programmes/season; assumed fully assigned to project schemes

AIs of PDOA 3 – 4 programmes/season; assumed partly assigned to project schemes

### Implementation Agencies

In accordance with the current arrangement in the extension services, the agricultural support programmes in Nachchaduwa Schemes are implemented by the IPEU. The same in schemes located in NCP and NWP are by the PDOA, NCP and NWP, respectively. The agricultural credit programmes are to be administered by the project management organisation to be established under the Project in collaboration with the DAS or banks.

### Formulation of Implementation Schedules

The overall implementation schedules for the agricultural support programmes have been formulated for the period of three to five years depending on the size of the schemes, the schedules of irrigation works and the current status of crop production in the project schemes. The implementation of the support programmes is scheduled to start simultaneously with or prior to the commencement of the implementation of the construction works aiming at the earlier expansion of extension coverage. The formulation of the implementation schedules has been made through the comprehensive study on the programme requirements by scheme, the said approaches and assumptions in the previous paragraphs, the schedules of irrigation works and the implementation schedules of the support activities of the irrigation and farmer organisation sectors.

#### (2) Implementation Schedules in Other Support Programmes

The implementation schedules of the support programmes in other sectors or sub-sectors have been formulated taking into account of the implementation schedules of income generation plans, irrigation works, crop sub-sector support programmes and other implementation schedules under the Project.

#### (3) Proposed Implementation Schedules

The proposed overall implementation schedules of the support programmes by scheme are presented in Table R 4.1 and the same for the entire project schemes are shown in Table R 4.2. The schedules are the basic ones and are to be reviewed through the participatory approach for programme planning proposed in Chapter 5.

#### 4.1.2 Plan of Operations

The plan of operations on the strengthening of agricultural support services in the individual project schemes covering the agricultural support programmes and other extension related support programmes are formulated in accordance with the implementation schedules of the same as presented in Table R 4.3. Similarly, the plan of operations for the strengthening of agricultural institutions under the Project, which cover the support programmes for i) the institutional strengthening programme for crop sub-sector extension agencies, ii) the strengthening of farmers/FO support institutions and facilities and iii) income generation, are formulated as shown in Table R 4.4. The plans have been formulated taking into account of the schedules for the awareness programmes and the improvement & rehabilitation of irrigation facilities in the project schemes.

#### 4.2 Annual and Overall Work Programme

The annual programme costs for the agricultural support programmes under the Project are estimated on the basis of the programme costs presented in Table R 3.2 and the proposed implementation schedules shown in Table R 4.1 and 4.2. The annual work programme (AWP) and the overall work programme (OWP) of the support programmes by scheme, which present the annual and overall implementation schedules and the annual and overall cost schedules, are presented in Table R 4.5. The same for the province or district base programmes and for the overall Project are shown in Table R 4.6.

The summary table of the overall programme costs schedule is presented in Table R 4.7. The overall programme costs are estimated at Rs. 94.1 million and the overall programme costs by programme category and sub-sector are estimated as follows;

The summary table of the overall programme costs is presented in Table R 4.7. Similarly, the programme costs by implementation agency is summarised in Table R 4.8. As shown in Table R 4.7, the overall costs for all the support programmes under the Project are estimated at Rs. 138.1 million. The overall programme costs by programme category and sub-sector are summarised as follows;

**Estimated Support Programme Costs (Unit: Rs. Million)**

Programme Category / Sub-sector	Estimated Costs	Proportion (%)
Agricultural Support Programmes	72.6	52.6
Farmers/FOs Supporting Institutions/Facilities	41.7	30.2
Support Programmes for Income Generation	23.8	17.2
- Crop Sub-sector	11.1	-
- Livestock Sub-sector	9.4	-
- Inland Fishery Sub-sector	3.3	-
<b>Total</b>	<b>138.1</b>	<b>100.0</b>

The agricultural support programmes and the strengthening of farmers/FOs supporting institutions/facilities account for 51 % and 31 % of the total support programme costs, respectively, as shown in the table.

The programme costs by the implementation agencies are estimated as shown in Table R 4.8 and summarised in the following table.

<b>Estimated Support Programme Costs by Agency</b>		
Implementation Agency	Estimated Costs (Rs. Million)	Proportion (%)
IPEU	11.8	8.5
PDOA, NCP	10.9	7.9
PDOA, NWP	21.5	15.6
DAS, Anuradhapura	20.6	14.9
DAS, Kurunegala	18.4	13.3
PDAPH, NCP	0.1	0.1
PDAPH, NWP	9.3	6.7
NAQDA	3.2	2.3
PMU 1/	42.3	30.6
<b>Total</b>	<b>138.1</b>	<b>100.0</b>

PMU (Project Management Unit)

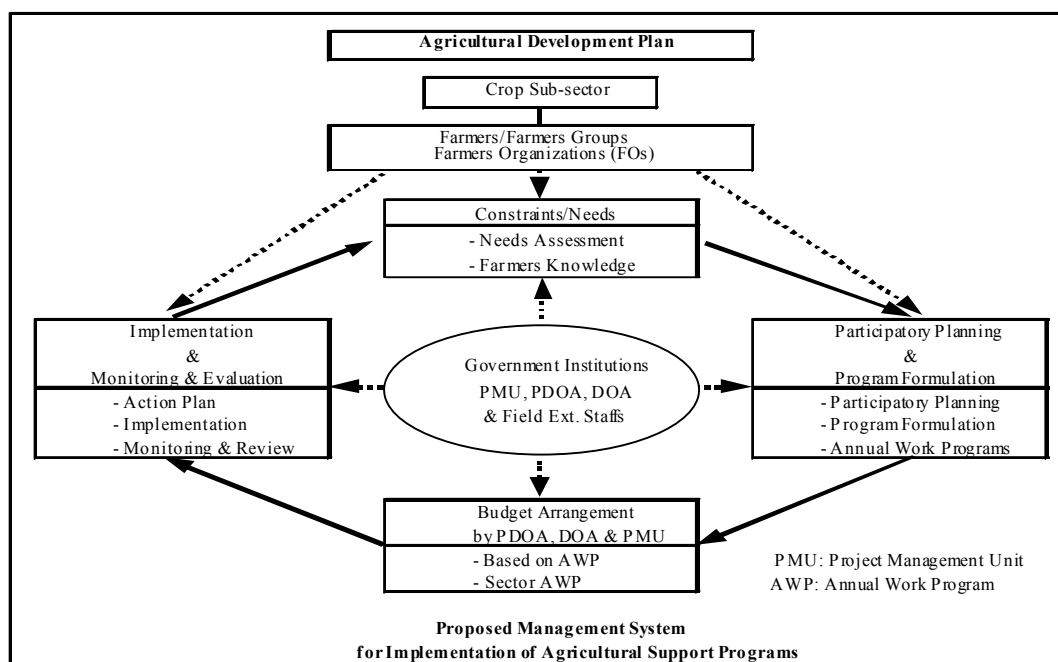
## **Chapter 5    PROPOSED MANAGEMENT SYSTEM FOR IMPLEMENTATION PLAN OF SUPPORT PROGRAMMES**

### **5.1    Proposed Management System and Institutional Set-up for Agricultural Support Services**

The concepts for the establishment of the management system and the institutional set-up for the planning, implementation and monitoring & evaluation of the agricultural support programmes under the Project are:

- Management of the planning and implementation of the agricultural support programmes is to be performed under the rolling plan concept, in which the Annual Work Programme (AWP), annual implementation schedule and annual cost schedule, of the individual project scheme is to be reviewed and updated annually on the basis of the lesson learnt from the implementation of the programmes in a preceding year and the participatory approach for their planning,
- Strengthening of agriculture extension services in the crop sub-sector is to be aimed at within the present policy and institutional framework and through the strengthening of co-operation and collaboration between the IPEU/PDOAs and the DAS,
- Enhancement of farmers contribution in extension as well as institutionalisation of their participation in extension activities from the planning stage,
- Strengthening of research-extension-farmer linkage is to be sought within the programme implementation, and
- Management of support programmes of sub-sectors other than the crop sub-sector should be executed under the present system and under the supervision of the project management body as the programmes in such areas are limited in scale.

On the basis of the said concepts, the overall management system for the implementation of agricultural support programmes under the Project and the same for the crop sub-sector are proposed as shown in Figure R 5.1 and 5.2, respectively. The proposed management system consists of four basic actions of: 1) identification of constraints and needs, 2) participatory planning & programme formulation (review & updating of AWP), 3) budget arrangement and 4) programme implementation and monitoring & evaluation as shown in the following figure.



The basic time framework for planning and implementation of the agricultural support programmes under the Project will be as shown in Table R 5.1, which indicates the sequence of: 1) workshop for annual programme formulation, 2) programme formulation, 3) preparation of AWP, 4) budget arrangement, 6) preparation of action plan and programme implementation.

The institutional set-up for the implementation of the crop sub-sector support programmes proposed in accordance with the present institutional set-up of the PDOAs and IPEU is shown in Figure R 5.3. The PDOA, NCP and IPEU, Anuradhapura are the extension agencies responsible for the implementation of crop sub-sector support programmes in NCP. The PDOA, NWP is the agency for the programmes in NWP as shown in the Figure. The overall agricultural extension network including the institutional set-up in the Project will be established as shown in Figure R 5.4.

## 5.2 Proposed Extension System and Research-Extension-Farmers Linkage in Crop Sub-sector

The extension system and research-extension-farmers linkage in the crop sub-sector similar to the currently established system should be established as shown in Figure R 5.5 under the Project. The basic extension approaches involved in the system are: 1) approach through farmer groups or FOs and 2) participatory approach in planning process; to be top-down as well as bottom-up and reciprocal. In the aspect of the research-extension-farmers linkage, the aim under the Project is the activation of the system and the strengthening of the linkage through the allocation of necessary fund and through the research related programme implementation.

# TABLES



**Table R 2.1 Constraints for Irrigated Farming and Needs for Support Programmes Identified through Inquiry Surveys - 1/3**

**Scheme: Nachchaduwa Major Schme**

Irrigation Command Area (ha)	2,540	Target Annual Cropping Pattern	Paddy	170 %	
No. of Paddy Land Owners (No. 3,570)			OFC	30 %	
Current Cropping Intensity (%)	160	Current Paddy Yield (t/ha)	Maha: 4.4	Yala: 3.8	
Target Cropping Intensity (%)	200	Target Paddy Yield (t/ha)	Maha: 5.0	Yala: 5.0	
No. of FOS	14	No. of AIs Concerned	4	No. of FA/ADPAs Concerned	13

**Scheme: Palukadawela Major Schme**

Irrigation Command Area (ha)	956	Target Annual Cropping Pattern	Paddy	128 %		
No. of Paddy Land Owners (No.	970		OFC	20 %		
Current Cropping Intensity (%)	145	Current Paddy Yield (t/ha)	Maha:	3.6	Yala:	2.7
Target Cropping Intensity (%)	148	Target Paddy Yield (t/ha)	Maha:	5.0	Yala:	5.0
No. of FOs	7	No. of AIs Concerned	3	No. of FA/ADPAs Concerned	7	

<b>Constraints Reported by Participants 1/</b>	<b>Needs for Support Programmes Reported by Participants 2/</b>
<b>By FO Representatives</b>	<b>By FO Representatives</b>
1st Irrigation water shortage/water supply not on time	1st IPM, paddy
2nd Shortage of capital for farming/difficulty in getting credit	2nd Adaptive trials on paddy
3rd Low yield, paddy	3rd Seed production Programme, paddy
4th Difficulty in procuring quality seed, paddy	4th Small scale demonstration plot, paddy
5th No attractive farming technology for paddy	5th Farmer training on on-farm water management
6th Pest & disease	6th Farmer training on farming practices, paddy
7th Weed Problem	7th Farmer training on marketing
<b>By FA/ADPAs</b>	<b>By FA/ADPAs</b>
1st Irrigation water shortage/water supply not on time	1st Farmer training on irrigation water management
2nd High costs of farm inputs(fertilizer, agro-chemicals, seed)	2nd Adaptive trials on paddy
3rd Low yield, paddy	3rd Seed production Programme, paddy
4th Difficulty in procuring quality seed, paddy	4th Farmer training on on-farm water management
5th No attractive farming technology for paddy	5th IPM, paddy
5th Shortage of capital for farming/difficulty in getting credit	6th IPM, OFC
5th Weed Problem	7th Paddy productivity increase Programme
<b>BY AIs</b>	<b>BY AIs</b>
1st Shortage of capital for farming/difficulty in getting credit	1st Farmer training on on-farm water management
2nd Irrigation water shortage/water supply not on time	2nd IPM, paddy
3rd Difficulty in marketing of products	3rd Large scale demonstration plot, paddy
4th High costs of farm inputs(fertilizer, agro-chemicals, seed)	3rd Cropping pattern demonstration
5th No attractive farming technology for paddy	5th Farmer training on farming practices, OFC/vegetables
5th Difficulty in procuring fertilizer/agro-chemicals	6th Paddy productivity increase Programme
7th Difficulty in procuring quality seed, paddy	7th Small scale demonstration plot, paddy

<b>Constraints Reported by Participants 1/</b>	<b>Needs for Support Programmes Reported by Participants 2/</b>
<b>By FO Representatives</b>	<b>By FO Representatives</b>
1st Irrigation water shortage/water supply not on time	1st Adaptive trials on paddy
2nd Shortage of capital for farming/difficulty in getting credit	2nd Farmer training on on-farm water management
3rd Low yield, paddy	3rd Adaptive trials on paddy
4th Difficulty in procuring quality seed, paddy	4th Cropping pattern demonstration
5th Wild animal, elephant	5th Paddy productivity increase Programme
6th Difficulty in procuring fertilizer/agro-chemicals	6th Small scale demonstration plot, paddy
7th High costs of farm inputs(fertilizer, agro-chemicals, seed)	7th Farmer training on marketing
	7th Farmer training on irrigation water management
	7th Seed production Programme, paddy
	7th IPM, OFC
<b>By FA/ADPAs</b>	<b>By FA/ADPAs</b>
1st Irrigation water shortage/water supply not on time	1st Small scale demonstration plot, paddy
2nd Wild animal, elephant	2nd Paddy productivity increase Programme
3rd Shortage of capital for farming/difficulty in getting credit	2nd IPM, paddy
4th Difficulty in procuring quality seed, paddy	4th Cropping pattern demonstration
5th Low yield, paddy	5th Farmer training on on-farm water management
5th High costs of farm inputs(fertilizer, agro-chemicals, seed)	6th Adaptive trials on paddy
7th Difficulty in procuring quality seed, OFC	7th Seed production Programme, paddy
<b>BY AIs</b>	<b>BY AIs</b>
1st Irrigation water shortage/water supply not on time	1st Paddy productivity increase Programme
2nd Low yield, paddy	1st Small scale demonstration plot, paddy
3rd Shortage of capital for farming/difficulty in getting credit	1st Seed production Programme, paddy
4th Poor soil fertility	1st Farmer training on farming practices, paddy
	5th Large scale demonstration plot, paddy
	6th IPM, paddy
	7th Farmer training on on-farm water management

1/: Descending order of severity: 1st to 5th serious constraints reported by individual were scored by weighted method & rating was made based on total scores gained by each constraint

2/: 1st to 7th priority reported by individual were scored by weighted method & rating was made based on total scores gained by each support Programme

**Table R 2.1 Constraints for Irrigated Farming and Needs for Support Programmes Identified through Inquiry Surveys -2/3**

**Scheme: Periyakulama Medium Scheme**

Irrigation Command Area (ha)	91	Target Annual Cropping Pattern	Paddy	135 %
No. of Paddy Land Owners (No.	80		OFC	11 %
Current Cropping Intensity (%)	121	Current Paddy Yield (t/ha)	Maha:	4.2 Yala: 3.6
Target Cropping Intensity (%)	157	Target Paddy Yield (t/ha)	Maha:	5.0 Yala: 5.0
No. of FOs	1	No. of AIs Concerned	1	No. of FA/ADPAs Concerned 1

**Scheme: Mahananneriya Medium Scheme**

Irrigation Command Area (ha)	158	Target Annual Cropping Pattern	Paddy	188 %
No. of Paddy Land Owners (No.	260		OFC	10 %
Current Cropping Intensity (%)	198	Current Paddy Yield (t/ha)	Maha:	2.7 Yala: -
Target Cropping Intensity (%)	100	Target Paddy Yield (t/ha)	Maha:	5.0 Yala: 5.0
No. of FOs	1	No. of AIs Concerned	1	No. of FA/ADPAs Concerned 1

<b>Constraints Reported by Participants 1/ By FO Representatives (19 farmers)</b>	<b>Needs for Support Programmes Reported by Participants 2/ By FO Representatives (19 farmers)</b>
1st Irrigation water shortage/water supply not on time	1st Farmer training on on-farm water management
2nd Shortage of capital for farming/difficulty in getting credit	2nd Adaptive trials on paddy
3rd Difficulty in procuring quality seed, paddy	3rd Cropping pattern demonstration
4th Low yield, paddy	4th IPM, OFC
5th Pest & disease	5th Farmer training on irrigation water management
6th Difficulty in procuring fertilizer/agro-chemicals	6th IPM, paddy
7th No attractive farming technology for OFC	7th Paddy productivity increase Programme
<b>By FA/ADPA (1 ADPA)</b>	<b>By FA/ADPA (1 ADPA)</b>
1st Irrigation water shortage/water supply not on time	1st Adaptive trials on paddy
2nd Shortage of capital for farming/difficulty in getting credit	2nd IPM, paddy
3rd Lack of technical guidance/extension services, paddy	3rd Cropping pattern demonstration
4th Low/unstable prices of paddy	4th Seed production Programme, paddy
5th Wild animal, elephant	5th Farmer training on irrigation water management
	6th Paddy productivity increase Programme
	7th Study tour to advanced schemes
<b>BY AI (1 AI)</b>	<b>BY AI (1 AI)</b>
1st Shortage of capital for farming/difficulty in getting credit	1st Small scale demonstration plot, paddy
2nd Wild animal, elephant	2nd Small scale demonstration plot, OFC/vegetables
3rd Land Fragmentation	3rd Cropping pattern demonstration
4th Low/unstable prices of paddy	4th Seed production Programme, paddy
5th Difficulty in marketing, OFC	5th Seed production Programme, OFC
	6th Adaptive trials on paddy
	7th Adaptive trials on OFC/vegetables

<b>Constraints Reported by Participants 1/ By FO Representatives (13 farmers)</b>	<b>Needs for Support Programmes Reported by Participants 2/ By FO Representatives (13 farmers)</b>
1st Irrigation water shortage/water supply not on time	1st Adaptive trials on paddy
2nd Shortage of capital for farming/difficulty in getting credit	2nd Paddy productivity increase Programme
3rd Difficulty in procuring quality seed, paddy	3rd Small scale demonstration plot, paddy
4th Low yield, paddy	4th Adaptive trials on OFC/vegetables
5th No attractive farming technology for paddy	5th Farmer training on on-farm water management
6th Wild animal, elephant	6th IPM, paddy
7th High costs of farm inputs(fertilizer, agro-chemicals, seed)	7th Farmer training on irrigation water management
	7th Farmer training on farming practices, paddy
<b>By FA/ADPA (1 FA)</b>	<b>By FA/ADPA (1 FA)</b>
1st Irrigation water shortage/water supply not on time	1st Farmer training on irrigation water management
2nd Shortage of capital for farming/difficulty in getting credit	2nd Farmer training on on-farm water management
3rd Difficulty in procuring quality seed, paddy	3rd Small scale demonstration plot, paddy
4th Pest & disease	4th IPM, paddy
5th Wild animal, elephant	5th Cropping pattern demonstration
	6th Seed production Programme, paddy
	7th Cultivation loan, OFC
<b>BY AI &amp; ADA (1 AI &amp; 1 ADA)</b>	<b>BY AI &amp; ADA (1 AI &amp; 1 ADA)</b>
1st Irrigation water shortage/water supply not on time	1st Cropping pattern demonstration
2nd Shortage of capital for farming/difficulty in getting credit	2nd Small scale demonstration plot, paddy
2nd Poor soil fertility	2nd Farmer training on farming practices, paddy
4th Low yield, paddy	2nd Farmer training on marketing
4th Difficulty in procuring fertilizer/agro-chemicals	5th Farmer training on irrigation water management
6th No attractive farming technology for paddy	6th IPM, OFC
7th Wild animal, elephant	6th Mass guidance/campaign Programme(organisation)
	8th Seed production Programme, OFC

1/: Descending order of severity: 1st to 5th serious constraints reported by individual were scored by weighted method & rating was made based on total scores gained by each constraint

2/: 1st to 7th priority reported by individual were scored by weighted method & rating was made based on total scores gained by each support Programme

**Table R 2.1 Constraints for Irrigated Farming and Needs for Support Programmes Identified through Inquiry Surveys - 3/3**

**Scheme: Cascade VII (Kallanchiya, Attikulama, Palu-Mailawewa, Ihalagama, Tambarewewa & Ihalananneriya)**

Scheme: Gusside V (Kannimangal, Kunkumam, Yala-Kannimangal, Kunkumam, Kunkumam & Kannimangal)					
Irrigation Command Area (ha)	117	Target Annual Cropping Pattern		Paddy	119 %
No. of Paddy Land Owners (No.)	-			OFC	4 %
Current Cropping Intensity (%)	63	Current Paddy Yield (t/ha)	Maha:	3.2	Yala: 4.4
Target Cropping Intensity (%)	123	Target Paddy Yield (t/ha)	Maha:	5.0	Yala: 5.0
No. of FOs	5	No. of AIs Concerned	3	No. of FA/ADPAs Concerned	3

**Constraints Reported by Participants 1/  
By FO Representatives (23 farmers)**

- 1st Irrigation water shortage/water supply not on time
- 2nd Wild animal, elephant
- 3rd Shortage of capital for farming/difficulty in getting credit
- 4th Poor soil fertility
- 5th Low/unstable prices of paddy
- 6th Difficulty in procuring quality seed, paddy
- 7th Pest & disease

**By FA/ADPAs (3 FA/ADPAs)**

- 1st Irrigation water shortage/water supply not on time
- 2nd Shortage of capital for farming/difficulty in getting credit
- 3rd Difficulty in procuring quality seed, paddy
- 3rd High costs of farm inputs(fertilizer, agro-chemicals, seed)
- 5th Wild animal, elephant
- 6th Low yield, paddy
- 6th Weed problem
- 6th Poor soil fertility

**BY AIs (3 AIs)**

- 1st Irrigation water shortage/water supply not on time
- 2nd Low yield, paddy
- 3rd Shortage of capital for farming/difficulty in getting credit
- 4th Low yield, OFC
- 5th High costs of farm inputs(fertilizer, agro-chemicals, seed)
- 6th No attractive farming technology for paddy
- 7th Poor soil fertility

**Needs for Support Programmes Reported by Participants 2/  
By FO Representatives (23 farmers)**

- 1st Small scale demonstration plot, paddy
- 2nd Cropping pattern demonstration
- 3rd Farmer training on on-farm water management
- 4th Adaptive trials on paddy
- 5th Seed production Programme, paddy
- 6th Farmer training on farming practices, paddy
- 7th IPM, paddy
- 7th Farmer training on irrigation water management

**By FA/ADPAs (3 FA/ADPAs)**

- 1st IPM, paddy
- 2nd Adaptive trials on paddy
- 3rd Cropping pattern demonstration
- 4th Farmer training on farming practices, paddy
- 4th Seed production Programme, paddy
- 4th Adaptive trials on OFC/vegetables
- 7th Small scale demonstration plot, OFC/vegetables
- 7th Small scale demonstration plot, paddy

**BY AIs (3 AIs)**

- 1st Paddy productivity increase Programme
- 2nd IPM, paddy
- 3rd Farmer training on farming practices, paddy
- 4th Small scale demonstration plot, paddy
- 5th Seed production Programme, paddy
- 5th Farmer training on integrated farming system
- 7th Small scale demonstration plot, OFC/vegetables

1/: Descending order of severity: 1st to 5th serious constraints reported by individual were scored by weighted method & rating on total scores gained

2/: 1st to 7th priority reported by individual were scored by weighted method & rating was made based on total scores gained by each support Programme

**Table R 2.2 Institutional Constraints for Supporting Services**

<b>Agricultural Extension</b>
- Insufficient extension services for realization of potential of irrigated agriculture
- Weakly established co-ordination & collaboration among institutions
- Extension system within the capability of current manpower resources yet to be established
- Farmer participatory approaches yet to be established
- Insufficient deployment of extension staff
- FAs/ADPAs expected to take important roles in village extension have limited experiences and skills
- Supervision and guidance by provincial and district level senior staff limited
- Poor logistic support
- Poorly equipped or established training institutions
<b>Agricultural Research</b>
- Wide gaps between research and farm yields
- Lack of site specific technologies attractive to farmers
- Poor establishment of research-extension-farmers linkage
<b>Seed Production &amp; Supply</b>
- Insufficient supply of quality seed & planting materials
- Government & private seed supply capacity failing to meet demand
- Failure in timely distribution
- Poorly established provincial seed farm for production of quality fruit planting materials
<b>Agricultural Credit</b>
- Insufficient coverage of cultivation loans
- High transaction costs & cumbersome procedures
- Difficulties in meeting credit eligibility criteria set by banks
<b>Livestock Sub-sector</b>
- Poor extension activities/coverage in animal husbandry
- Poor logistic support
<b>Inland Fishery Sub-sector</b>
- Insufficient extension activities/coverage
- Inadequate technical skills of extension staff
- Poor logistic support
<b>Farmers/FOs Support Institutions &amp; Facilities</b>
- Poorly established or lack of facilities/equipment
- Inadequate technical skills of extension staff
- Poor logistic support
<b>Institutional Issues</b>
- Involvement of multitude of institutions in development
- Weakly established co-ordination & collaboration among institutions

**Table R 3.1 Formulation of Strengthening Plan for Agricultural Supporting Services under the Project - 1/5: Nachchaduwa Major Scheme**

<b>A. Results of PCM Workshop in Nachchaduwa Scheme (Agricultural Sector)</b>		<b>Potential Realization of Irrigated Agriculture 1/</b>	
<i>Problems Trees/Problems (AP)</i>	<i>Objective Trees/Status Envisaged (AO)</i>	<i>Productivity Increase</i>	<i>Target paddy yield: 5.0 t/ha from current 4.1 t/ha</i>
AP-1 Shortage of technical assistance/not receiving training	AO-1 Extension activities strengthened/practical training done	<i>Increase in Cropping Intensity</i>	<i>Target intensity of 200 % from current 160 %</i>
AP-2 Lack of funds/system & not applying adequate farm inputs	AO-2 Adequate farm inputs supplied & applied/used in fields	<i>Crop Diversification</i>	<i>Target cropping pattern: paddy 170 % OFC 30 %</i>
AP-3 Cultivating improper crops/less marketable crops	AO-3 Crop diversification/high value crops introduced	1/: Tentatively prepared based on agricultural development plan in Interim Report	
AP-4 Technical & extension skills of extension staffs limited	AO-4 Extension staffs with sufficient technical skills in fields		
AP-5 Farmers participation in planning limited	AO-5 Participatory approach taken in Programme planning		
AP-6 Cultivation not in time, shortage of equipment/machinery	AO-6 Cultivation in time/machinery etc. procured		
<b>Results of Inquiry Survey (Rating of Importance/Seriousness of Constraints &amp; Priority for Programme Needs)</b>		<b>Areas to Be Addressed &amp; Proposed Support Programmes</b>	
<i>Constraints (in order of importance)</i>	<i>Support Programme Needs (in order of priority)</i>	<i>Areas to Be Addressed</i>	<i>Proposed Support Programmes</i>
<b>B. Constraints &amp; Programme Needs Reported by FO Representatives</b>		- Agricultural Extension/Research	- <i>Field Programme</i> • Adaptive trials, paddy & OFC • Small & large-scale demonstration Programmes, paddy & OFC • Productivity increase Programme • Cropping pattern demonstration, IPM - <i>Farmer Training Programme</i> • Farmer training Programme (class) • Workshop/mass guidance & campaign • Study tour
BP-1 Irrigation water shortage/water supply not on time	BN-1 IPM, paddy	- Seed Production & Supply	- <i>Seed Production Programme</i> • Paddy seed production Programme • OFC seed production Programme
BP-2 Shortage of capital for farming/difficulty in getting credit	BN-2 Adaptive trials on paddy	- Agricultural Credit	- <i>Cultivation loan Programme under the revolving funds arrangement</i> - <i>Medium term credit Programme</i>
BP-3 Low yield, paddy	BN-3 Seed production Programme, paddy	- Institutional Strengthening	- <i>Logistic support strengthening prog.</i> - <i>Staff training Programme</i> - <i>Institutional strengthening Programme</i>
BP-4 Difficulty in procuring quality seed, paddy	BN-4 Small scale demonstration plot, paddy	- Strengthening of Farmer/FO Support Institution & Facilities	- <i>Establishment of "Farmer Center"</i> - <i>AS Center strengthening Programme</i> - <i>Staff training Programme</i>
BP-5 No attractive farming technology for paddy	BN-5 Farmer training on on-farm water management		
BP-6 Pest & disease	BN-6 Farmer training on farming practices, paddy		
BP-7 Weed Problem	BN-7 Farmer training on marketing		
<b>C. Constraints &amp; Programme Needs Reported by FAs/ADPAs</b>		<b>Approaches to Be Taken</b>	
CP-1 Irrigation water shortage/water supply not on time	CN-1 Farmer training on irrigation water management	- Strengthening support services & introduction of package/integrated Programmes	
CP-2 High costs of farm inputs(fertilizer, agro-chemicals, seed)	CN-2 Adaptive trials on paddy	- Participatory planning/implementation & establishment of management system for project support Programmes	
CP-3 Low yield, paddy	CN-3 Seed production Programme, paddy	- Strengthening of research-extension-farmer linkage	
CP-4 Difficulty in procuring quality seed, paddy	CN-4 Farmer training on on-farm water management	- Establishment of PMU	
CP-5 No attractive farming technology for paddy	CN-5 IPM, paddy	- Strengthening of staff training accommodated in project support Programmes	
CP-6 Shortage of capital for farming/difficulty in getting credit	CN-6 IPM, OFC	- Logistic support strengthening & strengthening of guidance/supervision	
CP-7 Weed Problem	CN-7 Paddy productivity increase Programme	- Enhance seed production in the scheme area	
<b>D. Constraints &amp; Programme Needs Reported by AIs</b>		- Agricultural credit Programmes/cultivation loans	
DP-1 Shortage of capital for farming/difficulty in getting credit	DN-1 Farmer training on on-farm water management	- Strengthening of AS Center	
DP-2 Irrigation water shortage/water supply not on time	DN-2 IPM, paddy	- Establishment of multipurpose center as a farmer/FO support facility	
DP-3 Difficulty in marketing of products	DN-3 Large scale demonstration plot, paddy		
DP-4 High costs of farm inputs(fertilizer, agro-chemicals, seed)	DN-4 Cropping pattern demonstration		
DP-5 No attractive farming technology for paddy	DN-5 Farmer training on farming practices, OFC/vegetables		
DP-6 Difficulty in procuring fertilizer/agro-chemicals	DN-6 Paddy productivity increase Programme		
DP-7 Difficulty in procuring quality seed, paddy	DN-7 Small scale demonstration plot, paddy		
<b>E. Constraints Identified by Study Team &amp; Extension Agencies</b>			
<i>Common Technical Constraints (ET)</i>	<i>Common Institutional Constraints (EI)</i>		
ET-1 Stagnant productivity of paddy (paddy yield level still substantially lower than extension target; wide gaps between research & farm yields)	EI-1 Insufficient extension services to realize of Project target		
ET-2 Low cropping intensity	EI-2 Weak co-ordination & collaboration among institutions		
ET-3 Crop losses caused by pests, diseases, weed & elephant	EI-3 Farmer participatory approaches to be established		
ET-4 Unstable OFC production/limitation in crop diversification	EI-4 Insufficient deployment of AIs and extension & technical skills of FAs/ADPAS limited		
ET-5 Tiny parceled paddy field	EI-5 Weak research-extension-farmer linkage, supervision & guidance by senior staff & logistic support limited		
ET-6 Increased production costs	EI-6 Insufficient supply of quality seed		
ET-7 Marketing problems of OFC	EI-7 Limited coverage of cultivation loans		
	EI-8 Poorly established or lack of farmer/FO support facilities		

**Table R 3.1 Formulation of Strengthening Plan for Agricultural Supporting Services under the Project - 2/5: Palukadawela Major Scheme**

A. Results of PCM Workshop in Palukadawela Scheme (Agricultural Sector)	
Problems Trees/Problems (AP)	Objective Trees/Status Envisaged (AO)
AP-1 Collapse of agricultural extension services	AS-1 Activated & practical agricultural extension services
AP-2 Lack of funds/system & not applying adequate farm inputs	AS-2 Adequate farm inputs supplied & applied/used in fields
AP-3 Cultivation not in time	AS-3 Cultivation practiced as scheduled
AP-4 Difficulty in marketing	AS-4 Marketing conditions improved with established facility
AP-5 Increase of production costs	AS-5 Inputs use economized through IPM/appropriate practices
AP-6 Shortage of capital for procuring machinery	AS-6 Machinery procured through group loan facilities
Results of Inquiry Survey (Rating of Importance/Seriousness of Constraints & Priority for Programme Needs)	
Constraints (in order of importance)	Support Programme Needs (in order of priority)
B. Constraints & Programme Needs Reported by FO Representatives	
BP-1 Irrigation water shortage/water supply not on time	BN-1 Adaptive trials on paddy
BP-2 Shortage of capital for farming/difficulty in getting credit	BN-2 Farmer training on on-farm water management
BP-3 Low yield, paddy	BN-3 Adaptive trials on paddy
BP-4 Difficulty in procuring quality seed, paddy	BN-4 Cropping pattern demonstration
BP-5 Wild animal, elephant	BN-5 Paddy productivity increase Programme
BP-6 Difficulty in procuring fertilizer/agro-chemicals	BN-6 Small scale demonstration plot, paddy
BP-7 High costs of farm inputs(fertilizer, agro-chemicals, seed)	BN-7 Farmer training on marketing
C. Constraints & Programme Needs Reported by FAs/ADPAs	
CP-1 Irrigation water shortage/water supply not on time	CN-1 Small scale demonstration plot, paddy
CP-2 Wild animal, elephant	CN-2 Paddy productivity increase Programme
CP-3 Shortage of capital for farming/difficulty in getting credit	CN-3 IPM, paddy
CP-4 Difficulty in procuring quality seed, paddy	CN-4 Cropping pattern demonstration
CP-5 Low yield, paddy	CN-5 Farmer training on on-farm water management
CP-6 High costs of farm inputs(fertilizer, agro-chemicals, seed)	CN-6 Adaptive trials on paddy
CP-7 Difficulty in procuring quality seed, OFC	CN-7 Seed production Programme, paddy
D. Constraints & Programme Needs Reported by AIs	
DP-1 Irrigation water shortage/water supply not on time	DN-1 Paddy productivity increase Programme
DP-2 Low yield, paddy	DN-2 Small scale demonstration plot, paddy
DP-3 Shortage of capital for farming/difficulty in getting credit	DN-3 Seed production Programme, paddy
DP-4 Poor soil fertility	DN-4 Farmer training on farming practices, paddy
	DN-5 Large scale demonstration plot, paddy
	DN-6 IPM, paddy
	DN-7 Farmer training on on-farm water management
E. Constraints Identified by Study Team & Extension Agencies	
Common Technical Constraints (ET)	Common Institutional Constraints (EI)
ET-1 Stagnant productivity of paddy (paddy yield level still substantially lower than extension target; wide gaps between research & farm yields)	EI-1 Insufficient extension services to realize of Project target
ET-2 Low cropping intensity	EI-2 Weak co-ordination & collaboration among institutions
ET-3 Crop losses caused by pests, diseases, weed & elephant	EI-3 Farmer participatory approaches to be established
ET-4 Unstable OFC production/limitation in crop diversification	EI-4 Insufficient deployment of AIs and extension & technical skills of FAs/ADPAS limited
ET-5 Tiny parceled paddy field	EI-5 Weak research-extension-farmer linkage, supervision & guidance by senior staff & logistic support limited
ET-6 Increased production costs	EI-6 Insufficient supply of quality seed
ET-7 Marketing problems of OFC	EI-7 Limited coverage of cultivation loans
	EI-8 Poorly established or lack of farmer/FO support facilities

Potential Realization of Irrigated Agriculture 1/

Productivity IncreaseTarget paddy yield: 5.0 t/ha from 3.6 t/ha(maha)

Increase in Cropping IntensityTarget intensity of 148 % from current 145 %

Crop DiversificationTarget cropping pattern: paddy 128 % OFC 20 %

1/: Tentatively prepared based on agricultural development plan in Interim Report

Areas to Be Addressed & Proposed Support Programmes

Areas to Be Addressed	Proposed Support Programmes
- Agricultural Extension/Research	- Field Programmes <ul style="list-style-type: none"><li>• Adaptive trials, paddy &amp; OFC</li><li>• Small &amp; large-scale demonstration Programmes, paddy &amp; OFC</li><li>• Productivity increase Programme</li><li>• Cropping pattern demonstration, IPM</li></ul> - Farmer training Programme <ul style="list-style-type: none"><li>• Farmer training Programme (class)</li><li>• Workshop/mass guidance &amp; campaign</li><li>• Study tour</li></ul>
- Seed Production & Supply	- Seed production Programme <ul style="list-style-type: none"><li>• Paddy seed production Programme</li><li>• OFC seed production Programme</li></ul>
- Agricultural Credit	- Cultivation loan Programme under the revolving funds arrangement
	- Medium term credit Programme
- Institutional Strengthening	- Logistic support strengthening prog.
	- Staff training Programme
	- Institutional strengthening Programme
- Strengthening of Farmer/FO Support Institution & Facilities	- Establishment of "Farmer Center)
	- AS Center strengthening Programme
	- Staff training Programme

Approaches to Be Taken

- Strengthening support services & introduction of package/integrated Programmes

- Participatory planning/implementation & establishment of management system for project support Programmes

- Strengthening of research-extension-farmer linkage

- Establishment of PMU

- Strengthening of staff training accommodated in project support Programmes

- Logistic support strengthening & strengthening of guidance/supervision

- Enhance seed production in the scheme area

- Agricultural credit Programmes/cultivation loans

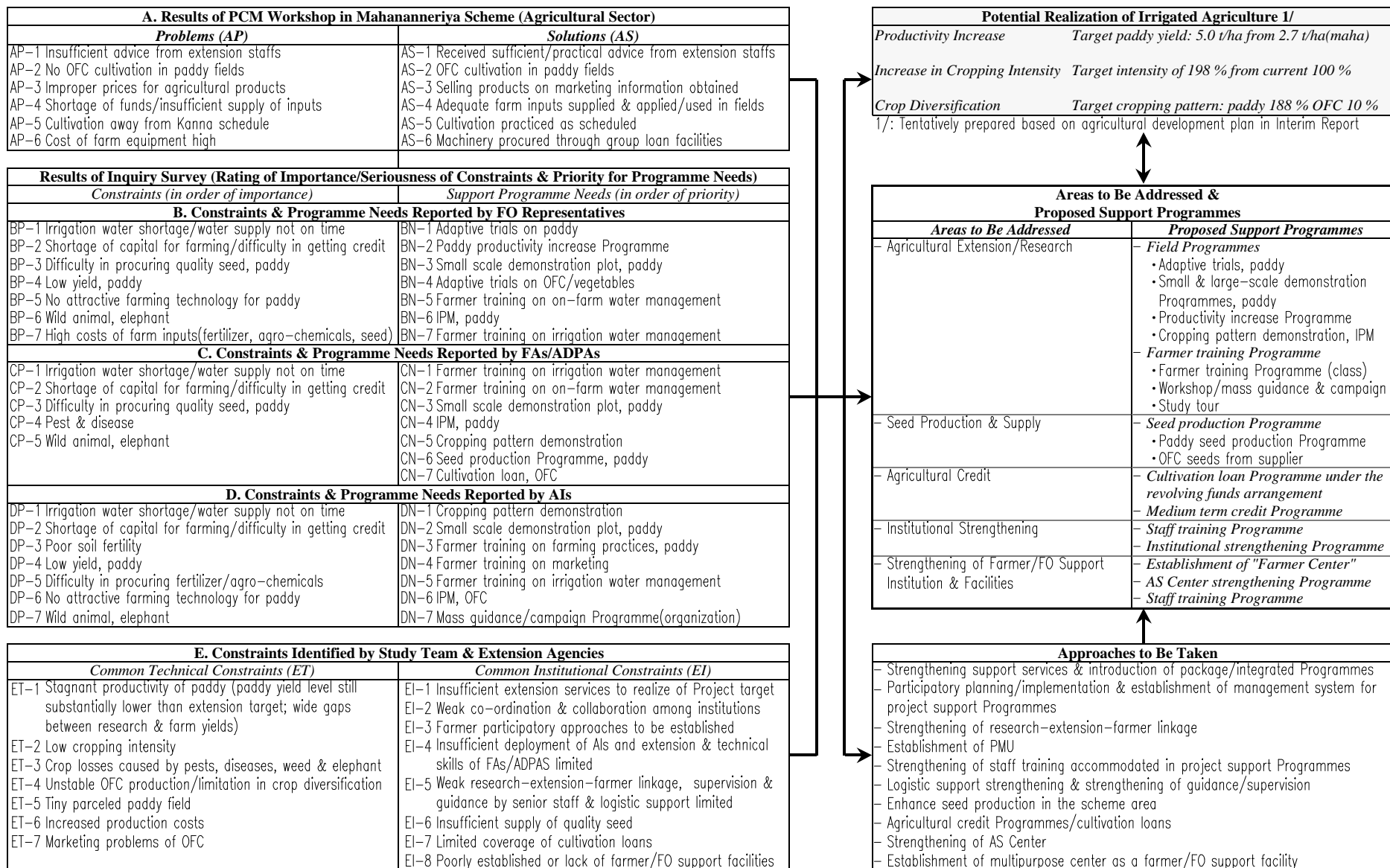
- Strengthening of AS Center

- Establishment of multipurpose center as a farmer/FO support facility

**Table R 3.1 Formulation of Strengthening Plan for Agricultural Supporting Services under the Project - 3/5: Periyakulama Medium Scheme**

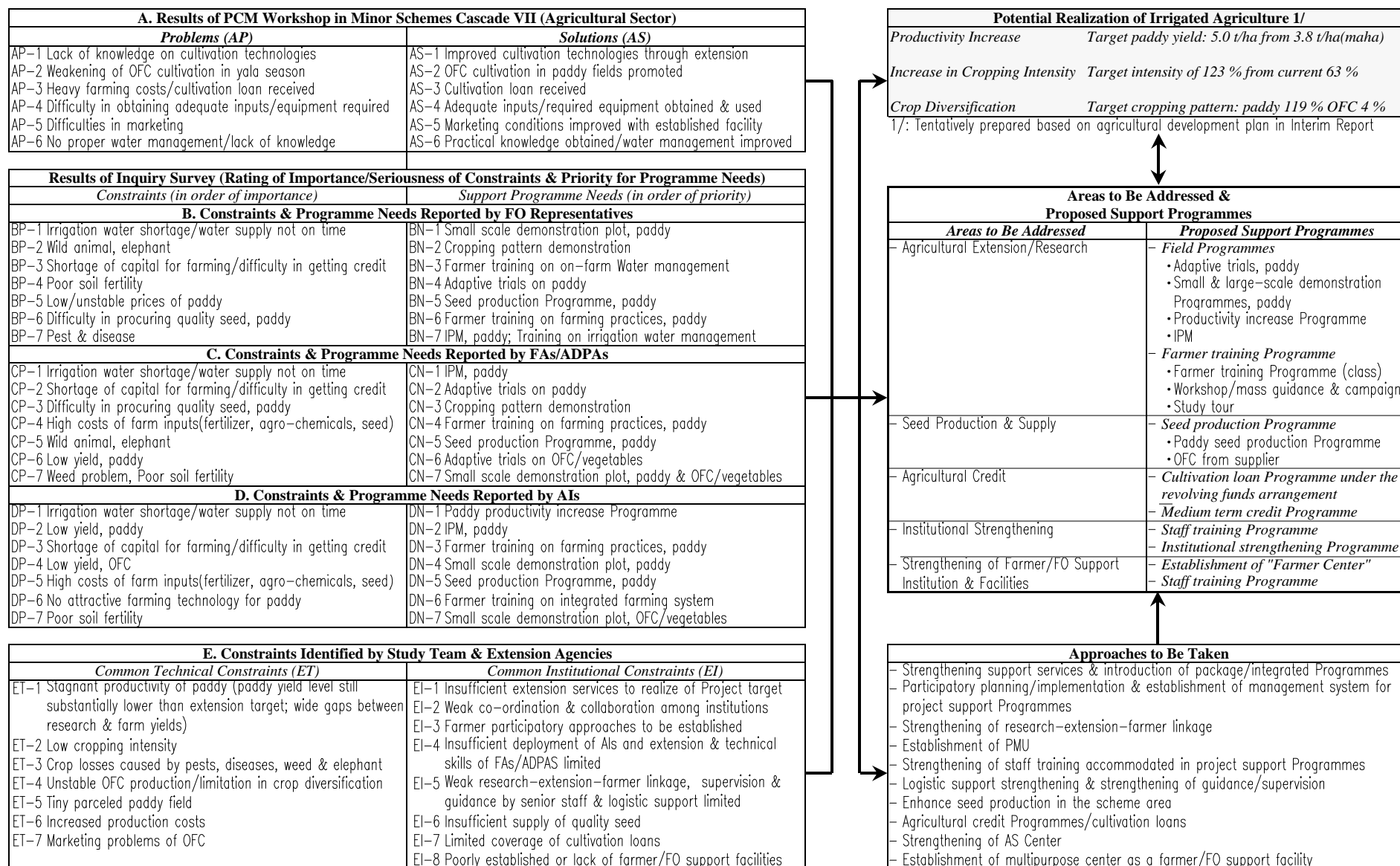
<b>A. Results of PCM Workshop in Periyakulama Scheme (Agricultural Sector)</b>		<b>Potential Realization of Irrigated Agriculture 1/</b>	
<i>Problems Trees/Problems (AP)</i>	<i>Objective Trees/Status Envisaged (AO)</i>	<i>Productivity Increase</i>	<i>Target paddy yield: 5.0 t/ha from 4.2 t/ha(maha)</i>
AP-1 Weak extension services & lack of practical knowledge	AS-1 Strengthened practical extension services provided	<i>Increase in Cropping Intensity</i>	<i>Target intensity of 157 % from current 121 %</i>
AP-2 Unorganized cultivation	AS-2 Cultivation practiced as scheduled	<i>Crop Diversification</i>	<i>Target cropping pattern: paddy 135 % OFC 11 %</i>
AP-3 Wastage of irrigation water	AS-3 Efficient on-farm water management practiced	1/: Tentatively prepared based on agricultural development plan in Interim Report	
AP-4 Large capital for farming/purchase & supply not in time	AS-4 Adequate farm inputs supplied & applied/used in fields		
AP-5 Lack of capital/shortage of farm implements/machinery	AS-5 Machinery etc. procured through group loan facilities		
AP-6 Difficulty to sell products to market	AS-6 Marketing conditions improved with established facility		
<b>Results of Inquiry Survey (Rating of Importance/Seriousness of Constraints &amp; Priority for Programme Needs)</b>		<b>Areas to Be Addressed &amp; Proposed Support Programmes</b>	
<i>Constraints (in order of importance)</i>	<i>Support Programme Needs (in order of priority)</i>	<i>Areas to Be Addressed</i>	<i>Proposed Support Programmes</i>
<b>B. Constraints &amp; Programme Needs Reported by FO Representatives</b>		- Agricultural Extension/Research	- <i>Field Programmes</i> • Adaptive trials, paddy • Small & large-scale demonstration Programmes, paddy • Productivity increase Programme • Cropping pattern demonstration, IPM - <i>Farmer training Programme</i> • Farmer training Programme (class) • Workshop/mass guidance & campaign • Study tour
BP-1 Irrigation water shortage/water supply not on time	BN-1 Farmer training on on-farm water management	- Seed Production & Supply	- <i>To be procured from other schemes or supplier</i>
BP-2 Shortage of capital for farming/difficulty in getting credit	BN-2 Adaptive trials on paddy	- Agricultural Credit	- <i>Cultivation loan Programme under the revolving funds arrangement</i> - <i>Medium term credit Programme</i>
BP-3 Difficulty in procuring quality seed, paddy	BN-3 Cropping pattern demonstration	- Institutional Strengthening	- <i>Logistic support strengthening prog.</i> - <i>Staff training Programme</i> - <i>Institutional strengthening Programme</i>
BP-4 Low yield, paddy	BN-4 IPM, OFC	- Strengthening of Farmer/FO Support Institution & Facilities	- <i>Establishment of "Farmer Center"</i> - <i>AS Center strengthening Programme</i> - <i>Staff training Programme</i>
BP-5 Pest & disease	BN-5 Farmer training on irrigation water management		
BP-6 Difficulty in procuring fertilizer/agro-chemicals	BN-6 IPM, paddy		
BP-7 No attractive farming technology for OFC	BN-7 Paddy productivity increase Programme		
<b>C. Constraints &amp; Programme Needs Reported by FAs/ADPAs</b>		<b>Approaches to Be Taken</b>	
CP-1 Shortage of capital for farming/difficulty in getting credit	CN-1 Adaptive trials on paddy	- Strengthening support services & introduction of package/integrated Programmes	
CP-2 Shortage of capital for farming/difficulty in getting credit	CN-2 IPM, paddy	- Participatory planning/implementation & establishment of management system for project support Programmes	
CP-3 Lack of technical guidance/extension services, paddy	CN-3 Cropping pattern demonstration	- Strengthening of research-extension-farmer linkage	
CP-4 Low/unstable prices of paddy	CN-4 Seed production Programme, paddy	- Establishment of PMU	
CP-5 Wild animal, elephant	CN-5 Farmer training on irrigation water management	- Strengthening of staff training accommodated in project support Programmes	
	CN-6 Paddy productivity increase Programme	- Logistic support strengthening & strengthening of guidance/supervision	
	CN-7 Study tour to advanced schemes	- Enhance seed production in the scheme area	
<b>D. Constraints &amp; Programme Needs Reported by AIs</b>		- Agricultural credit Programmes/cultivation loans	
DP-1 Shortage of capital for farming/difficulty in getting credit	DN-1 Small scale demonstration plot, paddy	- Strengthening of AS Center	
DP-2 Wild animal, elephant	DN-2 Small scale demonstration plot, OFC/vegetables	- Establishment of multipurpose center as a farmer/FO support facility	
DP-3 Land Fragmentation	DN-3 Cropping pattern demonstration		
DP-4 Low/unstable prices of paddy	DN-4 Seed production Programme, paddy		
DP-5 Difficulty in marketing, OFC	DN-5 Seed production Programme, OFC		
	DN-6 Adaptive trials on paddy		
	DN-7 Adaptive trials on OFC/vegetables		
<b>E. Constraints Identified by Study Team &amp; Extension Agencies</b>			
<i>Common Technical Constraints (ET)</i>	<i>Common Institutional Constraints (EI)</i>		
ET-1 Stagnant productivity of paddy (paddy yield level still substantially lower than extension target; wide gaps between research & farm yields)	EI-1 Insufficient extension services to realize of Project target		
ET-2 Low cropping intensity	EI-2 Weak co-ordination & collaboration among institutions		
ET-3 Crop losses caused by pests, diseases, weed & elephant	EI-3 Farmer participatory approaches to be established		
ET-4 Unstable OFC production/limitation in crop diversification	EI-4 Insufficient deployment of AIs and extension & technical skills of FAs/ADPAS limited		
ET-5 Tiny parceled paddy field	EI-5 Weak research-extension-farmer linkage, supervision & guidance by senior staff & logistic support limited		
ET-6 Increased production costs	EI-6 Insufficient supply of quality seed		
ET-7 Marketing problems of OFC	EI-7 Limited coverage of cultivation loans		
	EI-8 Poorly established or lack of farmer/FO support facilities		

**Table R 3.1 Formulation of Strengthening Plan for Agricultural Supporting Services under the Project - 4/5: Mahananneriya Medium Scheme**



Tab R 3.1-4

**Table R 3.1 Formulation of Strengthening Plan for Agricultural Supporting Services under the Project - 5/5: Minor Schemes Cascade VII**



Tab R 3.1-5



**Table R 3.2 Description of Support Programme: - 1/12 Field Programme**

Programme: Adaptive Trials		
Scope of Programme	Adaptive trials of site specific package or element technologies on paddy, OFC & vegetables	
Objectives	To Develop site specific technologies attractive to farmer	
Programme Components	On-farm trials on recommended technologies Preliminary guidance to members of the FO or farmer group Training/guidance to farmers through farmer field days	
Target Groups/Areas	Selected target schemes on need basis	
Beneficiaries Contribution	Trials at farmers field Joint assessment of results of trials at field days	
Executing Agencies	PDOA or IPEU/DOA	
Implementation by	Research agencies, PDOA or IPEU, Als	
Guidance & Supervision by	Research agencies, PDOA or IPEU, Als	
Monitoring by	Research agencies & Als	
Estimated Standard Programme Costs per Unit (To be borne by the Project)		
Programme costs per trial	Net trial cost 1/ Supervision & guidance cost	Rs. 10,000.- Rs. 20,000.- ----- Rs. 30,000.-
	1/: Based on net trial cost of RRDI in 1999	

Programme: Small-scale Demonstration/Demonstration Plot (Paddy & OFC)				
Description of Programme	Operation of demonstration plot of paddy/OFC/vegetables Cultivation in farmers field (paddy 1.0 ha; OFC 0.1 & 1ha; vegetables 0.1 ha)			
Objectives	Demonstration of paddy/OFC/vegetable farming practices			
Programme Components	Demonstration of recommended farming practices & on-farm water management Training/guidance to farmers through farmer field days			
Target Groups/Areas	Schemes with considerably low paddy yield Irrigation schemes with proposed cropping pattern including OFC & vegetables Selected individual farmer or farmers of a FO or a farmer group			
Beneficiaries Contribution	Guidance to members of the FO or farmer group Costs other than Programme costs to be born by a beneficiary or beneficiaries			
Executing Agencies	PDOA or IPEU/DOA in cooperation with DAS			
Implementation by	Selected individual farmer or farmers of a FO or a farmer group under guidance & supervision of AI			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Unit (Rs. 000; To be borne by the Project)				
Cost Items	Paddy (1ha)	OFC (1ha)	OFC/Veget.(0.1ha)	
1. Farm Inputs	packet	9,000	5,000	1,000
2. Guidance Materials	packet	500	500	500
3. Farmer Field Days	times	3,600	3,600	3,600
4. Guidance/Supervision Costs				
- AI	staffday	1,000	1,000	1,000
- PDOA or IPEU Staff	staffday	1,000	1,000	1,000
5. Miscellaneous		900	900	900
Programme Costs(Rs.000)		16,000	12,000	8,000

1/: Based on net trial cost of RRDI in 1999

**Table R 3.2 Description of Support Programme: - 2/12 Field Programme**

Programme: Cropping Pattern Demonstration				
Scope of Programme	Operation of demonstration of cropping pattern of paddy – OFC in farmers field (5 ha)			
Objectives	Demonstration of proposed cropping pattern & to promote crop diversification (paddy – OFC)			
Programme Components	Demonstration of paddy in Maha & OFC in Yala season Training/guidance to farmers through farmer field days Guidance to non-participating farmers through field days Provision of 50% of farm inputs costs			
Target Groups/Areas	Selected target schemes on need basis Selected individual farmer or farmers of a FO or a farmer group in irrigated area			
Beneficiaries Contribution	Costs other than Programme costs to be born by a beneficiary or beneficiaries Guidance to members of the FO or farmer group			
Executing Agencies	PDOA or IPEU/DOA in cooperation with DAS			
Implementation by	Selected individual farmer or farmers of a FO or a farmer group under guidance & supervision of AI			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Unit (Rs. 000; To be borne by the Project)				
Cost Items	Qty		Unit Rate(Rs.)	Amount (Rs.)
1. Farm Inputs	packet	1	35,000	35,000
2. Guidance Materials	packet	1	1,000	1,000
3. Farmer Field Days	times	10	1,200	12,000
4. Transportation	packet	4	1,500	6,000
Field Days(non-participants)				
5. Guidance/Supervision Costs				
– AI	staffday	10	200	2,000
– PDOA or IPEU Staff	staffday	6	500	3,000
6. Miscellaneous				5000
Programme Costs(Rs.000)				64,000

Programme: Large-scale Demonstration Programme/Demonstration Block & Farm				
Scope of Programme	Operation of demonstration block of irrigated paddy or OFC cultivation in farmers field Block: paddy 25 ha; Farm: paddy & OFC 5 ha			
Objectives	Demonstration of irrigated paddy or OFC farming practices			
Programme Components	Demonstration of recommended farming practices & on-farm/field canal level water management Training/guidance to farmers through farmer field days Guidance to non-participating farmers through field days Provision of 50% of farm inputs costs			
Target Groups/Areas	Irrigation schemes with substantial potential for increase in paddy productivity Irrigation schemes with proposed cropping pattern with OFC Selected FO or a farmer group/groups			
Beneficiaries Contribution	Costs other than Programme costs to be born by beneficiaries Farm inputs supply under revolving arrangement Guidance to non-participating members of FO or group			
Executing Agencies	PDOA or IPEU/DOA in cooperation with DAS			
Implementation by	Members of FO or a farmer group/groups			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Unit (Rs. 000; To be borne by the Project)				
Cost Items		Paddy: Block	Paddy: Farm	OFC: Farm
1. Farm Inputs	packet	112,500	22,500	12,500
2. Guidance Materials	packet	2,000	2,000	2,000
3. Farmer Field Days	times	6,000	6,000	6,000
4. Transportation	packet	3,000	3,000	3,000
Field Days(non-participants)				
5. Guidance/Supervision Costs				
– AI	staffday	1,400	1,400	1,400
– PDOA or IPEU Staff	staffday	1,500	1,500	1,500
6. Miscellaneous		3,600	3,600	3,600
Programme Costs(Rs.000)		130,000	40,000	30,000

**Table R 3.2 Description of Support Programme: - 3/12 Field Programme**

Programme: Paddy Productivity Increase Programme				
Scope of Programme	Large scale field Programme aiming at productivity increase of paddy under integrated support services (25 ha or 1 minor scheme)			
Objectives	Productivity increase of paddy			
Programme Components	Intensive guidance on recommended farming practices & on-farm/field canal level water management Arrangement of cultivation loan to participants Training/guidance to farmers through farmer field days Guidance to non-participating farmers through field days			
Target Groups/Areas	Irrigation schemes with substantial potential for increase in paddy productivity Selected FO or a farmer group/groups who have intention to adopt recommended practices			
Beneficiaries Contribution	Costs other than Programme costs to be born by beneficiaries Guidance to non-participating members of the FO or farmer groups			
Executing Agencies	PDOA or IPEU/DOA in cooperation with DAS			
Implementation by	Members of FO or a farmer group/groups			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Unit (Rs.000; To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.)	
1. Guidance Materials	packet	1	4,000	4,000
2. Farmer Field Days	times	5	1,200	6,000
3. Transportation	packet	2	1,500	3,000
Field Days(non-participants)				
4. Guidance/Supervision Costs				
- AI	staffday	10	200	2,000
- PDOA or IPEU Staff	staffday	4	500	2,000
5. Miscellaneous				3,000
Programme Costs(Rs.000)			20,000	

Programme: Integrated Pest Management (IPM)				
Scope of Programme	Introduction of integrated pest management technology for paddy or OFC in large scale (25 ha)			
Objectives	Demonstration of irrigated paddy or OFC farming practices			
Programme Components	Intensive guidance on IMP through "field schools" Implementation of IPM in target fields Training/guidance to non-participating farmers through farmer field days Guidance to non-participating farmers through field days			
Target Groups/Areas	Irrigation schemes suffering form substantial crop losses form pests & diseases Selected FO or a farmer group/groups			
Beneficiaries Contribution	Costs other than Programme costs to be born by a beneficiary or beneficiaries Guidance to members of non-participating members of FO or farmer groups through farmer field days			
Executing Agencies	PDOA or IPEU/DOA in cooperation with DAS			
Implementation by	PDOA or IPEU in collaboration with participants			
Guidance & Supervision by	PDOA or IPEU			
Monitoring by	PDOA or IPEU, AI & ADPA			
Estimated Standard Programme Costs per Unit (Rs.000; To be borne by the Project)				
Cost Items	Qty		Unit Rate (Rs.)	Amount (Rs.)
1. Chemicals	packet	1	60,000	60,000
2. Guidance Materials	packet	1	4,000	4,000
3. Farmer Field Days	times	2	1,200	2,400
4. "Field School"	times	15	1,200	18,000
5. Transportation	packet	2	1,500	3,000
Field Days(non-participants)				
6. Guidance/Supervision Costs				
- AI	staffday	15	200	3,000
- PDOA or IPEU Staff	staffday	10	500	5,000
7. Miscellaneous				4600
Programme Costs(Rs.000)				100,000

Tab R 3.2-3

**Table R 3.2 Description of Support Programme: - 4/12 Farmer Training Programme**

Programme: Induction Farmer Training				
Scope of Programme	Induction guidance to beneficiaries on the approaches for supporting services introduced under the Project			
Objectives	Dissemination of approaches taken under the Project, including envisaged participatory approaches & expected beneficiaries contribution in the supporting Programmes			
Training Subjects	General guidance on supporting services introduced under the Project			
Target Groups/Participants	Representatives of FOs or farmers groups of all target schemes under the Project Participants: 25 farmers			
Duration & Training Method	3 days (24 hours) in class			
Places of Training	In-service Training Institute or else			
Beneficiaries Contribution	Providing induction farmer guidance to members of FO or farmers group in cooperation with AI			
Executing Agencies	PDOA or IPEU/DOA in collaboration with DAS			
Supporting Institutions	PDAPH, NAQDA, IMD, DOI			
Monitoring by	PDOA or Inter-provincial Extension Unit/DOA			
Estimated Standard Programme Costs per Course (To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)	
1. Training Materials	packet	1	4,000	4,000
2. Training Allowances				
– Travelling	trip	25	100	2,500
– Per Diem	manday	75	150	11,250
– Accommodation	manday	50	100	5,000
3. Trainers Costs				
– PDOA/IPEU/DAS Staff	staffday	4	500	2,000
– Other Lecturers	staffday	2	1,000	2,000
4. Miscellaneous				1,250
Programme Costs(Rs.000)				28,000

Programme: Induction Farmer Guidance				
Scope of Programme	Induction guidance to all the beneficiaries on approaches for supporting services introduced under the Project			
Objectives	Dissemination of approaches taken under the Project, including envisaged participatory approaches & expected beneficiaries contribution in the supporting Programmes			
Training Subjects	General guidance on supporting services introduced under the Project			
Target Groups/Participants	All beneficiaries of target schemes under the Project Participants: 2 to 3 farmer groups per guidance			
Duration & Training Method	1 day (8 hours) in class			
Places of Guidance	ASC or else in a village			
Beneficiaries Contribution	Not expected			
Executing Agencies	PDOA or IPEU/DOA in collaboration with DAS			
Implementation by	Participants of Induction Farmer Training with AI, DO & ADPA			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Unit(Rs.000; To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)	
1. Training Materials	packet	1	1,000	1,000
2. Training Allowances				
– Travelling	trip			
– Per Diem	manday	50	100	5,000
– Accommodation	manday			
3. Trainers Costs				
– AI, DO, ADDA	staffday	5	200	1,000
4. Miscellaneous				1,000
Programme Costs(Rs.000)				8,000

Tab R 3.2-4

**Table R 3.2 Description of Support Programme: - 5/12 Farmer Training Programme**

Programme: Farmer Training				
Scope of Programme	farmer training on specific subjects on need basis; subjects will cover technology, Programme evaluation & etc.			
Objectives	Dissemination of technology; discussion on Programme impacts & problems, need assessment			
Training Subjects	On need basis; IPM, on-farm water management, OFC, marketing, Programme evaluation etc.			
Target Groups/Participants	Representatives of FOs or farmers groups of all target schemes under the Project Participants: 25 farmers			
Duration & Training Method	3 days (24 hours) in class			
Places of Training	In-service Training Institute or else			
Beneficiaries Contribution	Providing guidance to members of FO or farmer groups in cooperation with AI			
Executing Agency	PDOA or IPEU/DOA in collaboration with DAS			
Implementation by	ADA, AI, PDOA, IPEU(dependng on subjects)			
Monitoring by	PDOA or IPEU/DOA			
Estimated Standard Programme Costs per Course (to be borne by the Project)				
Cost Items	Q'ty		Unit Rate (Rs.)	Amount (Rs.000)
1. Training Materials	packet	1	4,000	4,000
2. Training Allowances				
– Travelling	trip	25	100	2,500
– Per Diem	manday	75	150	11,250
– Accommodation	manday	50	100	5,000
3. Transportation(Field Visit)	packet	1	2,000	2,000
4. Trainers Costs				
– PDOA/IPEU/DAS Staff	staffday	4	500	2,000
– Other Lecturers	staffday	2	1,000	2,000
5. Miscellaneous				1250
Programme Costs(Rs.000)				30,000

Programme: Workshop/Mass Guidance				
Scope of Programme	Workshop on planning of support Programmes Mass guidance/campaign on specific subjects on need basis Subjects will cover farming technology, O&M etc.			
Objectives	Mass guidance/campaign on specific subjects on need basis for dissemination of technology or to promote collective actions			
Workshop/Guidance Subjects	Workshop: support Programme planning & evaluation Guidance: on need basis; O&M , OFC etc.			
Target Groups/Participants	All beneficiaries of target schemes under the Project Participants: 50 farmers per guidance			
Duration & Training Method	1 day (8 hours) in class or field			
Places of Guidance	ASC or else in a village or field guidance			
Beneficiaries Contribution	Not expected			
Executing Agency	PDOA or IPEU/DOA in collaboration with DAS (IMD/DOI depending on subjects)			
Implementation by	ADA, AI, PDOA, IPEU(depending on subjects)			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Campaign (to be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)		Amount (Rs.000)
1. Training Materials	packet	1	1,000	1,000
2. Per Diem Allowances				
– Per Diem	manday	50	50	2,500
3. Trainers Costs				
– AI, DO, ADA	staffday	5	200	1,000
4. Miscellaneous				500
Programme Costs(Rs.000)				5,000

**Table R 3.2 Description of Support Programme: - 6/12 Farmer Training Programme**

Programme: Seed Campaign				
Scope of Programme	Village level campaign for adoption of quality seed			
Objectives	Dissemination of benefit of adoption of quality seed or guidance on integrated rat control & cooperative implementation of rat/wild pig control			
Programme Components	(Seed Campaign) Guidance on benefit of adoption of quality seed Visits to demonstration Programme/seed production fields			
Target Groups/Areas	Irrigation schemes where adoption rate of quality seed is still low or Irri. schemes suffering heavily from rat/wild pig attacks			
Beneficiaries Contribution	Participating in campaign(seed campaign) Participating in campaign & cooperative control operation (Rat/Wild Pig Control Campaign)			
Executing Agencies	PDOA or IPEU/DOA in collaboration with DAS			
Implementation by	AI/ADPA in cooperation with all farmers in a target area			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Cost per Campaign (To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)	
1. Guidance Materials	packet	1	3,000	3,000
2. Campaign Costs/perdiem (100 participants)	manday	100	50	5,000
3. Guidance/Supervision Costs – AI & others	staffday	5	200	1,000
4. Miscellaneous				1,000
Programme Costs(Rs.000)				10,000

Programme: Other Campaign				
Scope of Programme	Village level campaign for rat/wild pig control & other subjects/issues			
Objectives	Dissemination of benefit of adoption of quality seed or guidance on integrated rat control & cooperative implementation of rat/wild pig control			
Programme Components	(Rat/Wild Pig Control Campaign) Guidance on integrated rat control Cooperative implementation of control in a village			
Target Groups/Areas	Irrigation schemes where adoption rate of quality seed is still low or Irri. schemes suffering heavily from rat/wild pig attacks			
Beneficiaries Contribution	Participating in campaign(seed campaign) Participating in campaign & cooperative control operation (Rat/Wild Pig Control Campaign)			
Executing Agencies	PDOA or IPEU/DOA in collaboration with DAS			
Implementation by	AI/ADPA in cooperation with all farmers in a target area			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Cost per Campaign (To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)	
1. Guidance Materials	packet	1	3,000	3,000
2. Campaign Costs/perdiem (100 participants)	manday	100	50	5,000
3. Guidance/Supervision Costs – AI & others	staffday	5	200	1,000
4. Miscellaneous				1,000
Programme Costs(Rs.000)				10,000

**Table R 3.2 Description of Support Programme: - 7/12 Farmer Training Programme & Seed Production Programme**

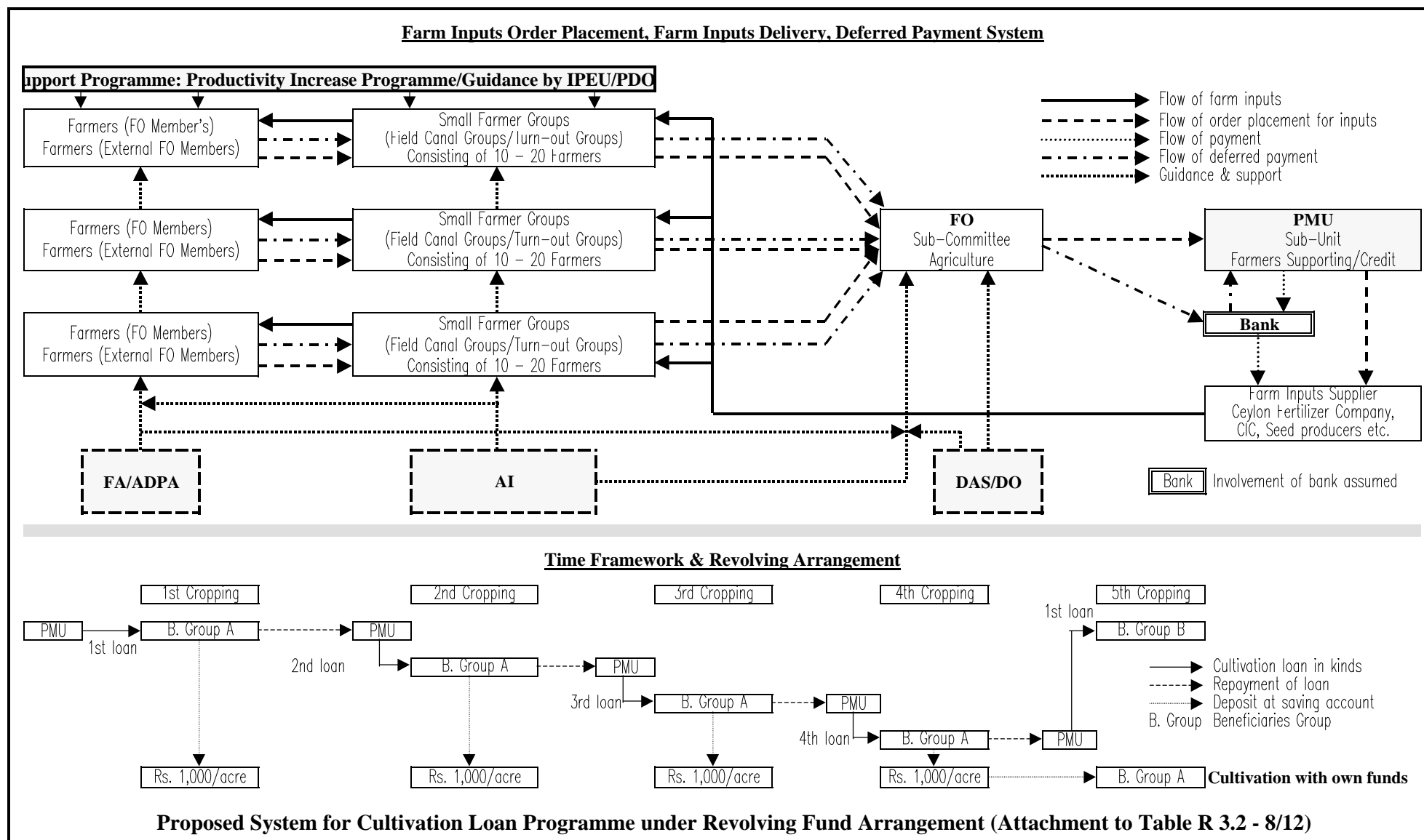
Programme: Study Tour				
Scope of Programme	Field visits to advanced schemes or areas to learn farming activities in the areas			
Objectives	To learn from advanced farmers or FOs			
Subject Areas to Visit	Advanced irrigation schemes, crop diversified areas, advanced farming areas etc.			
Target Groups/Participants	Representative of FOs and farmer groups, AI & ADPA in the target areas of the Project Participants: 50 participants			
Duration & Training Method	1 day			
Executing Agencies	PDOA, IPEU/DOA & DAS in collaboration with			
Implementation by	PDOA or IPEU/DOA in collaboration with DAS			
Monitoring by	Executing agencies			
Estimated Standard Programme Costs per Tour (To be borne by the Project)				
Cost Items	Q'ty		Unit Rate (Rs.)	Amount (Rs.000)
1. Training Materials	packet	1	2,000	2,000
2. Per Diem Allowances	manday	50	100	5,000
3. Transportation Costs	packet	1	4,000	4,000
4. Supervision				
– AI, PDOA, IPEU	staffday	4	200	800
5. Miscellaneous				1,200
Programme Costs(Rs.000)				13,000

Programme: Seed Production Programme				
Scope of Programme	Self production & supply of quality paddy or OFC seed within schemes or FOs			
Objectives	To improve & ensure quality seed supply through self production Programme			
Programme Components	Supply of registered seed Guidance to participating farmers(seed growers) Field inspection by AIs			
Target Groups/Areas	Irrigation schemes with limited supply of quality seed Irrigation schemes where adoption rate of quality seed low Advanced farmers in target schemes			
Beneficiaries Contribution	Costs other than Programme costs to be born by participants Participants should follow guidance of AIs			
Executing Agencies	PDOA or IPEU/DOA in cooperation with DAS			
Implementation by	AI/ADPA in collaboration with participants			
Guidance & Supervision by	AI & PDOA or IPEU			
Monitoring by	AI & ADPA			
Estimated Standard Programme Costs per Ha (To be borne by the Project)				
Cost Items	Q'ty		Unit Rate (Rs.)	Amount (Rs.000)
1. Registered Seed	packet	1	3,000	3,000
2. Guidance Materials	packet	1	100	100
3. Guidance/Supervision Costs				
– AI	staffday	6	200	1,200
– PDOA or IPEU Staff	staffday	3	500	1,500
4. Miscellaneous				200
Programme Costs(Rs.000)				6,000

**Table R 3.2 Description of Support Programme: - 8/12 Agricultural Credit Programmes (Proposed)**

<b>Programme: Cultivation Loan Programme (Paddy &amp; OFC)</b>		<b>Programme: Medium Term Credit Programme</b>	
Scope of Programme	Provision of cultivation loans for paddy & OFC production through FOs/farmer groups under revolving fund arrangement	Scope of Programme	Provision of medium term credit with group loan arrangement for purchasing farm machinery/equipment & animal and construction of farm facilities
Objectives	To support farmers for their adaptation of recommended farming practices by supplying farm inputs etc. under short term credit facilities	Objectives	To support FO/farmer groups (FGs) by providing capital for machinery procurement or facility construction
Programme Implementation	<p>Paddy: Integrated with the paddy productivity increase Programme &amp; implemented under intensive technical guidance of extension staffs</p> <p>OFC: Implemented under technical guidance of extension staffs provided utilizing funds allocated for field operation costs</p>	Programme Implementation	<p>Programme to be introduced as a model case for operation of a medium term credit for procurement of machinery or construction of farm facilities by FO/farmer groups in the Project areas.</p> <p>Follow-up Programme will be by medium term credits operated by banks in the Project areas.</p>
Proposed System	Proposed system shown in an attached figure	Proposed System	Group loan arrangement under FO or farmer group guarantee
Interest Rate (tentative)	12 % (FO commission 6% / bank commission 6%)	Interest Rate (tentative)	12 – 16 % (FO/FG commission 6% / bank commission 6 – 10%)
Loan Period	6 months	Loan Period	3 – 5 years
Target Groups/Areas	Small farmer groups of 10 – 20 farmers; should be members of FOs or external members of FOs	Target Groups/Areas	FOs/farmer groups
Executing Agencies	PMU in collaboration with banks, IPEU, PDOA, DAS	Executing Agencies	PMU in collaboration with banks, DAS
Guidance & Supervision by	PMU, banks, IPEU, PDOA, DAS	Guidance & Supervision by	PMU & banks
Monitoring by	PMU	Monitoring by	PMU
Unit Programme Cost	Paddy/OFC Rs. 15,000/ha	Unit Programme Cost	Rs. 500,000/unit (assuming procurement of a hand tractor)





**Table R 3.2 Description of Support Programme: - 9/12 Institutional Strengthening Programme**

<b>Programme: Induction Staff Training</b>	
Scope of Programme	Induction training of extension/field staff
Objectives	To provide guidance on the Project & supporting services under the Project
Training Subjects	Project concepts & component, project management system, support Programmes
Target Groups/Participants	ADA, AI & DO in the target areas of the Project Participants: 25 staff/course
Duration & Training Method	3 days (24 hours) in class & fields
Places of Training	In-service Training Institute or else
Executing/Monitoring Agencies	PDOA, IPEU/DOA, DAS in collaboration with PMU
Implementation by	PDOA, IPEU/DOA, PDAPH, DAS in collaboration with related agencies & PMU

Estimated Standard Programme Costs per Course (To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.)	
1. Training Materials	packet	1	5,000	5,000
2. Training Allowances				
- Travelling	trip	25	200	5,000
- Per Diem	manday	75	200	15,000
- Accommodation	manday	50	100	5,000
3. Transportation(Field Visit)	packet	1	4,000	4,000
4. Trainers Costs				
- PDOA/IPEU/DAS Staff	staffday	4	500	2,000
- Other Lecturers	staffday	4	1,000	4,000
5. Miscellaneous				2,000
Programme Costs(Rs.000)			42,000	

**Programme: Logistic Support Strengthening Programmes in Crop Sub-sector**

**1. Provision of Motor Cycles & Computer Set**

Scope of Motor Cycles	Strengthening of logistic support of PDOA & IPEU through the provision of motor cycle & computer set
Programme Components	Provision of motor cycle / computer set the implementation & monitoring of support Programmes

<b>Programme: Refresher Training/In-service Training</b>	
Scope of Programme	In-service/refresher training of extension/field staff
Objectives	Periodical training of extension/field staff, M&E and Programme formulation for next season or year
Training Subjects	M&E of Programmes implemented, Programme formulation & subjects on need basis
Target Groups/Participants	AI, DO & APDA in the target areas of the Project Participants: 25 staff/course AI, DO, APDA. Participants: 25 staff/course
Duration & Training Method	3 days (24 hours) in class & fields
Places of Guidance	In-service Training Institute or else
Executing/Monitoring Agencies	PDOA, IPEU/DOA, DAS
Implementation by	PDOA, IPEU, DAS

Estimated Standard Programme Costs per Campaign (To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.)	
1. Training Materials	packet	1	5,000	5,000
2. Training Allowances				
- Travelling	trip	25	200	5,000
- Per Diem	manday	75	200	15,000
- Accommodation	manday	50	100	5,000
3. Transportation(Field Visit)	packet	1	4,000	4,000
4. Trainers Costs				
- PDOA/IPEU/DAS Staff	staffday	4	500	2,000
- Other Lecturers	staffday	4	1,000	4,000
5. Miscellaneous				2,000
Programme Costs(Rs.000)			42,000	

Objectives	Strengthening of logistic support of PDOA & IPEU for the implementation & monitoring of support Programmes
Executing/Monitoring Agency	PDOA, NCP & NWP, IPEU

**Table R 3.2 Description of Support Programme: - 10/12 Institutional Strengthening Programme & Strengthening of Farmers/FOs Institutions & Support Facilities**

Programme: Upgrading of ISTI, Maha Illuppallama			
Scope of Programme	Provision of training equipment & vehicle for transportation		
Objectives	Strengthening of training activities on crop sub-sector in the Study area		
Programme Components			
Provision of:	<div><div><div>- Video camera (VHS)</div><div>- Video deck (VCR)</div><div>- TV</div><div>- Overhead projector &amp; screen</div><div>- Printing machine</div><div>- Copy machine</div><div>- Vehicle (bus: 60 seats)</div></div><div><div>1 unit</div><div>2 units</div><div>1 units</div><div>2 units</div><div>1 unit</div><div>1 unit</div><div>1 unit</div></div></div>		
Executing Agency	ISTI, PDOA, NCP		
Monitoring by	PMU in collaboration with PDOA, NCP		
Estimated Standard Programme Costs			
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)
1. Video camera (VHS)	1 unit	70	70
2. Video deck (VCR)	2 units	30	60
3. TV	1 units	70	70
4. Overhead projector & screen	2 units	50	100
5. Printing machine	1 unit	200	200
6. Copy machine	1 unit	150	150
7. Others	1 set	250	250
Subtotal			900
7. Vehicle (bus: 60 seats)	1 unit	9,000	9,000
Programme Costs(Rs.000)			9,900

Programme: Establishment of "Farmer Center"				
Scope of Programme	Establishment of multi-purpose "Farmer Center" at GN division; with meeting hall, storage & office space			
Objectives	Establishment of "Farmer Center", facilities for meeting, storage & office spaces for farmers, FOs, ADPA (& other field staff) at GN division			
Programme Components				
Construction/Provision of:	<div><div>– "Farmer Center" (140 m<sup>2</sup>) (1 meeting hall &amp; 3 rooms)</div><div>– Facilities of "Farmer Center" (tables, chairs, board, cabinet etc.)</div></div>			
Executing Agency	DAS, Anuradhapura & Kurunegala			
Implementation by	DAS, Anuradhapura & Kurunegala			
Monitoring by	DAS, Anuradhapura & Kurunegala			
Estimated Standard Programme Costs per Center				
DAS	Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)
1.	"Farmer Center" (140 m <sup>2</sup> )	140 m <sup>2</sup>	8,000	1,120
2.	Facilities of "Farmer Center"	1 set	200,000	200
Programme Costs(Rs.000)				1,320

**Table R 3.2 Description of Support Programme: - 11/12 Strengthening of Farmers/FOs Support Institutions & Facilities**

Programme: AS Center Strengthening Programme				
1. Provision of Motor Cycles				
Scope of Programme	Provision of motor cycle to the project related AS Centers			
Objectives	Strengthening of logistic support of the project related AS Centers to enhance support services in the Project areas			
Executing Agencies	PMU			
2. Renovation of AS Center & Provision of Office/Training Equipment				
Scope of Programme	Renovation of Center building & provision of office & training equipment to the project related AS Centers			
Objectives	Strengthening of logistic support of the project related AS Centers to enhance support services in the Project areas			
Executing Agencies	PMU			
Estimated Standard Programme Costs per Course(To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.000)	Amount (Rs.000)	
1. Provision of Motor Cycles				
- Nachchaduwa AS Center	unit	1	1,200	1,200
- Galugamuwa AS Center	unit	1	1,200	1,200
- Mahananneriya AS Center	unit	1	1,200	1,200
Programme Costs(Rs.000)				3,600
2. Renovation of Center Building, Office/Training Equipment				
- Nachchaduwa AS Center	set	1	600	600
- Tirappane AS Center	set	1	600	600
- Galugamuwa AS Center	set	1	600	600
- Mahananneriya AS Center	set	1	600	600
Programme Costs(Rs.000)				2,400
Total Programme Costs(Rs.000)				6,000
Programme: Provision of Vehicle/DAS				
Scope of Programme	Strengthening of logistic support of DAS, Anuradhapura & Kurunegala through the provision of vehicle			
Objectives	Strengthening of logistic support of DAS for support Programmes implementation & monitoring			
Executing/Monitoring Agency	DAS, Anuradhapura & Kurunegala			

Programme: Staff Training Programme / Induction Training of ADPA				
Scope of Programme		Induction training of ADPA		
Objectives		To provide guidance on the Project & supporting services under the Project		
		To provide basic technical & methodological guidance on extension		
Training Subjects		Project concepts & component, project management system, support Programmes		
		Agricultural & extension technology		
Target Groups/Participants		ADPAs in the target areas of the Project		
		Participants: 25 staff/course		
Duration & Training Method		3 days (24 hours) in class & fields		
Places of Training		In-service Training Institute or else		
Executing Agencies		DAS in collaboration with PDOA, IPEU, PDAPH		
Implementation & Monitoring by		DAS in collaboration with PDOA, IPEU, PDAPH		
Estimated Standard Programme Costs per Course(To be borne by the Project)				
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)	
1. Training Materials				
	packet	1	5,000	5,000
2. Training Allowances				
- Travelling	trip	25	200	5,000
- Per Diem	manday	75	200	15,000
- Accommodation	manday	50	100	5,000
3. Transportation(Field Visit)				
	packet	1	4,000	4,000
4. Trainers Costs				
- PDOA/IPEU/DAS Staff	staffday	4	500	2,000
- Other Lecturers	staffday	4	1,000	4,000
5. Miscellaneous				
				2,000
Programme Costs(Rs.000)				42,000

**Table R 3.2 Description of Support Programme: - 12/12 Support Programmes for Income Generation**

Programme: Upgrading of Provincial Seed Farm, Galugamuwa			
Scope of Programme	Upgrading of Seed Farm Facilities at Galugamuwa		
Objectives	Strengthening production of fruit planting materials at the Farm & providing training for private nurseries		
Programme Components: Construction/Provision of			
- Shade house for propagation(200 m <sup>2</sup> )	2 units	- Office quarter (100 m <sup>2</sup> )	1 unit
- Shade house for seedlings(400 m <sup>2</sup> )	2 units	- Storage tank	1 unit
- Water pump & pumping station	1 unit	- Irrigation system (1 ha)	1 unit
- Garage (50 m <sup>2</sup> )	1 unit	- Office facilities	1 set
- Training Equipment	1 set	- Vehicle (4 t truck)	1 unit
Executing Agency	PDOA, NWP		
Implementation/Monitoring	PDOA, NWP		
Estimated Standard Programme Costs			
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)
1. Potting Shed (200 m <sup>2</sup> )	2 unit	6.2	2,480
2. Shade House (400 m <sup>2</sup> )	2 units	5.0	4,000
3. Office Quarter (100 m <sup>2</sup> )	1 unit	12.2	1,220
4. Water Pump & Pumping Station	1 unit	84	84
5. Water Storage Tank	1 unit	32	32
6. Irrigation System (1 ha)	1 unit	24	24
7. Garage (50 m <sup>2</sup> )	1 unit	4.1	205
Sub-total			8,045
8. Training Equipment	1 set	600	600
9. Office Facilities	1 set	500	500
Sub-total			1,100
8. Vehicle (4 t truck)	1 unit	2,000	2,000
Programme Costs(Rs.000)			11,145

Programme: Establishment of Aqua-cultural Extension Center			
Scope of Programme	Establishment of Aqua-cultural Extension Center, at Anuradhapura		
Objectives	Establishment of aqua-cultural extension/support facilities for development of inland fisheries in the Study area		
Programme Components			
Construction/Provision of:	– Extension center building(200m <sup>2</sup> ) (office & 1 lecture room)	1 unit	
	– Training equipment	1 unit	
	– Facilities of extension center (tables, chairs, board, cabinet etc.)	1 set	
		1 set	

Programme: Upgrading of IFTC, Nikaweratiya			
Scope of Programme	Upgrading of training facilities & provision of vehicle for transportation		
Objectives	Strengthening & expanding of training activities on livestock husbandry in the Study area		
Programme Components			
Construction/Provision of:	– Training building(120m <sup>2</sup> ) (2 lecture rooms)		1 unit
	– Hostel (5 rooms x 40m <sup>2</sup> /room) (dormitory to accommodate 30 trainees)		1 unit
	– Manager quarter (100 m <sup>2</sup> )		1 unit
	– Dairy shed (to house 20 cows)		1 unit
	– Mini-size dairy laboratory with (with a processing unit)		1 unit
	– Vehicle (micro-bus: 30 seats)		1 unit
Executing Agency	PDAPH, NWP		
Implementation/Monitoring	PDAPH, NWP		
Estimated Standard Programme Costs			
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)
1. Training building(120m <sup>2</sup> )	1 unit	12.2	1,464
2. Hostel (5 rooms x 40m <sup>2</sup> /room)	1 unit	13.5	2,700
3. Manager quarter (100 m <sup>2</sup> )	1 unit	13.5	1,350
4. Dairy shed (to house 20 cows)	1 unit	300	300
5. Mini-size dairy laboratory	1 unit	500	500
Subtotal			6,314
6. Vehicle (micro-bus: 25 seats)	1 unit		2,900
Programme Costs(Rs.000)			9,214

Executing Institutions	NAQDA		
Monitoring by	NAQDA		
Estimated Standard Programme Costs			
Cost Items	Q'ty	Unit Rate (Rs.)	Amount (Rs.000)
1. Extension center building	1 unit	12.2	2,400
2. Training equipment	1 unit	270	270
3. Facilitates of extension center	1 set	380	380
Programme Costs(Rs.000)			3,050

**Table R 4.1 Implementation Schedules of Support Programmes by Scheme - 1/5: Nachchaduwa Scheme**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.) Years after Commencement of Project Implementation								Implementation Agency
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<b>Awareness Programme Schedule</b>										
<b>Irrigation Works Schedule</b>										
<b>I. Agricultural Support Programme</b>										
<b>I-1. Extension Programmes - Field Programme</b>										
1. Adaptive Trials										
1-1. Adaptive Trials, Paddy	Schedule									IPEU
	Q'ty (unit)		2	2					4	
1-2. Adaptive Trials, OFC & Vegetables	Schedule									IPEU
	Q'ty (unit)		2	4	2				8	
2. Small-scale Demonstration Programme										
2-1. Demonstration Plots, Paddy	Schedule									IPEU
	Q'ty (unit)		5	5	5				15	
2-2. Demonstration Plots, OFC & Vegetables	Schedule									IPEU
	Q'ty (unit)		5	10	10	10	10		45	
3. Cropping Pattern Demonstration Programme										
3-1. Cropping Pattern Demonstration	Schedule									IPEU
	Q'ty (unit)		2	2	2	4	4		14	
4. Large-scale Demonstration Programme										
4-1. Demonstration Block, Paddy	Schedule									IPEU
	Q'ty (unit)		2	2	4	4	2		14	
4-2. Demonstration Farm, Paddy	Schedule									IPEU
	Q'ty (unit)								0	
4-3. Demonstration Farm, OFC	Schedule									IPEU
	Q'ty (unit)		1	2	4	4	4		15	
5. Productivity Increase Programme										
5-1. Paddy Productivity Increase Programme (25ha)	Schedule									IPEU
	Q'ty (unit)			4	4	8	6		22	
6. IPM										
6-1. IPM, Paddy	Schedule									IPEU
	Q'ty (unit)		2	4	3	3	2		14	
6-2. IPM, OFC	Schedule									IPEU
	Q'ty (unit)				2	2	2		6	
<b>I-2. Extension Programmes - Farmer Training Programme</b>										
1. Induction Farmer Training	Schedule									IPEU
	Q'ty (unit)		3						3	
2. Induction Farmer Guidance	Schedule									IPEU
	Q'ty (unit)		24						24	
3. Farmer Training	Schedule									IPEU
	Q'ty (unit)			3	3	3	3		12	
4. Workshop/Mass Guidance	Schedule									IPEU
	Q'ty (unit)		3	6	3	3	3		18	
5. Seed Campaign	Schedule									IPEU
	Q'ty (unit)		3	6	3				12	
6. Study Tour	Schedule									IPEU
	Q'ty (unit)			1	3	3	1		8	
<b>I-3. Seed Production Programme</b>										
1. Paddy Seed Production Programme	Schedule									IPEU
	Q'ty (ha)			20	40	40			100	
2. OFC Seed Production Programme	Schedule									IPEU
	Q'ty (ha)				10	20	10		40	
<b>I-4. Agricultural Credit Programmes</b>										
1. Cultivation Loans										
1-1. Cultivation Loan Programme (Paddy)	Schedule									Banks
	Q'ty (ha)			(100)	(100)	(200)	(150)		(550)	
1-2. Cultivation Loan Programme (OFC & vegetables)	Schedule									Banks
	Q'ty (ha)			(50)	(50)	(50)	(100)		(250)	
2. Medium Term Credit Programme	Schedule									Banks
	Q'ty (unit)			(6)	(6)	(6)	(6)		(24)	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>										
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>										
1. Establishment of "Farmer Center"	Schedule									DAS, Anuradhapura
	Q'ty (unit)			7	7				14	
<b>Follow-up Programmes</b>										

**Table R 4.1 Implementation Schedules of Support Programmes by Scheme - 2/5: Palukadawela Scheme**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.)								Implementation Agency
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<i>Awareness Programme Schedule</i>										
<i>Irrigation Works Schedule</i>										
<b>I. Agricultural Support Programme</b>										
<b>I-1. Extension Programmes - Field Programme</b>										
1. Adaptive Trials										
1-1. Adaptive Trials, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)		2	2					4	
1-2. Adaptive Trials, OFC & Vegetables	Schedule									PDOA, NWP
	Q'ty (unit)		3	3					6	
2. Small-scale Demonstration Programme										
2-1. Demonstration Plots, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)		4	8	4	4			20	
2-2. Demonstration Plots, OFC & Vegetables	Schedule									PDOA, NWP
	Q'ty (unit)		2	4	4	6			16	
3. Cropping Pattern Demonstration Programme										
3-1. Cropping Pattern Demonstration	Schedule									PDOA, NWP
	Q'ty (unit)				1	1			2	
4. Large-scale Demonstration Programme										
4-1. Demonstration Block, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			3	3	3			9	
4-2. Demonstration Farm, Paddy	Schedule									0
	Q'ty (unit)									
4-3. Demonstration Farm, OFC	Schedule									PDOA, NWP
	Q'ty (unit)					2			2	
5. Productivity Increase Programme										
5-1. Paddy Productivity Increase Programme (25ha)	Schedule									PDOA, NWP
	Q'ty (unit)			4	4	4			12	
6. IPM										
6-1. IPM, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			2	2	2			6	
6-2. IPM, OFC	Schedule									PDOA, NWP
	Q'ty (unit)					1			1	
<b>I-2. Extension Programmes - Farmer Training Programme</b>										
1. Induction Farmer Training	Schedule									PDOA, NWP
	Q'ty (unit)		1						1	
2. Induction Farmer Guidance	Schedule									PDOA, NWP
	Q'ty (unit)		9						9	
3. Farmer Training	Schedule									PDOA, NWP
	Q'ty (unit)			1	1	1			3	
4. Workshop/Mass Guidance	Schedule									PDOA, NWP
	Q'ty (unit)		1	2	1	1			5	
5. Seed Campaign	Schedule									PDOA, NWP
	Q'ty (unit)			2	2				4	
6. Study Tour	Schedule									PDOA, NWP
	Q'ty (unit)				1	1			2	
<b>I-3. Seed Production Programme</b>										
1. Paddy Seed Production Programme	Schedule									PDOA, NWP
	Q'ty (ha)				10	20			30	
2. OFC Seed Production Programme	Schedule									PDOA, NWP
	Q'ty (ha)					5			5	
<b>I-4. Agricultural Credit Programmes</b>										
1. Cultivation Loans										
1-1. Cultivation Loan Programme (Paddy)	Schedule									Banks
	Q'ty (ha)			(100)	(100)	(100)			(300)	
1-2. Cultivation Loan Programme (OFC & vegetables)	Schedule									Banks
	Q'ty (ha)				(10)	(50)			(60)	
2. Medium Term Credit Programme	Schedule									Banks
	Q'ty (unit)				(5)	(5)			(10)	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>										
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>										
1. Establishment of "Farmer Center"	Schedule									DAS, Kurunegala
	Q'ty (unit)			7					7	
<b>Follow-up Programmes</b>										

**Table R 4.1 Implementation Schedules of Support Programmes by Scheme - 3/5: Periyakulama Scheme**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.) Years after Commencement of Project Implementation								Implementation Agency
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<b>Awareness Programme Schedule</b>										
<b>Irrigation Works Schedule</b>										
<b>I. Agricultural Support Programme</b>										
<b>I-1. Extension Programmes - Field Programme</b>										
1. Adaptive Trials										
1-1. Adaptive Trials, Paddy	Schedule									PDOA, NCP
	Q'ty (unit)		1	1					2	
1-2. Adaptive Trials, OFC & Vegetables	Schedule									PDOA, NCP
	Q'ty (unit)								0	
2. Small-scale Demonstration Programme										
2-1. Demonstration Plots, Paddy	Schedule									PDOA, NCP
	Q'ty (unit)		2	2					4	
2-2. Demonstration Plots, OFC & Vegetables	Schedule									PDOA, NCP
	Q'ty (unit)			2	1				3	
3. Cropping Pattern Demonstration Programme										
3-1. Cropping Pattern Demonstration	Schedule									PDOA, NCP
	Q'ty (unit)				1				1	
4. Large-scale Demonstration Programme										
4-1. Demonstration Block, Paddy	Schedule									PDOA, NCP
	Q'ty (unit)								0	
4-2. Demonstration Farm, Paddy	Schedule									PDOA, NCP
	Q'ty (unit)			1					1	
4-3. Demonstration Farm, OFC	Schedule									PDOA, NCP
	Q'ty (unit)								0	
5. Productivity Increase Programme										
5-1. Paddy Productivity Increase Programme (25ha)	Schedule									PDOA, NCP
	Q'ty (unit)			1					1	
6. IPM										
6-1. IPM, Paddy	Schedule									PDOA, NCP
	Q'ty (unit)			1					1	
6-2. IPM, OFC	Schedule									PDOA, NCP
	Q'ty (unit)								0	
<b>I-2. Extension Programmes - Farmer Training Programme</b>										
1. Induction Farmer Training	Schedule									PDOA, NCP
	Q'ty (unit)		1						1	
2. Induction Farmer Guidance	Schedule									PDOA, NCP
	Q'ty (unit)		1						1	
3. Farmer Training	Schedule									PDOA, NCP
	Q'ty (unit)			1	1				2	
4. Workshop/Mass Guidance	Schedule									PDOA, NCP
	Q'ty (unit)		1	1	1				3	
5. Seed Campaign	Schedule									PDOA, NCP
	Q'ty (unit)			1					1	
6. Study Tour	Schedule									PDOA, NCP
	Q'ty (unit)			1					1	
<b>I-3. Seed Production Programme</b>										
1. Paddy Seed Production Programme	Schedule									PDOA, NCP
	Q'ty (ha)								0	
2. OFC Seed Production Programme	Schedule									PDOA, NCP
	Q'ty (ha)								0	
<b>I-4. Agricultural Credit Programmes</b>										
1. Cultivation Loans										
1-1. Cultivation Loan Programme (Paddy)	Schedule									Banks
	Q'ty (ha)			(25)					(25)	
1-2. Cultivation Loan Programme (OFC & vegetables)	Schedule									Banks
	Q'ty (ha)			(5)	(5)				(10)	
2. Medium Term Credit Programme	Schedule									Banks
	Q'ty (unit)			(1)					(1)	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>										
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>										
1. Establishment of "Farmer Center"	Schedule									DAS, Anuradhapura
	Q'ty (unit)			1					1	
<b>Follow-up Programmes</b>										



**Table R 4.1 Implementation Schedules of Support Programmes by Scheme - 4/5: Mahananneriya Scheme**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.) Years after Commencement of Project Implementation								Implementation Agency
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<b>Awareness Programme Schedule</b>										
<b>Irrigation Works Schedule</b>										
<b>I. Agricultural Support Programme</b>										
<b>I-1. Extension Programmes - Field Programme</b>										
1. Adaptive Trials										
1-1. Adaptive Trials, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)		1	1					2	
1-2. Adaptive Trials, OFC & Vegetables	Schedule									
	Q'ty (unit)								0	
2. Small-scale Demonstration Programme										
2-1. Demonstration Plots, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			4	4				8	
2-2. Demonstration Plots, OFC & Vegetables	Schedule									PDOA, NWP
	Q'ty (unit)			2	2				4	
3. Cropping Pattern Demonstration Programme										
3-1. Cropping Pattern Demonstration	Schedule									PDOA, NWP
	Q'ty (unit)				1				1	
4. Large-scale Demonstration Programme										
4-1. Demonstration Block, Paddy	Schedule									
	Q'ty (unit)								0	
4-2. Demonstration Farm, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)		2	2	2				6	
4-3. Demonstration Farm, OFC	Schedule									
	Q'ty (unit)								0	
5. Productivity Increase Programme										
5-1. Paddy Productivity Increase Programme (25ha)	Schedule									PDOA, NWP
	Q'ty (unit)			1	1				2	
6. IPM										
6-1. IPM, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			1					1	
6-2. IPM, OFC	Schedule									
	Q'ty (unit)								0	
<b>I-2. Extension Programmes - Farmer Training Programme</b>										
1. Induction Farmer Training	Schedule									PDOA, NWP
	Q'ty (unit)		1						1	
2. Induction Farmer Guidance	Schedule									PDOA, NWP
	Q'ty (unit)		2						2	
3. Farmer Training	Schedule									PDOA, NWP
	Q'ty (unit)			1	1				2	
4. Workshop/Mass Guidance	Schedule									PDOA, NWP
	Q'ty (unit)		1	1	1				3	
5. Seed Campaign	Schedule									PDOA, NWP
	Q'ty (unit)			1					1	
6. Study Tour	Schedule									PDOA, NWP
	Q'ty (unit)			1					1	
<b>I-3. Seed Production Programme</b>										
1. Paddy Seed Production Programme	Schedule									PDOA, NWP
	Q'ty (ha)			5					5	
2. OFC Seed Production Programme	Schedule									PDOA, NWP
	Q'ty (ha)								0	
<b>I-4. Agricultural Credit Programmes</b>										
1. Cultivation Loans										
1-1. Cultivation Loan Programme (Paddy)	Schedule									Banks
	Q'ty (ha)			(25)	(25)				(50)	
1-2. Cultivation Loan Programme (OFC & vegetables)	Schedule									Banks
	Q'ty (ha)				(5)				(5)	
2. Medium Term Credit Programme	Schedule									Banks
	Q'ty (unit)			(3)					(3)	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>										
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>										
1. Establishment of "Farmer Center"	Schedule									DAS, Kurunegala
	Q'ty (unit)			1					1	
<b>Follow-up Programmes</b>										

**Table R 4.1 Implementation Schedules of Support Programmes by Scheme - 5/5: Minor Schemes**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.) Years after Commencement of Project Implementation								Implementation Agency
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<b>Awareness Programme Schedule</b>										
<b>Irrigation Works Schedule</b>										
<b>I. Agricultural Support Programme</b>										
<b>I-1. Extension Programmes - Field Programme</b>										
1. Adaptive Trials										
1-1. Adaptive Trials, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			2					2	
1-2. Adaptive Trials, OFC & Vegetables	Schedule									
	Q'ty (unit)								0	
2. Small-scale Demonstration Programme										
2-1. Demonstration Plots, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)		2	4	4				10	
2-2. Demonstration Plots, OFC & Vegetables	Schedule									PDOA, NWP
	Q'ty (unit)			1	2				3	
3. Cropping Pattern Demonstration Programme										
3-1. Cropping Pattern Demonstration	Schedule									
	Q'ty (unit)								0	
4. Large-scale Demonstration Programme										
4-1. Demonstration Block, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)								0	
4-2. Demonstration Farm, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			2	2				4	
4-3. Demonstration Farm, OFC	Schedule									
	Q'ty (unit)								0	
5. Productivity Increase Programme										
5-1. Paddy Productivity Increase Programme (25ha)	Schedule									PDOA, NWP
	Q'ty (unit)			1	1				2	
6. IPM										
6-1. IPM, Paddy	Schedule									PDOA, NWP
	Q'ty (unit)			1	1				2	
6-2. IPM, OFC	Schedule									
	Q'ty (unit)								0	
<b>I-2. Extension Programmes - Farmer Training Programme</b>										
1. Induction Farmer Training	Schedule									PDOA, NWP
	Q'ty (unit)		1						1	
2. Induction Farmer Guidance	Schedule									PDOA, NWP
	Q'ty (unit)		2						2	
3. Farmer Training	Schedule									PDOA, NWP
	Q'ty (unit)			1	1				2	
4. Workshop/Mass Guidance	Schedule									PDOA, NWP
	Q'ty (unit)		1	2	1				4	
5. Seed Campaign	Schedule									PDOA, NWP
	Q'ty (unit)			1					1	
6. Study Tour	Schedule									PDOA, NWP
	Q'ty (unit)			1					1	
<b>I-3. Seed Production Programme</b>										
1. Paddy Seed Production Programme	Schedule									PDOA, NWP
	Q'ty (ha)			5					5	
2. OFC Seed Production Programme	Schedule									
	Q'ty (ha)								0	
<b>I-4. Agricultural Credit Programmes</b>										
1. Cultivation Loans										
1-1. Cultivation Loan Programme (Paddy)	Schedule									Banks
	Q'ty (ha)			(25)	(25)				(50)	
1-2. Cultivation Loan Programme (OFC & vegetables)	Schedule									Banks
	Q'ty (ha)				(5)				(5)	
2. Medium Term Credit Programme	Schedule									Banks
	Q'ty (unit)			(2)					(2)	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>										
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>										
1. Establishment of "Farmer Center"	Schedule									DAS, Kurunegala
	Q'ty (unit)			5					5	
<b>Follow-up Programmes</b>										

**Table R 4.2 Overall Implementation Schedules of Support Programmes under the Project - 1/2 :  
Agricultural Support Programmes Implemented by Scheme**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.) Years after Commencement of Project Implementation								Implementation Agency
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<b>Awareness Programme Schedule</b>										
<b>Irrigation Works Schedule</b>										
<b>I. Agricultural Support Programme</b>										
<b>I-1. Extension Programmes - Field Programme</b>										
1. Adaptive Trials										
1-1. Adaptive Trials, Paddy	Schedule									IPEU/PDOAs
	Q'ty (unit)		6	8					14	
1-2. Adaptive Trials, OFC & Vegetables	Schedule									IPEU/PDOA, NWP
	Q'ty (unit)		5	7	2				14	
2. Small-scale Demonstration Programme										
2-1. Demonstration Plots, Paddy	Schedule									IPEU/PDOAs
	Q'ty (unit)		13	23	17	4			57	
2-2. Demonstration Plots, OFC & Vegetables	Schedule									IPEU/PDOAs
	Q'ty (unit)		7	19	19	16	10		71	
3. Cropping Pattern Demonstration Programme										
3-1. Cropping Pattern Demonstration	Schedule									IPEU/PDOAs
	Q'ty (unit)		2	2	5	5	4		18	
4. Large-scale Demonstration Programme										
4-1. Demonstration Block, Paddy	Schedule									IPEU/PDOA, NWP
	Q'ty (unit)		2	5	7	7	2		23	
4-2. Demonstration Farm, Paddy	Schedule									IPEU/PDOAs
	Q'ty (unit)		2	5	4				11	
4-3. Demonstration Farm, OFC	Schedule									IPEU/PDOA, NWP
	Q'ty (unit)		1	2	4	6	4		17	
5. Productivity Increase Programme										
5-1. Paddy Productivity Increase Programme (25ha)	Schedule									IPEU/PDOAs
	Q'ty (unit)			11	10	12	6		39	
6. IPM										
6-1. IPM, Paddy	Schedule									IPEU/PDOAs
	Q'ty (unit)		2	9	6	5	2		24	
6-2. IPM, OFC	Schedule									IPEU/PDOA, NWP
	Q'ty (unit)				2	3	2		7	
<b>I-2. Extension Programmes - Farmer Training Programme</b>										
1. Induction Farmer Training	Schedule									IPEU/PDOAs
	Q'ty (unit)		7						7	
2. Induction Farmer Guidance	Schedule									IPEU/PDOAs
	Q'ty (unit)		38						38	
3. Farmer Training	Schedule									IPEU/PDOAs
	Q'ty (unit)			7	7	4	3		21	
4. Workshop/Mass Guidance	Schedule									IPEU/PDOAs
	Q'ty (unit)		7	12	7	4	3		33	
5. Seed Campaign	Schedule									IPEU/PDOAs
	Q'ty (unit)		3	11	5				19	
6. Study Tour	Schedule									IPEU/PDOAs
	Q'ty (unit)			4	4	4	1		13	
<b>I-3. Seed Production Programme</b>										
1. Paddy Seed Production Programme	Schedule									IPEU/PDOAs
	Q'ty (ha)			30	50	60			140	
2. OFC Seed Production Programme	Schedule									IPEU/PDOAs
	Q'ty (ha)				10	25	10		45	
<b>I-4. Agricultural Credit Programmes</b>										
1. Cultivation Loans										
1-1. Cultivation Loan Programme (Paddy)	Schedule									Banks
	Q'ty (ha)			(275)	(250)	(300)	(150)		(975)	
1-2. Cultivation Loan Programme (OFC & vegetables)	Schedule									Banks
	Q'ty (ha)			(55)	(75)	(100)	(100)		(330)	
2. Medium Term Credit Programme	Schedule									Banks
	Q'ty (unit)			(12)	(11)	(11)	(6)		(40)	
<b>Follow-up Programmes</b>										

**Table R 4.2 Overall Implementation Schedules of Support Programmes under the Project - 2/2 :  
Support Programmes Implemented by Project, Province & District Basis**

Sector/Sub-sector/Programmes	Unit	Implementation Schedule (Year & No.)								Implementation Agency
		Years after Commencement of Project Implementation								
		1st	2nd	3rd	4th	5th	6th	7th	Total	
<i>Awareness Programme Schedule</i>										
<i>Irrigation Works Schedule</i>										
<b>I. Agricultural Support Programme</b>										
<b>I-5. Institutional Strengthening Programme</b>										
1. Logistic Support Strengthening Programme										
1-1. Provision of Motor Cycle										
- IPEU	unit		1						1	IPEU
- PDOA, NCP	unit		1						1	PDOA, NCP
- PDOA, NWP	unit		1						1	PDOA, NWP
1-2. Provision of Computer Set										
- IPEU	unit		1						1	IPEU
- PDOA, NWP	unit		1						1	PDOA, NWP
2. Staff Training Programme										
2-1. Induction Staff Training										
	unit	1							1	PDOA, NWP
2-2. Refresher/In-service Training										
	unit		2	2	2	2	2		10	PDOA, NWP
3. Institutional Strengthening										
3-1. Strengthening of Guidance/Supervision/Coordination										
- IPEU	unit	1	1	1	1	1	1		6	IPEU
- PDOA, NCP	unit	1	1	1	1				4	PDOA, NCP
- PDOA, NWP	unit	1	1	1	1	1			5	PDOA, NWP
3-2. Strengthening of Research-Extension-Farmer Linkage										
- PDOA, NCP & IPEU	unit	1	1	1	1	1	1		6	IPEU
- PDOA, NWP	unit	1	1	1	1	1			5	PDOA, NWP
4. Upgrading of ISTI, Maha Illuppallama										
	unit		1						1	PDOA, NCP
<b>II. Strengthening of Farmers &amp; FOs Support Institution &amp; Facilities</b>										
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>										
1. Establishment of "Farmer Center"										
	unit			21	7				28	DAS, Anu & Kru
2. AS Center Strengthening Programme										
2-1. Provision of Motor Cycle/AS Center										
- Nachchaduwa AS Center	unit		1						1	PMU
- Galugamuwa AS Center	unit		1						1	PMU
- Mahananneriya AS Center	unit		1						1	PMU
2-2. Renovation of Building, Office/Training Equipment										
- Nachchaduwa AS Center	unit		1						1	PMU
- Tirappane AS Center	unit		1						1	PMU
- Galugamuwa AS Center	unit		1						1	PMU
- Mahananneriya AS Center	unit		1						1	PMU
<b>II-2. Strengthening of Farmers/FOs Support Institutions</b>										
1. Provision of Vehicle/DAS										
- DAS, Anuradhapura	unit		1						1	DAS, Anuradhapura
- DAS, Kurunegala	unit		1						1	DAS, Kurunegala
2. Staff Training Programme										
2-1. Induction & Refresher Training of DO										
	unit	1	2	2	2	2	2		11	DAS, Anuradhapura
2-2. Induction Training of ADPA										
	unit	1							1	DAS, Anuradhapura
2-3. Refresher Training of ADPA										
	unit		2	2	2	2	2		10	DAS, Anuradhapura
<b>III. Support Programmes for Income Generation</b>										
<b>III-1. Crop Sub-sector</b>										
1. Upgrading of Seed Farm, Galgamuwa										
	unit		1						1	PDOA, NWP
<b>III-2. Livestock Sub-sector</b>										
1. Upgrading of IFTC, Nikaweratiya										
	unit		1						1	PDAPH, NWP
2. Provision of Motor Cycle										
	unit		2						2	PDAPHs
<b>III-2. Inland Fisheries Sub-sector</b>										
1. Establishment of Aqua-culture Extension Center										
	unit		1						1	NAQDA
<b>Follow-up Programmes</b>										

**Table R 4.3 Plan of Operations: Strengthening of Agricultural Support Services - 1/5**















**Name of Scheme: Nachchaduwa Major Scheme**

Activities	Expected Results	Schedule (Year)								Agencies in Charge	Inputs	Remarks
		1st	2nd	3rd	4th	5th	6th	7th	8th			
1. Mobilization of PMU		□										
2. Awareness Programme		▬										
3. Agricultural Support Programmes												
3.1 Extension Programmes												
(1) Field Programmes	Demonstration, adaptive trials, IPM etc. implemented		▬	▬	▬	▬	▬	▬	▬	IPEU	IPEU, DOA, AI, ADPA etc.	demonstration, trial, IPM etc.
(2) Farmer training Programmes	Farmers & representatives of them trained on various		▬	▬	▬	▬	▬	▬	▬	IPEU	DOA, DOI, IPEU, AI, external staff etc.	training, study tour etc.
3.2 Seed production Programmes												
(1) Seed production Programme	Production of quality seeds			▬	▬	▬	▬	▬	▬	IPEU	DOA, IPEU, AI, ADPA etc.	paddy & OFC
3.3 Agricultural credit Programmes												
(1) Cultivation loan Programme (Productivity increase Programme)	Adequate farm inputs supplied to participating farmer groups			▬	▬	▬	▬	▬	▬	PMU, IPEU & DAS	Revolving funds; PMU, DAS, IPEU	cultivation loan under revolving system provided to farmer groups through FO
(2) Medium-term credit Programme	Procurement of machinery or farm facilities by FOs or farmer			▬	▬	▬	▬	▬	▬	PMU, banks & DAS	Credit funds; PMU, DAS banks	group loan for procurement of machinery & farm facility for FO or
3.4 Institutional Strengthening Programme												
(1) Logistic support strengthening Programmes	Motor cycle, computer procured by IPEU		▬							IPEU	Motor cycle, computer set	provision of motor cycle, computer & training equipment
(2) Staff training Programmes	Field staffs of IPEU trained		▬	▬	▬	▬	▬	▬	▬	IPEU/PDOAs	IPEU, PDOA, DOI & external staffs	implemented by all extension agencies in collaboration; induction/refresher staff training
(3) Institutional strengthening	Costs required for research-extension-farmer linkage & supervision/guidance/field operations provided		▬	▬	▬	▬	▬	▬	▬	IPEU	DOA, IPEU & external staffs	strengthening research-extension-farmer linkage & supervision/guidance field operations
4. Strengthening of Farmers/FO support institutions & facilities												
4.1 Establishment of "Farmer Center"	Deployment of multipurpose centers for FO & farmers			▬	▬					DAS	Land, construction materials & office equipment	multi-purpose center with office room for FO & ADPA, store & places for meeting & products collection/selection
4.2 AS Center Nachchaduwa strengthening	Store renovated, office facilities/equipment & motor cycle procured		▬							PMU/DAS	materials & office & training equipment, motor cycle	Center renovation, office & training equipment, motor cycle supply
4.3 Staff training Programmes (DO/ADPAs)	Field staffs of DAS trained		▬	▬	▬	▬	▬	▬	▬	DAS/IPEU	DAS/IPEU/DOA/DOI staffs & external staffs	induction/refresher staff training (DO/ADPA)
5. Follow-up Programme								▬				

Tab R 4.3-1














**Table R 4.3 Plan of Operations: Strengthening of Agricultural Support Services - 2/5**

**Name of Scheme: Palukadawela Major Scheme**

Activities	Expected Results	Schedule (Year)								Agencies in Charge	Inputs	Remarks
		1st	2nd	3rd	4th	5th	6th	7th	8th			
1. Mobilization of PMU												
2. Awareness Programme												
3. Agricultural Support Programmes												
3.1 Extension Programmes												
(1) Field Programmes	Demonstration, adaptive trials, IPM etc. implemented									PDOA, NWP	PDOA staff, AI, ADPA etc.	demonstration, trial, IPM etc.
(2) Farmer training Programmes	Farmers & representatives of them trained on various subjects									PDOA, NWP	PDOA, DOI, AI, external staff etc.	training, study tour etc.
3.2 Seed production Programmes												
(1) Seed production Programme	Production of quality seeds									PDOA, NWP	PDOA staffs, AI, ADPA etc.	paddy & OFC
3.3 Agricultural credit Programmes												
(1) Cultivation loan Programme (Productivity increase Programme)	Adequate farm inputs supplied to participating farmer groups									PMU, PDOA & DAS	Revolving funds; PMU/DAS/PDOA	cultivation loan under revolving system provided to farmers groups
(2) Medium-term credit Programme	Procurement of machinery or farm facilities by FOs or farmer groups									PMU, banks & DAS	Credit funds; PMU, DAS banks	group loan for procurement of machinery & farm facility for FO or farmer groups
3.4 Institutional Strengthening Programme												
(1) Logistic support strengthening Programmes	Motor cycle & computer set procured by PDOA									PDOA, NWP	Motor cycle, computer set	provision of motor cycle/computer
(2) Staff training Programmes	Field staffs of PDOA trained									IPEU/PDOAs	IPEU, PDOA, DOI & external staffs	implemented by all extension agencies in collaboration; induction/refresher staff training
(3) Institutional strengthening	Costs required for research-extension-farmer linkage & supervision/guidance provided									PDOA, NWP	PDOA staffs & external staffs	strengthening research-extension-farmer linkage & supervision/guidance/field operations
4. Strengthening of Farmers/FO support institutions & facilities												
4.1 Establishment of "Farmer Center"	Deployment of multipurpose centers for FO & farmers									DAS	Land, construction materials & office equipment	multi-purpose center with office room for FO & ADPA, store & places for meeting & products collection/selection
4.2 AS Center Galugamuwa strengthening	Office facilities/equipment, telephone facility & motor cycle									PMU/DAS	Office facilities/equipment & telephone facility	office facilities/equipment, telephone facility & motor cycle supply
4.3 Staff training Programmes (DO/ADPAs)	Field staffs of DAS trained									DAS/PDOA	DAS, PDOA, DOI staffs & external staffs	induction/refresher staff training (DO/ADPA)
5. Follow-up Programme												

**Table R 4.3 Plan of Operations: Strengthening of Agricultural Support Services - 3/5**

**Name of Scheme: Periyakulama Medium Scheme**

Activities	Expected Results	Schedule (Year)								Agencies in Charge	Inputs	Remarks
		1st	2nd	3rd	4th	5th	6th	7th	8th			
1. Mobilization of PMU												
2. Awareness Programme												
3. Agricultural Support Programmes												
3.1 Extension Programmes												
(1) Field Programmes	Demonstration, adaptive trials, IPM etc. implemented									PDOA, NCP	PDOA staff, AI, ADPA etc.	demonstration, trial, IPM etc.
(2) Farmer training Programmes	Farmers & representatives of them trained on various subjects									PDOA, NCP	PDOA, DOI, AI, external staff etc.	training, study tour etc.
3.2 Agricultural credit Programmes												
(1) Cultivation loan Programme (Productivity increase Programme)	Adequate farm inputs supplied to participating farmer groups									PMU, PDOA & DAS	Revolving funds; PMU, DAS, PDOA	cultivation loan under revolving system provided to farmer groups through FO
(2) Medium-term credit Programme	Procurement of machinery or farm facilities by FOs or farmer									PMU, banks & DAS	Credit funds; PMU, DAS banks	group loan for procurement of machinery & farm facility for FO or farmer groups
3.3 Institutional Strengthening Programme												
(1) Logistic support strengthening Programmes	Motor cycle procured by PDOA									PDOA, NCP	motor cycle	provision of motor cycle
(2) Staff training Programmes	Field staffs of PDOA trained									IPEU/PDOAs	IPEU, PDOA, DOI & external staffs	implemented by all extension agencies in collaboration; induction/refresher staff training
(3) Institutional strengthening	Costs required for research-extension-farmer linkage & supervision, guidance, field operations provided									IPEU/PDOA	PDOA staffs & external staffs	strengthening research-extension-farmer linkage & supervision/guidance, field operations
4. Strengthening of Farmers/FO support institutions & facilities												
4.1 Establishment of "Farmer Center"	Multipurpose center for FO & farmers constructed									DAS	Land, construction materials & office equipment	multi-purpose center with office room for FO & ADPA, store & places for meeting & products collection/selection
4.2 AS Center Tirappane strengthening	Office facilities/equipment procured, fence & gate									PMU/DAS	Office facilities/equipment & construction materials	office facilities & equipment supply, fence & gate renovation
4.3 Staff training Programmes (DO/ADPAs)	Field staffs of DAS trained									DAS/PDOA	DAS, PDOA, DOI staffs & external staffs	induction/refresher staff training (DO/ADPAs)
5. Follow-up Programme												

**Table R 4.3 Plan of Operations: Strengthening of Agricultural Support Services - 4/5**

**Name of Scheme: Mahananneriya Medium Scheme**

Activities	Expected Results	Schedule (Year)								Agencies in Charge	Inputs	Remarks
		1st	2nd	3rd	4th	5th	6th	7th	8th			
1. Mobilization of PMU												
2. Awareness Programme												
3. Agricultural Support Programmes												
3.1 Extension Programmes												
(1) Field Programmes	Demonstration, adaptive trials, IPM etc. implemented									PDOA, NWP	PDOA staff, AI, ADPA etc.	demonstration, trial, IPM etc.
(2) Farmer training Programmes	Farmers & representatives of them trained on various subjects									PDOA, NWP	PDOA, DOI, AI, external staff etc.	training, study tour etc.
3.2 Seed production Programmes												
(1) Seed production Programme	Production of quality seeds									PDOA, NWP	PDOA staffs, AI, ADPA etc.	paddy & OFC
3.3 Agricultural credit Programmes												
(1) Cultivation loan Programme (Productivity increase Programme)	Adequate farm inputs supplied to participating farmer groups									PMU, PDOA & DAS	Revolving funds; PMU, DAS, PDOA	cultivation loan under revolving system provided to farmer groups through FO
(2) Medium-term credit Programme	Procurement of machinery or farm facilities by FOs or farmer groups									PMU, banks & DAS	Credit funds; PMU, DAS banks	group loan for procurement of machinery & farm facility for FO or farmer groups
3.4 Institutional Strengthening Programme												
(1) Staff training Programmes	Field staffs of PDOA trained									IPEU/PDOAs	IPEU, PDOA, DOI & external staffs	implemented by all extension agencies in collaboration; induction/refresher staff training
(2) Institutional strengthening	Costs required for research-extension-farmer linkage & supervision/guidance, field operations provided									PDOA, NWP	PDOA staffs & external staffs	strengthening research-extension-farmer linkage & supervision/guidance, field operations
4. Strengthening of Farmers/FO support institutions & facilities												
4.1 Establishment of "Farmer Center"	Deployment of multipurpose centers for FO & farmers									DAS	Land, construction materials & office equipment	multi-purpose center with office room for FO & ADPA, store & places for meeting & products collection/selection
4.2 AS Center Mahananneriya strengthening	Office facilities/equipment & motor cycle procured									PMU/DAS	Office facilities/equipment & motor cycle	office facilities/equipment & motor cycle supply
4.3 Staff training Programmes (DO/ADPAs)	Field staffs of DAS trained									DAS/PDOA	DAS, PDOA, DOI staffs & external staffs	induction/refresher staff training (DO/ADPAs)
5. Follow-up Programme												



**Table R 4.3 Plan of Operations: Strengthening of Agricultural Support Services - 5/5**

**Name of Scheme: Mahananneriya Minor Schemes (Cascade)**

Activities	Expected Results	Schedule (Year)								Agencies in Charge	Inputs	Remarks
		1st	2nd	3rd	4th	5th	6th	7th	8th			
1. Mobilization of PMU		■										
2. Awareness Programme		■	■									
3. Agricultural Support Programmes												
3.1 Extension Programmes												
(1) Field Programmes	Demonstration, adaptive trials, IPM etc. implemented		■	■	■					PDOA, NWP	PDOA staff, AI, ADPA etc.	demonstration, trial, IPM etc.
(2) Farmer training Programmes	them trained on various subjects		■	■	■					PDOA, NWP	PDOA, DOI, AI, external staff etc.	training, study tour etc.
3.2 Seed production Programmes												
(1) Seed production Programme	Production of quality seeds			■	■					PDOA, NWP	PDOA staffs, AI, ADPA	paddy & OFC
3.3 Agricultural credit Programmes												
(1) Cultivation loan Programme (Productivity increase Programme)	Adequate farm inputs supplied to participating farmer groups			■	■					PMU, PDOA & DAS	Revolving funds; PMU, DAS, PDOA	cultivation loan under revolving system provided to farmer groups through FO
(2) Medium-term credit Programme	Procurement of machinery or farm facilities by FOs or farmer groups			■	■					PMU, banks & DAS	Credit funds; PMU, DAS banks	group loan for procurement of machinery & farm facility for FOs or farmer groups
3.4 Institutional Strengthening Programme												
(1) Staff training Programmes	Field staffs of PDOA trained	■	■	■	■	■	■	■	■	PDOA, NWP PDOA, NWP	PDOA, DOI & external staffs	implemented by all extension agencies in collaboration; induction/refresher staff training
(2) Institutional strengthening	Costs required for research-extension-farmer linkage & supervision/guidance, field operations provided	■	■	■	■	■	■	■	■	PDOA, NWP	PDOA staffs & external staffs	strengthening research-extension-farmer linkage & supervision/guidance, field operations
4. Farmers/FO support institutions/support facilities												
4.1 Establishment of "Farmer Center"	Deployment of multipurpose centers for FO & farmers			■	■					PMU/DAS	Land, construction materials & office equipment	multi-purpose center with office room for FO & ADPA, store & places for meeting & products collection/selection
4.2 Staff training Programmes (DO/ADPAs)	Field staffs of DAS trained	■	■	■	■	■	■	■	■	DAS/PDOA	DAS, PDOA, DOI staffs & external staffs	induction/refresher staff training (DO/ADPAs)
5. Follow-up Programme						■	■					

**Table R 4.4 Plan of Operations: Strengthening of Agricultural Support Institutions**

Activities	Expected Results	Schedule (Year)								Agencies in Charge	Inputs	Remarks
		1st	2nd	3rd	4th	5th	6th	7th	8th			
1. Mobilization of PMU		■										
2. Awareness Programme		■	■									
3. Irrigation Works			■	■	■	■	■					
4. Agricultural Support Programmes												
4.1 Institutional Strengthening Programme												
(1) Logistic support strengthening Programmes	Motor cycle & computer procured by IPEU/PDOAs		■	■						IPEU/PDOAs	Motor cycle, computer set	Provision of motor cycle & computer set to IPEU, PDOA, NCP & NWP
(2) Staff training Programmes	Field staffs of IPEU/PDOAs trained		■	■	■	■	■	■		IPEU/PDOAs	DOA, DOI, IPEU & PDOAs & external staffs	Induction/refresher training of field staffs; staffs of all agencies trained at the same time
(3) Institutional strengthening	Costs required for research-extension-farmer linkage & supervision/guidance provided		■	■	■	■	■	■		IPEU/PDOAs	DOA, DOI, IPEU & PDOAs & external staffs	Operation costs for research-extension-farmer linkage & supervision, guidance, field operations
(4) Upgrading of ISTI, Maha Illuppalama			■	■						PDOA, NCP	Training equipment, facilities & motor cycle	Strengthening of the in-service training center for staffs & farmers
5. Strengthening of Farmers/FO support institutions & facilities												
5.1 Establishment of "Farmer Center"	Deployment of multipurpose centers for FO & farmers			■	■	■				DAS Anuradhapura DAS Kurunegala	Land, construction materials & office facilities / equipment	Multi-purpose center with office room for FO & ADPA, store & places for meeting & products collection/selection
5.2 AS Center Strengthening Programme strengthening												
(1) Provision of motor cycle/AS Center	Motor cycle procured		■	■						PMU	Motor cycle	motor cycle for integrated activities of field staffs
(2) Renovation of building, office/ training equipment	Center building renovated, office facilities/equipment procured		■	■						PMU	Construction materials & office & training equipment	Center building & store renovation, office & training equipment
6. Support Programmes for Income Generation												
6.1 Crop Sub-sector												
(1) Upgrading of Seed Farm, Galugamuwa	Seed Farm upgraded, motor cycle, office facilities & training equipment procured		■	■						PDOA, NWP	Construction materials, office & training equipment, motor cycle	Upgrading of provincial seed farm to enhance capability of its seedling production
6.2 Livestock Sub-sector												
(1) Upgrading of IFTC, Nikaweratiya	IFTC upgraded, motor cycle & training equipment procured		■	■						PDAPH, NWP	Construction materials & office & training equipment, motor	Upgrading of the farmer training center to expand training capacity in livestock sub-sector
(2) Provision of motor cycle	Motor cycle procured		■	■						PDAPH, NCP & NWI	Motor cycle	Strengthening field extension activities
6.3 Inland Fisheries Sub-sector												
(1) Establishment of AEC, Anuradhapura	AEC established, motor cycle & training equipment procured		■	■						NAQDA	Construction materials & office & training equipment, motor	Establishment of the extension center to expand its activities
7. Follow-up Programme								■				

**Table R 4.5 Overall Work Programmes by Scheme - 1/5: Nachchaduwa Major Scheme**

**Command Area: 2,540 ha**

Unit: Rs.000

Sector/Sub-sector/Programmes	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project Implementation												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th				
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
Awareness Programme																	
Implementation Schedule of Irrigation Works																	
I. Agricultural Support Programmes																	
I-1. Extension Programme - Field Programmes																	
1-1. Adaptive Trials, Paddy	unit	30			2	60	2	60							4	120	IPEU
1-2. Adaptive Trials, OFC & Vegetables	unit	30			2	60	4	120	2	60					8	240	IPEU
1-3. Demonstration Plots, Paddy	unit	16			5	80	5	80	5	80					15	240	IPEU
1-4. Demonstration Plots, OFC & Vegetables	unit	10			5	50	10	100	10	100	10	100	10	100	45	450	IPEU
1-5. Cropping Pattern Demonstration	unit	64			2	128	2	128	2	128	4	256	4	256	14	896	IPEU
1-6. Demonstration Block, Paddy	unit	130			2	260	2	260	4	520	4	520	2	260	14	1,820	IPEU
1-7. Demonstration Farm, Paddy	unit	40													0	0	
1-8. Demonstration Farm, OFC	unit	30			1	30	2	60	4	120	4	120	4	120	15	450	IPEU
1-9. Paddy Productivity Increase Programme	unit	20					4	80	4	80	8	160	6	120	22	440	IPEU
1-10IPM, Paddy	unit	100			2	200	4	400	3	300	3	300	2	200	14	1,400	IPEU
1-11IPM, OFC	unit	100							2	200	2	200	2	200	6	600	IPEU
Sub-total					0	868		1,288		1,588		1,656		1,256		6,656	
I-2. Extension Programme - Farmer Training Programmes																	
2-1. Induction Farmer Training	unit	28			3	84									3	84	IPEU
2-2. Induction Farmer Guidance	unit	8			24	192									24	192	IPEU
2-3. Farmer Training	unit	30					3	90	3	90	3	90	3	90	12	360	IPEU
2-4. Workshop/Mass Guidance	unit	5			3	15	6	30	3	15	3	15	3	15	18	90	IPEU
2-5. Seed Campaign	unit	10			3	30	6	60	3	30					12	120	IPEU
2-6. Study Tour	unit	13					1	13	3	39	3	39	1	13	8	104	IPEU
Sub-total					0	321		193		174		144		118		950	
I-3. Seed Production Programmes																	
3-1. Paddy Seed Production Programme	ha	7					20	140	40	280	40	280			100	700	IPEU
3-2. OFC Seed Production Programme	ha	7							10	70	20	140	10	70	40	280	IPEU
Sub-total					0	0		140		350		420		70		980	
Agricultural Support Programmes Total (I-1-I-3)					0	1,189		1,621		2,112		2,220		1,444		8,586	
I-4. Agricultural Credit Programmes																	
4-1. Cultivation Loans (Paddy)	ha	(15)					(100)	(1,500)	(100)	(1,500)	(200)	(3,000)	(150)	(2,250)	(550)	(8,250)	PMU / Banks
4-2. Cultivation Loans (OFC & vegetables)	ha	(15)					(50)	(750)	(50)	(750)	(50)	(750)	(100)	(1,500)	(250)	(3,750)	PMU / Banks
Credit Programme Sub-total	ha				(0)	(0)	(150)	(2,250)	(150)	(2,250)	(250)	(3,750)	(250)	(3,750)	(800)	(12,000)	
4-3. Medium Term Credit Programme	unit	500					6	3,000	6	3,000	6	3,000	6	3,000	24	12,000	PMU / Banks
Credit Programme Total					0	0		5,250		5,250		6,750		6,750		24,000	
Total Agr. Support Programme Costs by Scheme					0	1,189		6,871		7,362		8,970		8,194		32,586	
II. Strengthening of Farmers & FOs Support Institution/Facilitates																	
II-1. Establishment of Farmers/FOs Support Facilities																	
1-1. Establishment of "Farmer Center"	unit	1,320					7	9,240	7	9,240					14	18,480	DAS, Anuradhapura

**Table R 4.5 Overall Work Programmes by Scheme - 3/5: Periyakulama Medium Scheme**

**Command Area: 91 ha**

Unit: Rs.000

Sector/Sub-sector/Programmes	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project Implementation												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th				
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
Awareness Programme																	
Implementation Schedule of Irrigation Works																	
I. Agricultural Support Programmes																	
I-1. Extension Programme - Field Programmes																	
1-1. Adaptive Trials, Paddy	unit	30			1	30	1	30							2	60	PDOA, NCP
1-2. Adaptive Trials, OFC & Vegetables	unit	30													0	0	
1-3. Demonstration Plots, Paddy	unit	16			2	32	2	32							4	64	PDOA, NCP
1-4. Demonstration Plots, OFC & Vegetables	unit	10					2	20	1	10					3	30	PDOA, NCP
1-5. Cropping Pattern Demonstration	unit	64							1	64					1	64	PDOA, NCP
1-6. Demonstration Block, Paddy	unit	130													0	0	
1-7. Demonstration Farm, Paddy	unit	40					1	40							1	40	PDOA, NCP
1-8. Demonstration Farm, OFC	unit	30													0	0	
1-9. Paddy Productivity Increase Programme	unit	20					1	20							1	20	PDOA, NCP
1-10IPM, Paddy	unit	100					1	100							1	100	PDOA, NCP
1-11IPM, OFC	unit	100													0	0	
Sub-total					0	62		242		74		0		0		378	
I-2. Extension Programme - Farmer Training Programmes																	
2-1. Induction Farmer Training	unit	28			1	28									1	28	PDOA, NCP
2-2. Induction Farmer Guidance	unit	8			1	8									1	8	PDOA, NCP
2-3. Farmer Training	unit	30					1	30	1	30					2	60	PDOA, NCP
2-4. Workshop/Mass Guidance	unit	5			1	5	1	5	1	5					3	15	PDOA, NCP
2-5. Seed Campaign		10					1	10							1	10	PDOA, NCP
2-6. Study Tour	unit	13					1	13							1	13	PDOA, NCP
Sub-total					0	41		58		35		0		0		134	
I-3. Seed Production Programmes																	
3-1. Paddy Seed Production Programme	ha	7													0	0	
3-2. OFC Seed Production Programme	ha	7													0	0	
Sub-total					0	0		0		0		0		0		0	
Agricultural Support Programmes Total (I-1-I-3)					0	103		300		109		0		0		512	
I-4. Agricultural Credit Programmes																	
4-1. Cultivation Loans (Paddy)	ha	(15)					(25)	(375)							(25)	(375)	PMU / Banks
4-2. Cultivation Loans (OFC & vegetables)	ha	(15)					(5)	(75)	(5)	(75)					(10)	(150)	PMU / Banks
Credit Programme Sub-total	ha				(0)		(0)	(30)	(450)	(5)	(75)			(0)	(35)	(525)	
4-3. Medium Term Credit Programme	unit	500					1	500							1	500	PMU / Banks
Credit Programme Total					0		0	950		75		0		0		1,025	
Total Agr. Support Programme Costs by Scheme					0	103		1,250		184		0		0		1,537	
II. Strengthening of Farmers & FOs Support Institution/Facilities																	
II-1. Establishment of Farmers/FOs Support Facilities																	
1-1. Establishment of "Farmer Center"	unit	1,320						0							0	0	DAS, Anuradhapura

**Table R 4.5 Overall Work Programmes by Scheme - 2/5: Palukadawela Major Scheme**

**Command Area: 956 ha**

Unit: Rs.000

Sector/Sub-sector/Programmes	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project Implementation												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th				
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
Awareness Programme																	
Implementation Schedule of Irrigation Works																	
I. Agricultural Support Programmes																	
I-1. Extension Programme - Field Programmes																	
1-1. Adaptive Trials, Paddy	unit	30			2	60	2	60							4	120	PDOA, NWP
1-2. Adaptive Trials, OFC & Vegetables	unit	30			3	90	3	90							6	180	PDOA, NWP
1-3. Demonstration Plots, Paddy	unit	16			4	64	8	128	4	64	4	64			20	320	PDOA, NWP
1-4. Demonstration Plots, OFC & Vegetables	unit	10			2	20	4	40	4	40	6	60			16	160	PDOA, NWP
1-5. Cropping Pattern Demonstration	unit	64							1	64	1	64			2	128	PDOA, NWP
1-6. Demonstration Block, Paddy	unit	130					3	390	3	390	3	390			9	1,170	PDOA, NWP
1-7. Demonstration Farm, Paddy	unit	40													0	0	
1-8. Demonstration Farm, OFC	unit	30									2	60			2	60	PDOA, NWP
1-9. Paddy Productivity Increase Programme	unit	20					4	80	4	80	4	80			12	240	PDOA, NWP
1-10IPM, Paddy	unit	100					2	200	2	200	2	200			6	600	PDOA, NWP
1-11IPM, OFC	unit	100									1	100			1	100	PDOA, NWP
Sub-total				0		234		988		838		1,018		0		3,078	
I-2. Extension Programme - Farmer Training Programmes																	
2-1. Induction Farmer Training	unit	28			1	28									1	28	PDOA, NWP
2-2. Induction Farmer Guidance	unit	8			9	72									9	72	PDOA, NWP
2-3. Farmer Training	unit	30					1	30	1	30	1	30			3	90	PDOA, NWP
2-4. Workshop/Mass Guidance	unit	5			1	5	2	10	1	5	1	5			5	25	PDOA, NWP
2-5. Seed Campaign		10					2	20	2	20					4	40	PDOA, NWP
2-6. Study Tour	unit	13							1	13	1	13			2	26	PDOA, NWP
Sub-total				0		105		60		68		48		0		281	
I-3. Seed Production Programmes																	
3-1. Paddy Seed Production Programme	ha	7							10	70	20	140			30	210	PDOA, NWP
3-2. OFC Seed Production Programme	ha	7									5	35			5	35	PDOA, NWP
Sub-total				0		0		0		70		175		0		245	
Agricultural Support Programmes Total (I-1-I-3)				0		339		1,048		976		1,241		0		3,604	
I-4. Agricultural Credit Programmes																	
4-1. Cultivation Loans (Paddy)	ha	(15)					(100)	(1,500)	(100)	(1,500)	(100)	(1,500)			(300)	(4,500)	PMU / Banks
4-2. Cultivation Loans (OFC & vegetables)	ha	(15)							(10)	(150)	(50)	(750)			(60)	(900)	PMU / Banks
Credit Programme Sub-total	ha			(0)		(0)	(100)	(1,500)	(110)	(1,650)	(150)	(2,250)		(0)	(360)	(5,400)	
4-3. Medium Term Credit Programme	unit	500							5	2,500	5	2,500			10	5,000	PMU / Banks
Credit Programme Total				0		0		1,500		4,150		4,750		0		10,400	
Total Agr. Support Programme Costs by Scheme				0		339		2,548		5,126		5,991		0		14,004	
II. Strengthening of Farmers & FOs Support Institution/Facilitates																	
II-1. Establishment of Farmers/FOs Support Facilities																	
1-1. Establishment of "Farmer Center"	unit	1,320					7	9,240							7	9,240	DAS, Kurunegala

**Table R 4.5 Overall Work Programmes by Scheme - 4/5: Mahananeriya Medium Scheme**

**Command Area Scheme: 158 ha**

Unit: Rs.000

Sector/Sub-sector/Programmes	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project Implementation												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th				
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
Awareness Programme																	
Implementation Schedule of Irrigation Works																	
I. Agricultural Support Programmes																	
I-1. Extension Programme - Field Programmes																	
1-1. Adaptive Trials, Paddy	unit	30			1	30	1	30							2	60	PDOA, NWP
1-2. Adaptive Trials, OFC & Vegetables	unit	30													0	0	
1-3. Demonstration Plots, Paddy	unit	16					4	64	4	64					8	128	PDOA, NWP
1-4. Demonstration Plots, OFC & Vegetables	unit	10					2	20	2	20					4	40	PDOA, NWP
1-5. Cropping Pattern Demonstration	unit	64							1	64					1	64	PDOA, NWP
1-6. Demonstration Block, Paddy	unit	130													0	0	
1-7. Demonstration Farm, Paddy	unit	40			2	80	2	80	2	80					6	240	PDOA, NWP
1-8. Demonstration Farm, OFC	unit	30													0	0	
1-9. Paddy Productivity Increase Programme	unit	20					1	20	1	20					2	40	PDOA, NWP
1-10IPM, Paddy	unit	100					1	100							1	100	PDOA, NWP
1-11IPM, OFC	unit	100													0	0	
Sub-total				0		110		314		248		0		0		672	
I-2. Extension Programme - Farmer Training Programmes																	
2-1. Induction Farmer Training	unit	28			1	28									1	28	PDOA, NWP
2-2. Induction Farmer Guidance	unit	8			2	16									2	16	PDOA, NWP
2-3. Farmer Training	unit	30					1	30	1	30					2	60	PDOA, NWP
2-4. Workshop/Mass Guidance	unit	5			1	5	1	5	1	5					3	15	PDOA, NWP
2-5. Seed Campaign		10					1	10							1	10	PDOA, NWP
2-6. Study Tour	unit	13					1	13							1	13	PDOA, NWP
Sub-total				0		49		58		35		0		0		142	
I-3. Seed Production Programmes																	
3-1. Paddy Seed Production Programme	ha	7					5	35							5	35	PDOA, NWP
3-2. OFC Seed Production Programme	ha	7													0	0	
Sub-total				0		0		35		0		0		0		35	
Agricultural Support Programmes Total (I-1-I-3)				0		159		407		283		0		0		849	
I-4. Agricultural Credit Programmes																	
4-1. Cultivation Loans (Paddy)	ha	(15)					(25)	(375)	(25)	(375)					(50)	(750)	PMU / Banks
4-2. Cultivation Loans (OFC & vegetables)	ha	(15)							(5)	(75)					(5)	(75)	PMU / Banks
Credit Programme Sub-total	ha			(0)		(0)	(25)	(375)	(30)	(450)		(0)		(0)	(55)	(825)	
4-3. Medium Term Credit Programme	unit	500					3	1,500							3	1,500	PMU / Banks
Credit Programme Total				0		0		1,875		450		0		0		2,325	
Total Agr. Support Programme Costs by Scheme				0		159		2,282		733		0		0		3,174	
II. Strengthening of Farmers & FOs Support Institution/Facilities																	
II-1. Establishment of Farmers/FOs Support Facilities																	
1-1. Establishment of "Farmer Center"	unit	1,320					1	1,320							1	1,320	DAS, Kurunegala

**Table R 4.5 Overall Work Programmes by Scheme - 5/5: Mahananneriya Minor Schemes**

**Command Area: 117 ha ( 6 Schemes )**

Unit: Rs.000

Sector/Sub-sector/Programmes	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project Implementation												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th				
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
Awareness Programme																	
Implementation Schedule of Irrigation Works																	
I. Agricultural Support Programmes																	
I-1. Extension Programme - Field Programmes																	
1-1. Adaptive Trials, Paddy	unit	30					2	60							2	60	PDOA, NWP
1-2. Adaptive Trials, OFC & Vegetables	unit	30													0	0	
1-3. Demonstration Plots, Paddy	unit	16			2	32	4	64	4	64					10	160	PDOA, NWP
1-4. Demonstration Plots, OFC & Vegetables	unit	10					1	10	2	20					3	30	PDOA, NWP
1-5. Cropping Pattern Demonstration	unit	64													0	0	
1-6. Demonstration Block, Paddy	unit	130													0	0	
1-7. Demonstration Farm, Paddy	unit	40					2	80	2	80					4	160	PDOA, NWP
1-8. Demonstration Farm, OFC	unit	30													0	0	
1-9. Paddy Productivity Increase Programme	unit	20					1	20	1	20					2	40	PDOA, NWP
1-10IPM, Paddy	unit	100					1	100	1	100					2	200	PDOA, NWP
1-11IPM, OFC	unit	100													0	0	
Sub-total					0		32		334		284			0		0	650
I-2. Extension Programme - Farmer Training Programmes																	
2-1. Induction Farmer Training	unit	28			1	28									1	28	PDOA, NWP
2-2. Induction Farmer Guidance	unit	8			2	16									2	16	PDOA, NWP
2-3. Farmer Training	unit	30					1	30	1	30					2	60	PDOA, NWP
2-4. Workshop/Mass Guidance	unit	5			1	5	2	10	1	5					4	20	PDOA, NWP
2-5. Seed Campaign		10					1	10							1	10	PDOA, NWP
2-6. Study Tour	unit	13					1	13							1	13	PDOA, NWP
Sub-total					0		49		63		35			0		0	147
I-3. Seed Production Programmes																	
3-1. Paddy Seed Production Programme	ha	7					5	35							5	35	PDOA, NWP
3-2. OFC Seed Production Programme	ha	7													0	0	
Sub-total					0		0		35		0			0		0	35
Agricultural Support Programmes Total (I-1-I-3)					0		81		432		319			0		0	832
I-4. Agricultural Credit Programmes																	
4-1. Cultivation Loans (Paddy)	ha	(15)					(25)	(375)	(25)	(375)					(50)	(750)	PMU / Banks
4-2. Cultivation Loans (OFC & vegetables)	ha	(15)							(5)	(75)					(5)	(75)	PMU / Banks
Credit Programme Sub-total	ha			(0)		(0)	(25)	(375)	(30)	(450)		(0)		(0)	(55)	(825)	
4-3. Medium Term Credit Programme	unit	500					2	1,000							2	1,000	PMU / Banks
Credit Programme Total				0		0		1,375		450		0		0		1,825	
Total Agr. Support Programme Costs by Scheme					0		81		1,807		769			0		0	2,657
II. Strengthening of Farmers & FOs Support Institution/Facilities																	
II-1. Establishment of Farmers/FOs Support Facilities																	
1-1. Establishment of "Farmer Center"	unit	1,320					5	6,600							5	6,600	DAS, Kurunegala

**Table R 4.6 Annual Overall Work Programmes of Support Services under the Project - 1/2: Agricultural Support Programmes by Scheme**

**Total Command Area: 3,862 ha ( 6 Schemes )**

Unit: Rs.000

Sector/Sub-sector/Programmes	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project Implementation												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th				
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
Awareness Programme																	
Implementation Schedule of Irrigation Works																	
I. Agricultural Support Programmes																	
I-1. Extension Programme - Field Programmes																	
1-1. Adaptive Trials, Paddy	unit	30			6	180	8	240							14	420	IPEU, PDOAs
1-2. Adaptive Trials, OFC & Vegetables	unit	30			5	150	7	210	2	60					14	420	IPEU, PDOA
1-3. Demonstration Plots, Paddy	unit	16			13	208	23	368	17	272	4	64			57	912	IPEU, PDOAs
1-4. Demonstration Plots, OFC & Vegetables	unit	10			7	70	19	190	19	190	16	160	10	100	71	710	IPEU, PDOAs
1-5. Cropping Pattern Demonstration	unit	64			2	128	2	128	5	320	5	320	4	256	18	1,152	IPEU, PDOAs
1-6. Demonstration Block, Paddy	unit	130			2	260	5	650	7	910	7	910	2	260	23	2,990	IPEU, PDOA
1-7. Demonstration Farm, Paddy	unit	40			2	80	5	200	4	160					11	440	PDOAs
1-8. Demonstration Farm, OFC	unit	30			1	30	2	60	4	120	6	180	4	120	17	510	IPEU, PDOA
1-9. Paddy Productivity Increase Programme	unit	20			0	0	11	220	10	200	12	240	6	120	39	780	IPEU, PDOAs
1-1CIPM, Paddy	unit	100			2	200	9	900	6	600	5	500	2	200	24	2,400	IPEU, PDOAs
1-11IPM, OFC	unit	100							2	200	3	300	2	200	7	700	IPEU, PDOA
Sub-total				0		1,306		3,166		3,032		2,674		1,256		11,434	
I-2. Extension Programme - Farmer Training Programmes																	
2-1. Induction Farmer Training	unit	28			7	196									7	196	IPEU, PDOAs
2-2. Induction Farmer Guidance	unit	8			38	304									38	304	IPEU, PDOAs
2-3. Farmer Training	unit	30					7	210	7	210	4	120	3	90	21	630	IPEU, PDOAs
2-4. Workshop/Mass Guidance	unit	5			7	35	12	60	7	35	4	20	3	15	33	165	IPEU, PDOAs
2-5. Seed Campaign		10			3	30	11	110	5	50					19	190	IPEU, PDOAs
2-6. Study Tour	unit	13					4	52	4	52	4	52	1	13	13	169	IPEU, PDOAs
Sub-total				0		565		432		347		192		118		1,654	
I-3. Seed Production Programmes																	
3-1. Paddy Seed Production Programme	ha	7					30	210	50	350	60	420			140	980	IPEU, PDOA
3-2. OFC Seed Production Programme	ha	7							10	70	25	175	10	70	45	315	IPEU, PDOA
Sub-total				0		0		210		420		595		70		1,295	
Agricultural Support Programmes Total (I-1-I-3)				0		1,871		3,808		3,799		3,461		1,444		14,383	
I-4. Agricultural Credit Programmes																	
4-1. Cultivation Loans (Paddy)	ha	(15)					(275)	(4125)	(250)	(3750)	(300)	(4500)	(150)	(2250)	(975)	(14625)	PMU / Banks
4-2. Cultivation Loans (OFC & vegetables)	ha	(15)					(55)	(825)	(75)	(1125)	(100)	(1500)	(100)	(1500)	(330)	(4950)	PMU / Banks
Credit Programme Sub-total	ha						(330)	(4950)	(325)	(4875)	(400)	(6000)	(250)	(3750)	(1305)	(19575)	
4-3. Medium Term Credit Programme	unit	(500)					(12)	(6000)	(11)	(5500)	(11)	(5500)	(6)	(3000)	(40)	(20000)	PMU / Banks
Credit Programme Total				0		0		10,950		10,375		11,500		6,750		39,575	
Total Agr. Support Programme Costs by Scheme				0		1,871		14,758		14,174		14,961		8,194		53,958	
II. Strengthening of Farmers & FOs Support Institution/Facilitates																	
II-1. Establishment of Farmers/FOs Support Facilities																	
1-1. Establishment of "Farmer Center"	unit	1,320					20	26,400	7	9,240					27	35,640	DASs



**Table R 4.6 Annual and Overall Work Programmes of Support Services under the Project - 2/2 : Province or District Base Programmes - 1**

Unit: Rs.000

	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project												Implementation Agency			
			1st		2nd		3rd		4th		5th		6th			Total		
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount		Q'ty	Amount	
<b>I. Agricultural Support Programmes</b>																		
<b>I-5. Institutional Strengthening Programme</b>																		
5-1. Logistic Support Strengthening Programme																		
Provision of Motor Cycle																		
- IPEU	unit	100			1	100										1	100	IPEU
- PDOA, NCP	unit	100			1	100										1	100	PDOA, NCP
- PDOA, NWP	unit	100			1	100										1	100	PDOA, NWP
Provision of Computer Set																		
- IPEU	set	200			1	200										1	200	IPEU
- PDOA, NWP	set	200			1	200										1	200	PDOA, NWP
Sub-total						700											700	
5-2. Staff Training Programme																		
Induction Staff Training																		
- IPEU / PDOA, NCP & NWP	unit	42	1	42												1	42	PDOA, NWP
Refresher/In-service Training																		
- IPEU / PDOA, NCP & NWP	unit	42			2	84	2	84	2	84	2	84	2	84	10	420		PDOA, NWP
Sub-total				42		84		84		84		84		84		462		
5-3. Institutional Strengthening																		
Strengthening of Guidance/Supervision/Coordination																		
- IPEU	unit			100		400		500		500		500		500			2,500	IPEU
- PDOA, NCP	unit			100		100		200		100							500	PDOA, NCP
- PDOA, NWP	unit			100		400		500		500		500					2,000	PDOA, NWP
Strengthening of Research-Extension-Farmer Linkage																		
- PDOA, NCP & IPEU	unit			100		300		300		300		300					1,300	IPEU
- PDOA, NWP	unit			100		300		300		300		300					1,300	PDOA, NWP
Sub-total				500		1,500		1,800		1,700		1,600		500			7,600	
5-4. Upgrading of ISTI, Maha Illuppallama																		
	unit	9,900			1	9,900										1	9,900	PDOA, NCP
<b>Institutional Strengthening Total</b>																		
				542		12,184		1,884		1,784		1,684		584			18,662	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>																		
<b>II-1. Strengthening of Farmers/FOs Support Facilities</b>																		
1-1. Establishment of "Farmer Center"																		
	unit	1,320					21	27,720	7	9,240						28	36,960	DASs
1-2. AS Center Strengthening Programme																		
Provision of Motor Cycle/AS Center																		
- AS Center Nachchaduwa, Anuradhapura	unit	100			1	100										1	100	PMU
- AS Center Galugamuwa, Kurunegala	unit	100			1	100										1	100	PMU
- AS Center Mahananneriya, Kurunegala	unit	100			1	100										1	100	PMU
Renovation of Building, Office/Training Equipment																		
- AS Center Nachchaduwa, Anuradhapura	unit	600			1	600										1	600	PMU
- AS Center Tirappane, Anuradhapura	unit	600			1	600										1	600	PMU
- AS Center Galugamuwa, Kurunegala	unit	600			1	600										1	600	PMU
- AS Center Mahananneriya, Kurunegala	unit	600			1	600										1	600	PMU
Sub-total						2,700											2,700	
<b>Farmers/FOs Support Facilities Total</b>																		
						2,700		27,720		9,240							39,660	

**Table R 4.6 Annual and Overall Work Programmes of Support Services under the Project - 2/2 : Province or District Base Programmes - 2**

Unit: Rs.000

	Unit	Unit Cost (Rs. 000)	Years after Commencement of Project												Total		Implementation Agency
			1st		2nd		3rd		4th		5th		6th		Total		
			Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	Q'ty	Amount	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>																	
<b>II-2. Strengthening of Farmers/FOs Support Institutions</b>																	
2-1. Provision of Vehicle/DAS Office																	
DAS, Anuradhapura	unit	1,200			1	1,200									1	1,200	DAS, Anuraqdhapura
DAS, Kurunegala	unit	1,200			1	1,200									1	1,200	DAS, Kurunegala
Sub-total						2,400										2,400	
2-2. Staff Training Programme																	
Induction & Refresher Training of DO																	
- DAS, Anuradhapura & Kurunegala	unit	42	1	42	2	84	2	84	2	84	2	84	2	84	11	462	DAS, Anuraqdhapura
Induction Training of ADPA																	
- DAS, Anuradhapura & Kurunegala	unit	42	1	42											1	42	DAS, Anuraqdhapura
Refresher Training																	
- DAS, Anuradhapura & Kurunegala	unit	42			2	84	2	84	2	84	2	84	2	84	10	420	DAS, Anuraqdhapura
Sub-total				84		168		168		168		168		168		924	
Farmers/FOs Support Institutions Total				84		2,568		168		168		168		168		3,324	
Farmers/FOs Support Institution/Facilities Total				84		5,268		27,888		9,408		168		168		42,984	
<b>III. Support Programmes for Income Generation</b>																	
<b>III-1. Crop Sub-sector</b>																	
1-1. Upgrading of Seed Farm, Galgamuwa	unit	11,145			1	11,145									1	11,145	PDOA, NWP
<b>III-2. Livestock Sub-sector</b>																	
2-1. Upgrading of IFTC, Nikaweratiya	unit	9,214			1	9,214									1	9,214	PDAPH, NWP
2-2. Provision of Motor Cycle																	
- PDAPH, NCP	unit	100			1	100									1	100	PDAPH, NCP
- PDAPH, NWP	unit	100			1	100									1	100	PDAPH, NWP
Livestock Sub-sector Total						9,414										9,414	
<b>III-3. Inland Fisheries Sub-sector</b>																	
3-1. Establishment of Aqua-culture Extension Center	unit	3,250			1	3,250									1	3,250	NAQDA
Programmes for Income Generation Total				0		23,809		0		0		0		0		23,809	
Programmes by Province & District Base				626		41,261		29,772		11,192		1,852		752		85,455	
Programme Costs by Scherme 1/						1,871		14,758		14,174		14,961		8,194		53,958	
Overall Programme Costs 1/				626		43,132		44,530		25,366		16,813		8,946		139,413	

1/: Including credit Programme costs

**Table R 4.7 Overall Programme Costs for Support Programmes**

Sector/Sub-sector/Programmes	Support Programme Costs (Rs.000)						Total		
	Years after Commencement of Project								
	1st	2nd	3rd	4th	5th	6th	(Rs.000)	(%)	
<b>I. Agricultural Support Programme</b>									
<b>I-1. Extension Programmes - Field Programme</b>		1,306	3,166	3,032	2,674	1,256	11,434	52.6	
<b>I-2. Extension Programmes - Farmer Training Programme</b>		565	432	347	192	118	1,654		
<b>I-3. Seed Production Programme</b>			210	420	595	70	1,295		
<b>I-4. Agricultural Credit Programme</b>			10,950	10,375	11,500	6,750	39,575		
<b>I-5. Institutional Strengthening Programme</b>									
1. Logistic Support Strengthening Programme									
1-1. Provision of Motor Cycle		300					300		
1-2. Provision of Computer Set		400					400		
2. Staff Training Programme	42	84	84	84	84	84	462		
3. Institutional Strengthening	500	1,500	1,800	1,700	1,600	500	7,600		
4. Upgrading of ISTI, Maha Illuppallama		9,900					9,900		
Sub-total	542	12,184	1,884	1,784	1,684	584	18,662		
<b>Agricultural Support Programme Total - A 1/</b>	<b>542</b>	<b>14,055</b>	<b>16,642</b>	<b>15,958</b>	<b>16,645</b>	<b>8,778</b>	<b>72,620</b>	52.6	
<b>Agricultural Support Programme Total - B 2/</b>	<b>542</b>	<b>14,055</b>	<b>5,692</b>	<b>5,583</b>	<b>5,145</b>	<b>2,028</b>	<b>33,045</b>	30.2	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Facilities</b>									
<b>II-1. Farmers/FOs Support Facilities</b>									
1. Establishment of "Farmer Center"			26,400	9,240			35,640		
<b>2. AS Center Strengthening Programme</b>									
2-1. Provision of Motor Cycle/AS Center		300					300		
2-2. Renovation of Building, Office/Training Equipment		2,400					2,400		
Sub-total	0	2,700	26,400	9,240	0	0	38,340		
<b>II-2. Farmers/FOs Support Institutions</b>									
1. Provision of Vehicle/DAS		2,400					2,400		
2. Staff Training Programme	84	168	168	168	168	168	924		
Sub-total	84	2,568	168	168	168	168	3,324		
<b>Strengthening of Farmers &amp; FOs Total</b>	<b>84</b>	<b>5,268</b>	<b>26,568</b>	<b>9,408</b>	<b>168</b>	<b>168</b>	<b>41,664</b>	30.2	
<b>III. Support Programmes for Income Generation</b>									
<b>III-1. Crop Sub-sector</b>									
1. Upgrading of Seed Farm, Galgamuwa		11,145					11,145		
<b>III-2. Livestock Sub-sector</b>									
1. Upgrading of IFTC, Nikaweratiya		9,214					9,214		
2. Provision of Motor Cycle		200					200		
Sub-total	0	9,414		0	0	0	9,414		
<b>III-2. Inland Fisheries Sub-sector</b>									
1. Establishment of Aqua-culture Extension Center		3,250					3,250		
<b>Support Programmes for Income Generation Total</b>	<b>0</b>	<b>23,809</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,809</b>	17.2	
<b>Overall Programme Costs - A 1/</b>	<b>626</b>	<b>43,132</b>	<b>43,210</b>	<b>25,366</b>	<b>16,813</b>	<b>8,946</b>	<b>138,093</b>	100.0	
<b>Overall Programme Costs - B 2/</b>	<b>626</b>	<b>43,132</b>	<b>32,260</b>	<b>14,991</b>	<b>5,313</b>	<b>2,196</b>	<b>98,518</b>		

1/: Including credit Programmes

2/: Not including credit Programmes

**Table R 4.8 Overall Programme Costs for Support Programmes by Implementation Agency**

**1. Support Programmes by IPEU / PDOA, NCP & NWP**

Sector/Sub-sector/Programmes	Programme Costs (Rs.000)						Total	
	1st	2nd	3rd	4th	5th	6th	(Rs.000)	(%)
<b>I. Agricultural Support Programme</b>								
<b>A. IPEU</b>								
1. Extension Programmes - Field Programme		868	1,288	1,588	1,656	1,256	6,656	
2. Extension Programmes - Farmer Training Programme		321	193	174	144	118	950	
3. Seed Production Programme			140	350	420	70	980	
4. Institutional Strengthening Programme	200	100	800	800	800	500	3,200	
IPEU Total	200	1,289	2,421	2,912	3,020	1,944	11,786	8.5
<b>B. PDOA, NCP</b>								
1. Extension Programmes - Field Programme		62	242	74			378	
2. Extension Programmes - Farmer Training Programme		41	58	35			134	
3. Seed Production Programme							0	
4. Institutional Strengthening Programme							0	
4-1. Upgrading of ISTI, Maha Illuppallama		9,900					9,900	
4-2. Other Programmes	100	100	200	100			500	
PDOA, NCP Total	100	10,103	500	209	0	0	10,912	7.9
<b>C. PDOA, NWP</b>								
1. Extension Programmes - Field Programme		376	1,636	1,370	1,018		4,400	
2. Extension Programmes - Farmer Training Programme		203	181	138	48		570	
3. Seed Production Programme			70	70	175		315	
4. Institutional Strengthening Programme	242	2,084	884	884	884	84	5,062	
PDOA, NWP Total	242	2,663	2,771	2,462	2,125	84	10,347	7.5
<b>II. Support Programmes for Income Generation</b>								
<b>A. PDOA, NWP</b>								
1. Upgrading of Seed Farm, Galugamuwa		11,145					11,145	
<b>Overall Costs by Agency/IPEU, PDOAs</b>	542	25,200	5,692	5,583	5,145	2,028	44,190	32.0

**2. Support Programmes by DAS, Anuradhapura & Kurunegala**

Sector/Sub-sector/Programmes	Programme Costs (Rs.000)						Total	
	1st	2nd	3rd	4th	5th	6th	(Rs.000)	(%)
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Support Facilities</b>								
<b>A. DAS Anuradhapura</b>								
1. Strengthening of Farmers/FOs Support Facilities								
1-1. Establishment of "Farmer Center"			9,240	9,240			18,480	
2. Strengthening of Farmers/FOs Support Institutions								
2-1. Provision of Vehicle/DAS		1,200					1,200	
2-2. Staff Training Programme	84	168	168	168	168	168	924	
DAS, Anuradhapura Total	84	1,368	9,408	9,408	168	168	20,604	14.9
<b>B. DAS Kurunegala</b>								
1. Strengthening of Farmers/FOs Support Facilities								
1-1. Establishment of "Farmer Center"			17,160				17,160	
2. Strengthening of Farmers/FOs Support Institutions								
2-1. Provision of Vehicle/DAS		1,200					1,200	
2-2. Staff Training Programme (allocated in DAS, Anu.)							0	
DAS, Kurunegala Total		1,200	17,160				18,360	
<b>Overall Costs by Agency / DASs</b>	84	2,568	26,568	9,408	168	168	38,964	28.2

**3. Support Programmes by PDAPH, NCP & NWP**

Sector/Sub-sector/Programmes	Programme Costs (Rs.000)						Total	
	1st	2nd	3rd	4th	5th	6th	(Rs.000)	(%)
<b>III. Support Programmes for Income Generation</b>								
<b>A. PDAPH, NCP</b>								
1. Provision of Vehicle		100					100	
<b>B. PDAPH, NWP</b>								
1. Upgrading of IFTC, Nikaweratiya		9,214					9,214	
2. Provision of Vehicle		100					100	
PDAPH, NWP Total		9,314					9,314	
<b>Overall Costs by Agency / PDAPHs</b>	0	9,414	0	0	0	0	9,414	6.8

**4. Support Programmes by NAQDA**

Sector/Sub-sector/Programmes	Programme Costs (Rs.000)						Total	
	1st	2nd	3rd	4th	5th	6th	(Rs.000)	(%)
<b>III. Support Programmes for Income Generation</b>								
1. Establishment of Aqua-culture Extension Center		3,250					3,250	
<b>Overall Costs by Agency / NAQDA</b>	0	3,250	0	0	0	0	3,250	2.4

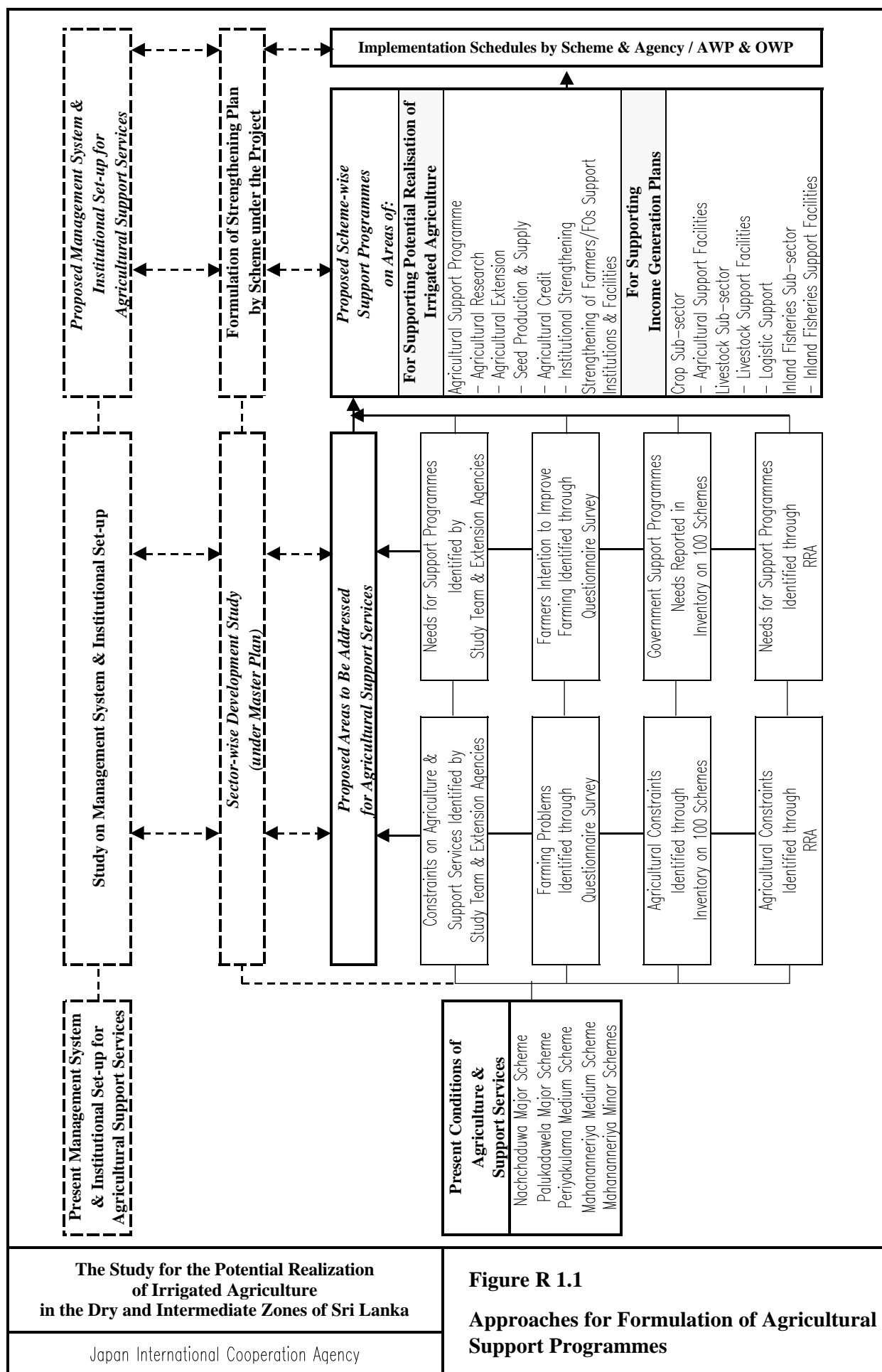
**5. Support Programmes Implemented by PMU**

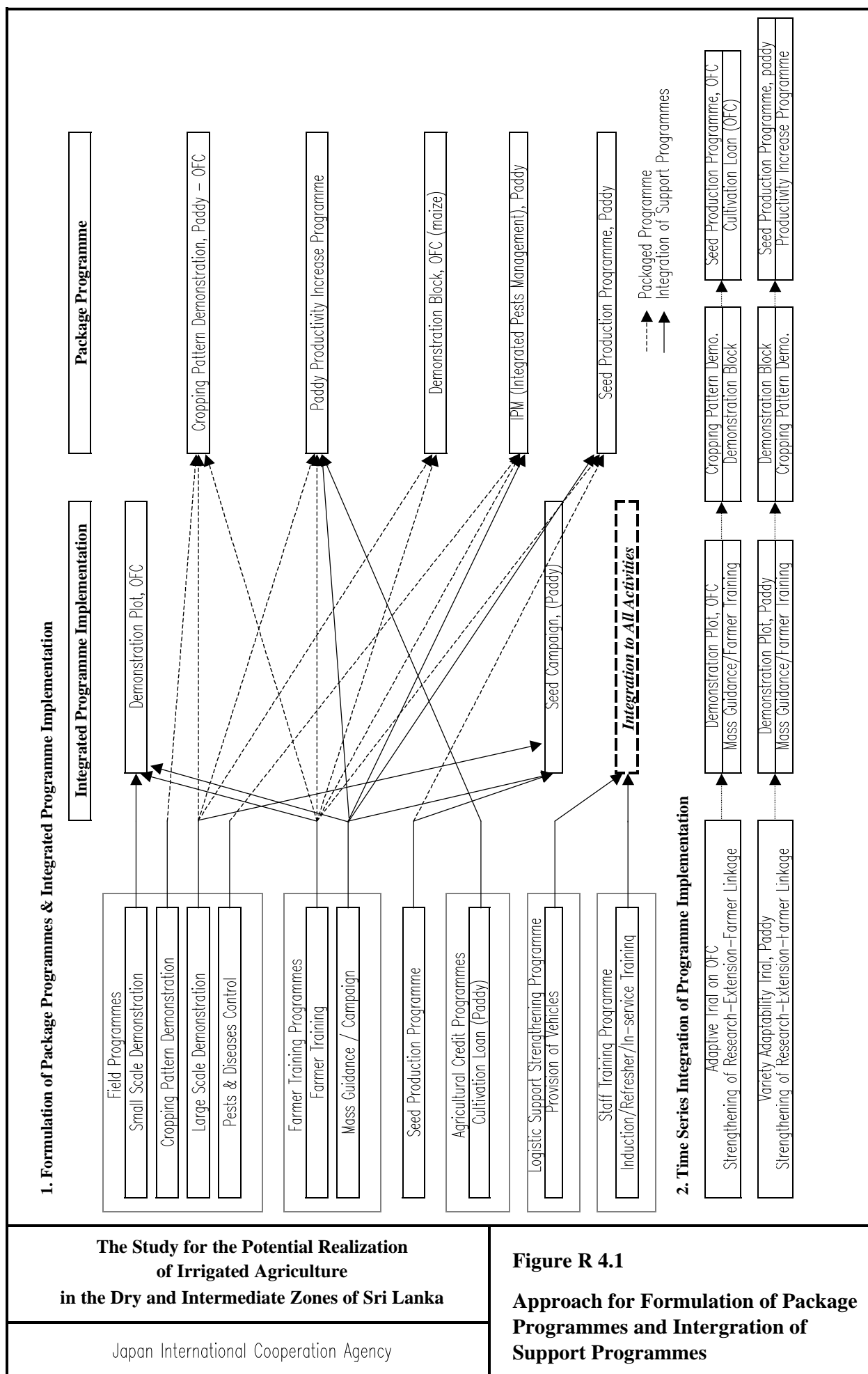
Sector/Sub-sector/Programmes	Programme Costs (Rs.000)						Total	
	1st	2nd	3rd	4th	5th	6th	(Rs.000)	(%)
<b>I. Agricultural Support Programme</b>								
<b>1. Agricultural Credit Programmes</b>								
1. Cultivation Loan & Medium Term Credit			10,950	10,375	11,500	6,750	39,575	
<b>II. Strengthening of Farmers &amp; FOs Support Institution/Facilities</b>								
<b>1. AS Center Strengthening Programme</b>								
1-1. Provision of Vehicle/AS Center		300					300	
1-2. AS Center Strengthening Programme		2,400					2,400	
<b>Overall Costs by Agency / PMU</b>	0	2,700	10,950	10,375	11,500	6,750	42,275	30.6
<b>Overall Support Programme Costs under Project</b>	626	43,132	43,210	25,366	16,813	8,946	138,093	100.0

**Table R 5.1 Basic Time Framework for Planning and Implementation of Agricultural Support Programmes**

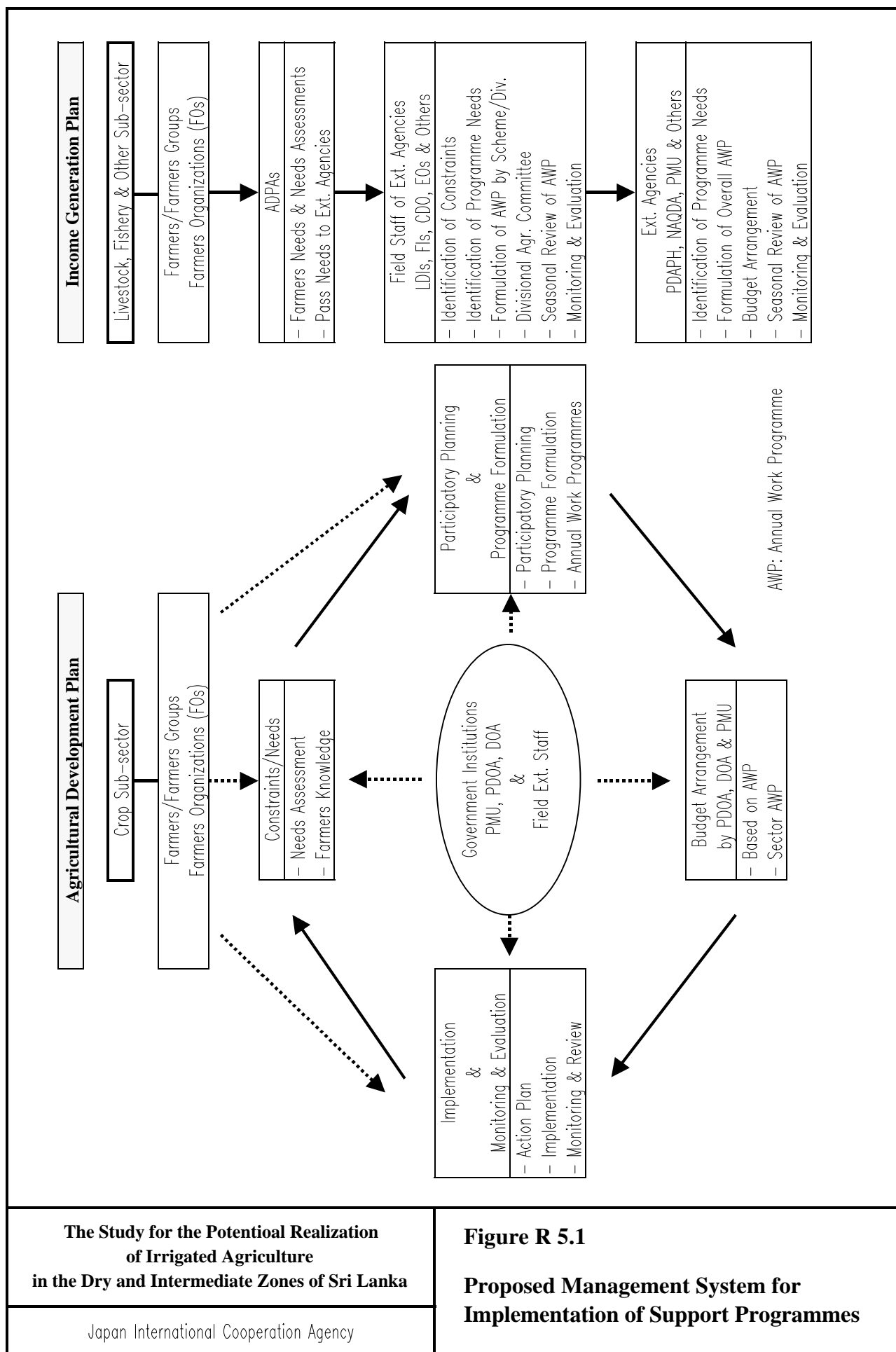
Cropping Season / Activities	Fiscal Year -1						Fiscal Year 1								Responsive Parties
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	
Yala Season Cropping															
Maha Season Cropping															
PTWG(Provincial Technical Working Group)															PDOAs/IPEU & Research Institutes
Diagnostic Teams															PDOAs/IPEU & Research Institutes
<b>For Annual Programmes</b>															
Workshop for Programme Formulation (Annual)															PMU, PDOAs/IPEU, FOs
Programme Formulation (Annual)															PMU, PDOAs/IPEU, FOs
Preparation of AWP (Annual)															PMU, PDOAs/IPEU
Budget Arrangement (Annual)															PMU, PDOAs/IPEU
Preparation of Action Plan (Annual)															PMU, PDOAs/IPEU
<b>For Yala Season Programmes</b>															
Preparation for Implementation (Yala Prog.)															PMU, PDOAs/IPEU, FOs
Programme Guidance/Training (Yala Prog.)															PMU, PDOAs/IPEU, DAS, FOs, Farmers
Programme Implementation (Yala Prog.)															PMU, PDOAs/IPEU, DAS, FOs, Farmers
<b>For Maha Season Programmes</b>															
Workshop for Programme Review (Maha Prog.)															PMU, PDOAs/IPEU, FOs
Seasonal Review of AWP (Maha Prog.)															PMU, PDOAs/IPEU
Review of Action Plan (Maha Prog.)															PMU, PDOAs/IPEU
Preparation for Implementation (Maha Prog.)															PMU, PDOAs/IPEU, FOs
Programme Guidance/Training (Maha Prog.)															PMU, PDOAs/IPEU, DAS, FOs, Farmers
Programme Implementation (Maha Prog.)															PMU, PDOAs/IPEU, DAS, FOs, Farmers
M & E of Programme Implementation															PMU, PDOAs/IPEU
Divisional Agricultural Committee (Monthly)															
District Agricultural Committee (Monthly)															

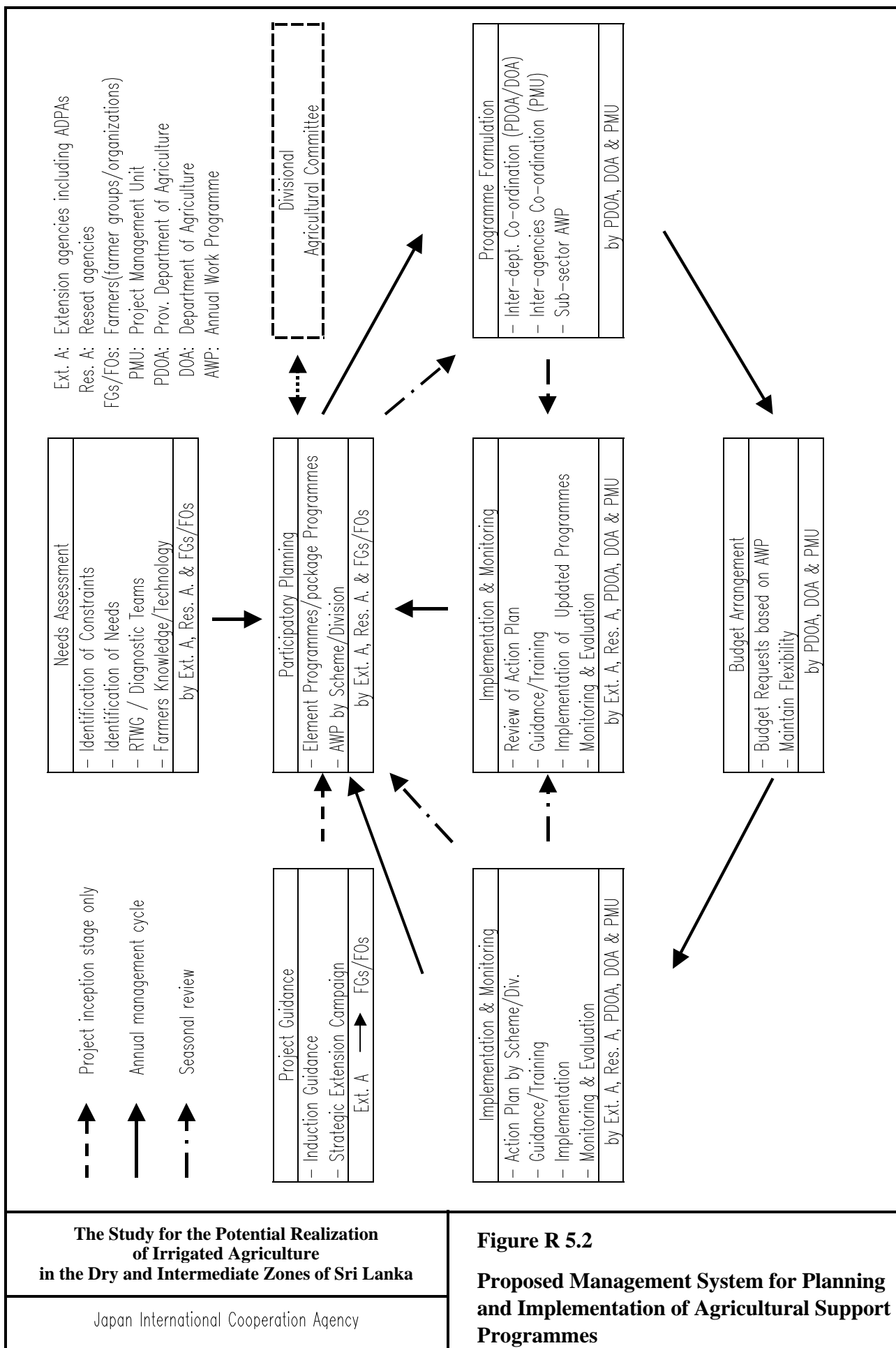
## FIGURES

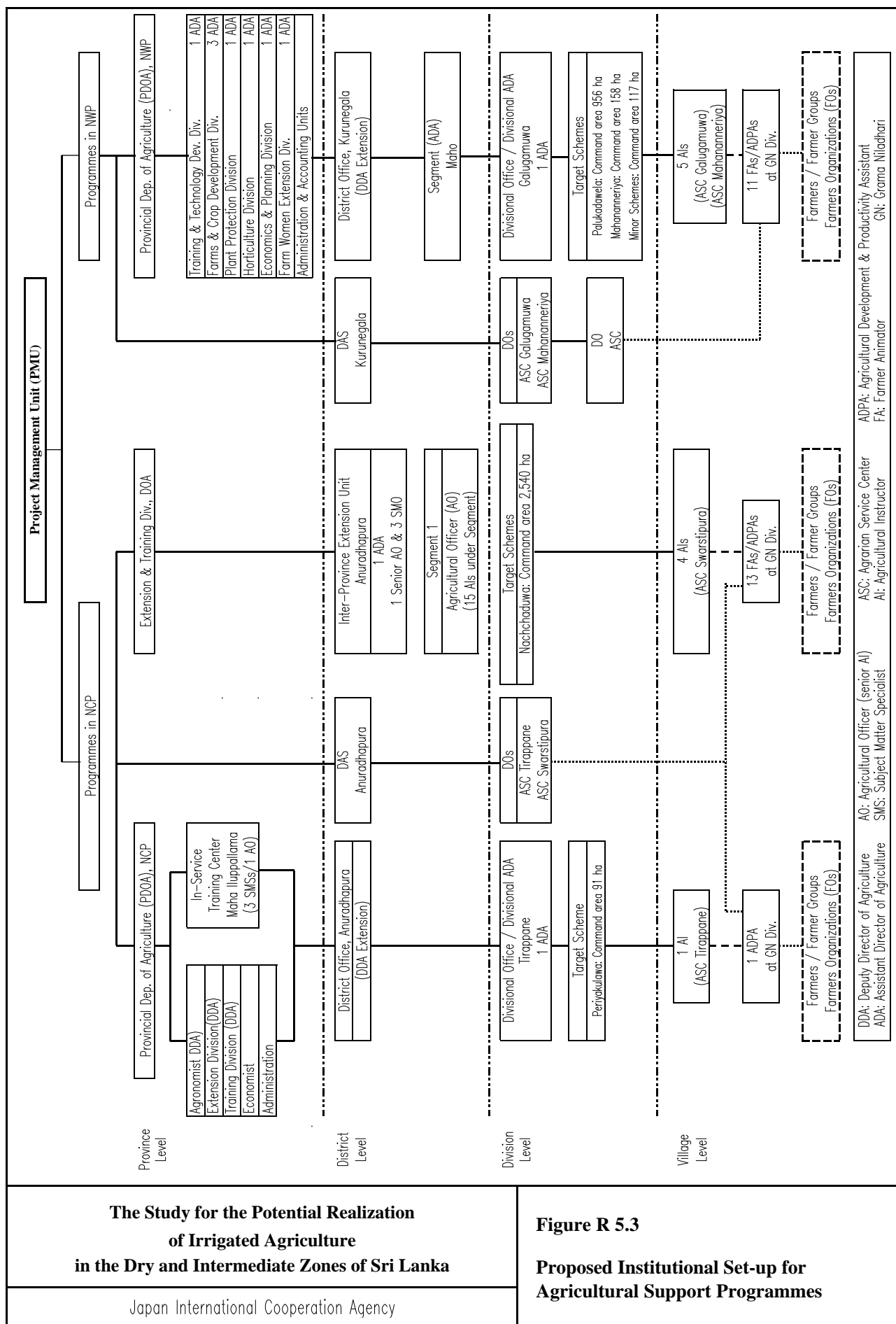












Province Level

District Level

Division Level

Village Level



