

DEMOCRATIC SOCIALIST REPUBLIC
OF SRI LANKA

THE PREPARATORY SURVEY
ON
THE PROJECT
FOR
IMPROVEMENT OF AGRICULTURAL PRODUCTION
AND PRODUCTIVITY IN DRY ZONE AREAS
IN
DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

FINAL REPORT

**VOLUME-II
ATTACHMENT**

OCTOBER 2012

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

**NIPPON KOEI CO., LTD.
KRI INTERNATIONAL CORP.**

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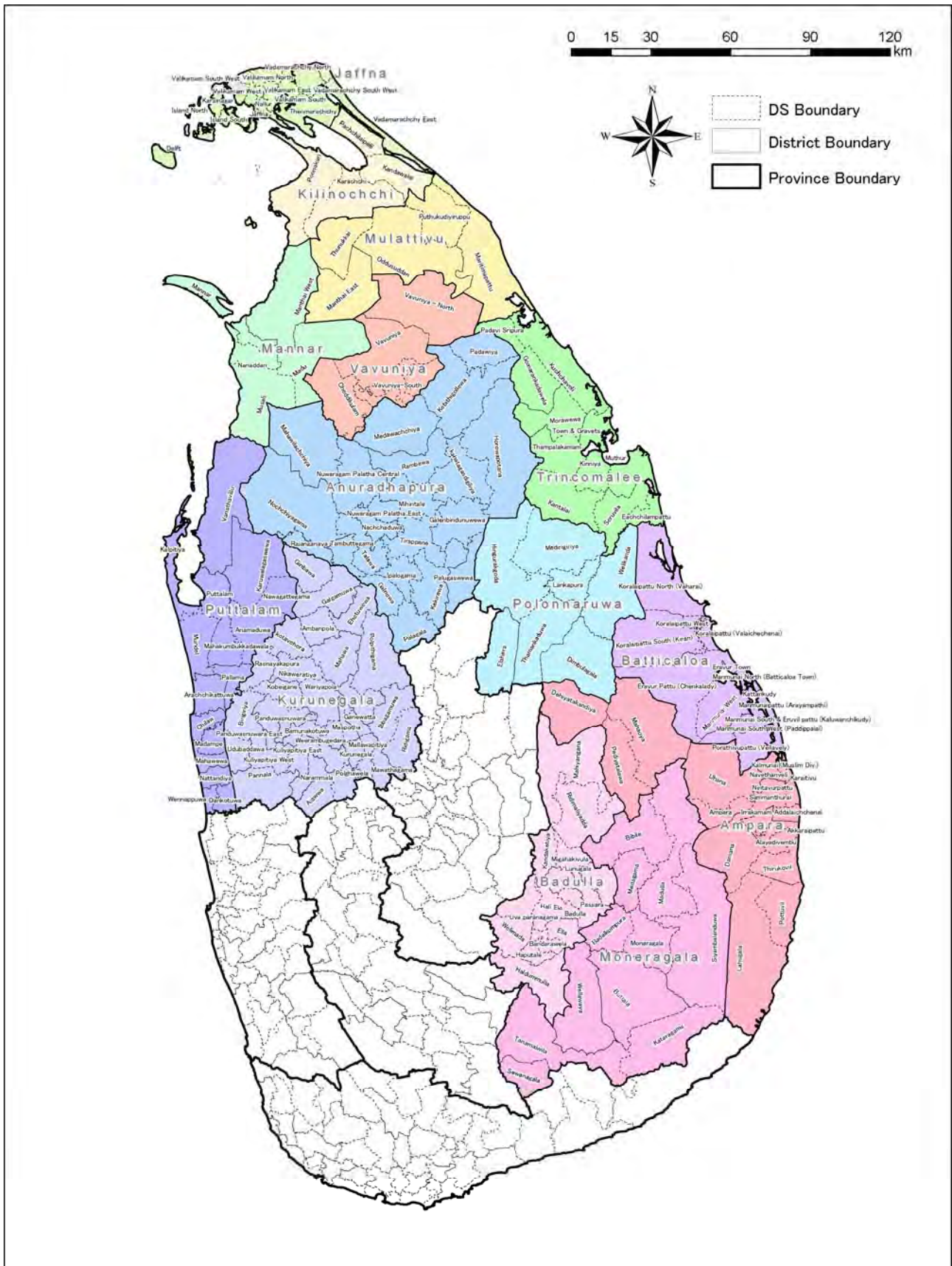


Figure A 3.1 Administration Boundary

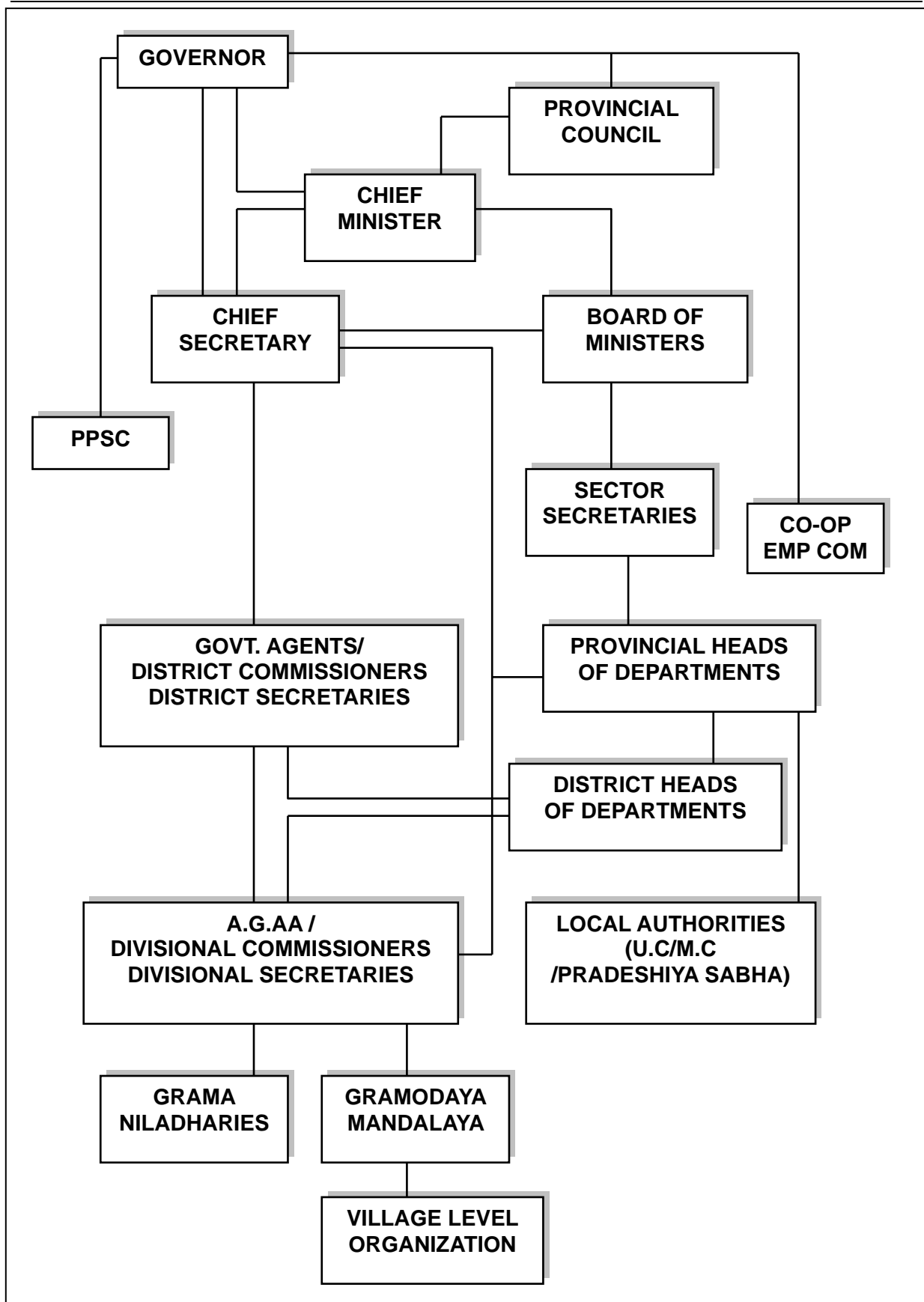


Figure A 3.2 Administrative Structure of Provincial Council

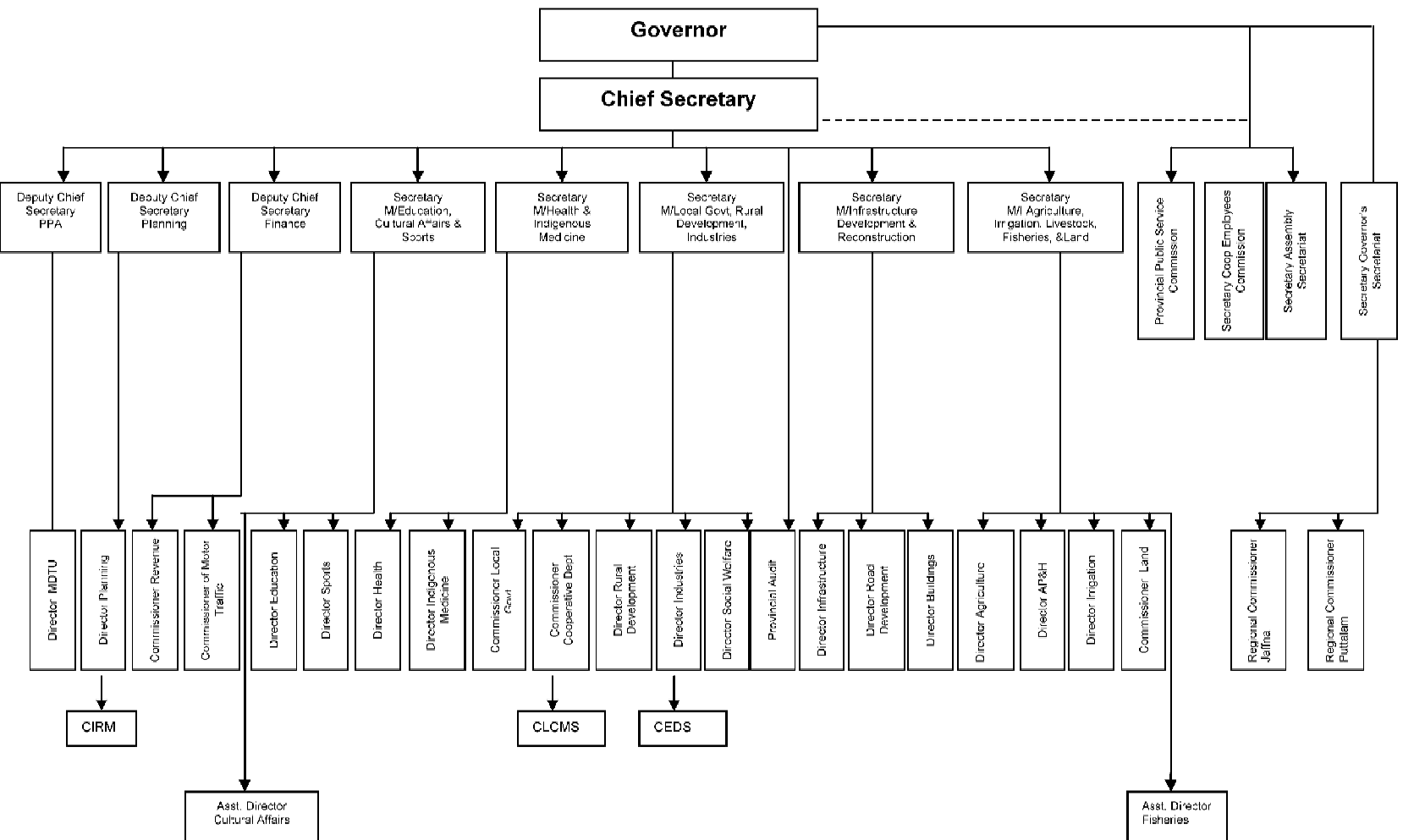
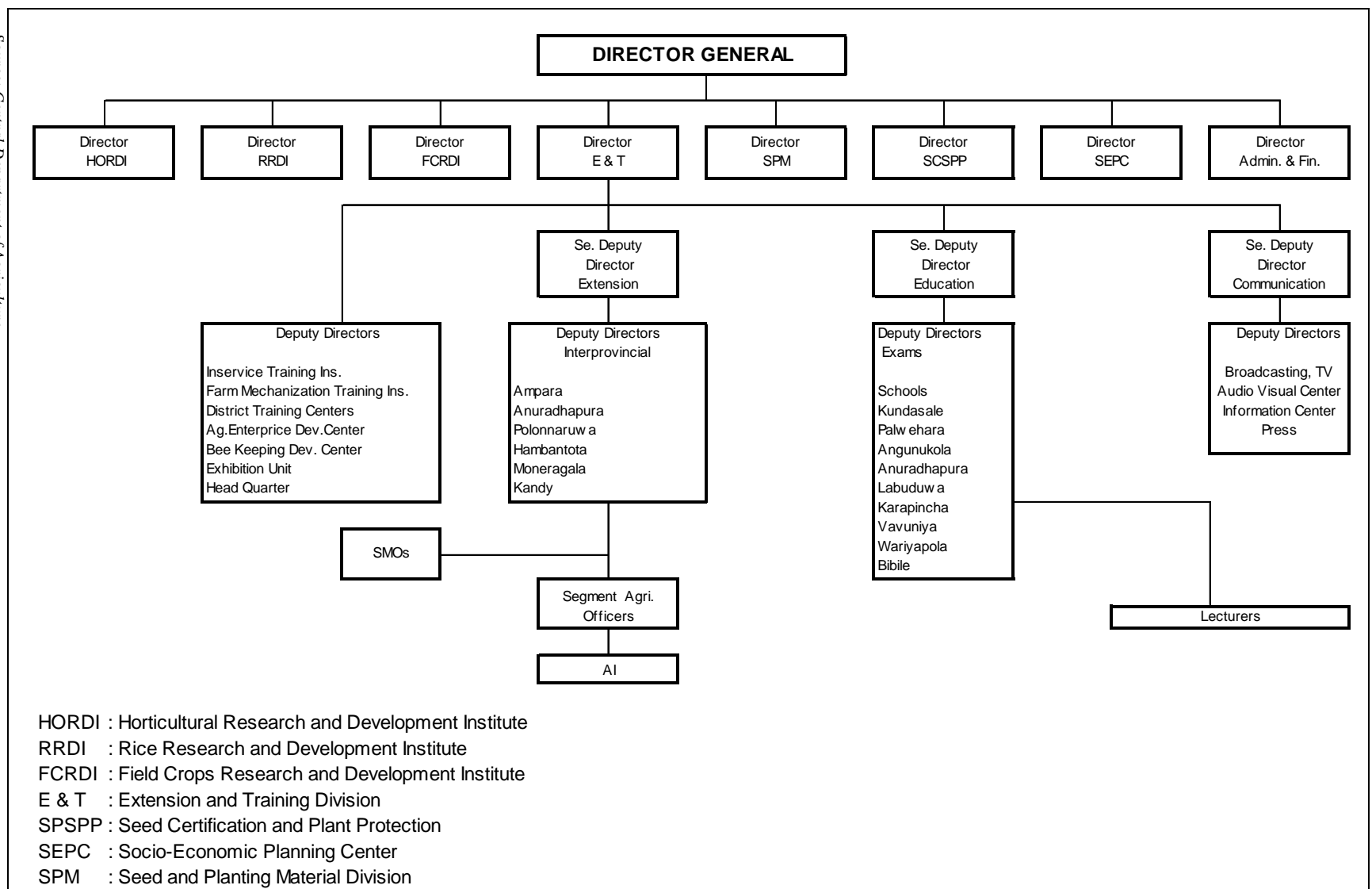


Figure A 3.3 Overall Management Organization Chart, Northern Provincial Council (in the absence of council- an elected body)



Source: Central Department of Agriculture
Figure A.3.4 Organization Structure of Central Department of Agriculture

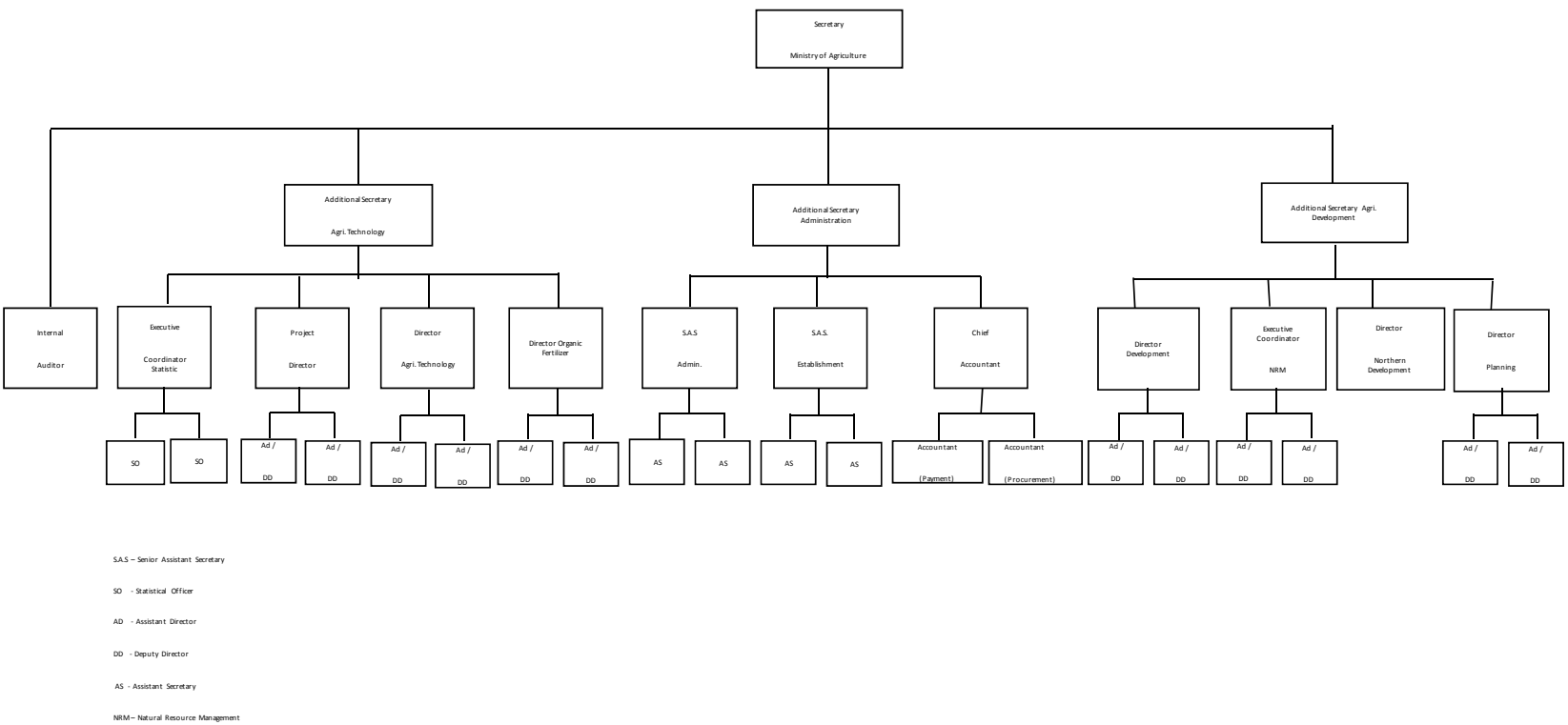
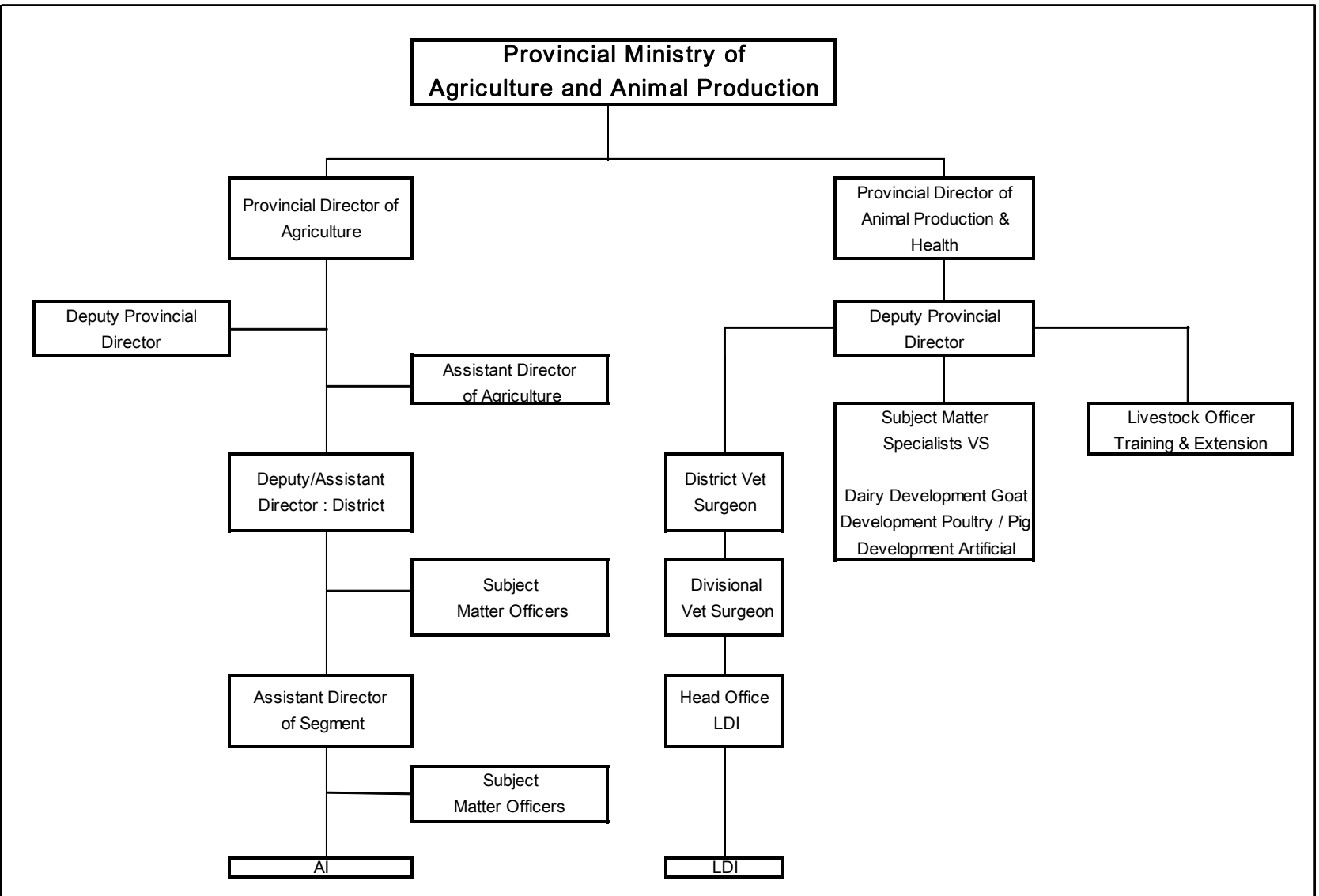


Figure A 3.5 Organization Structure of Ministry of Agriculture



Source: Provincial Department of Agriculture, Animal Production and Health, North Central Province
Figure A 3.6 Organization Structure of Provincial Department of Agriculture and Animal Production & Health

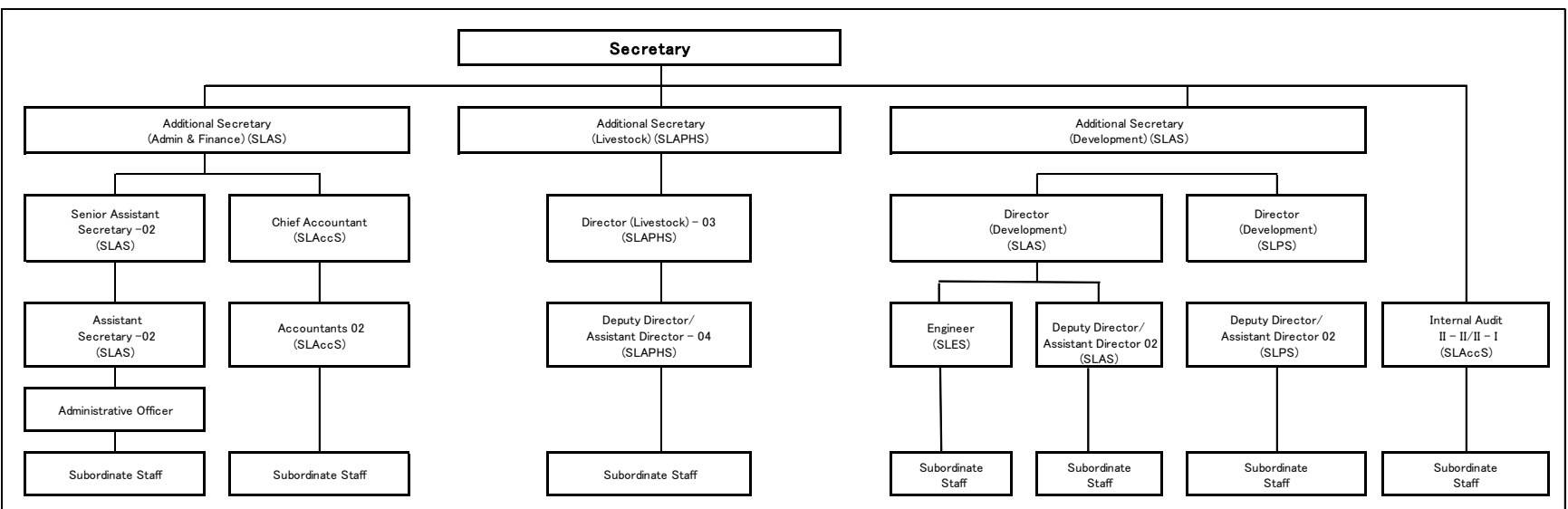


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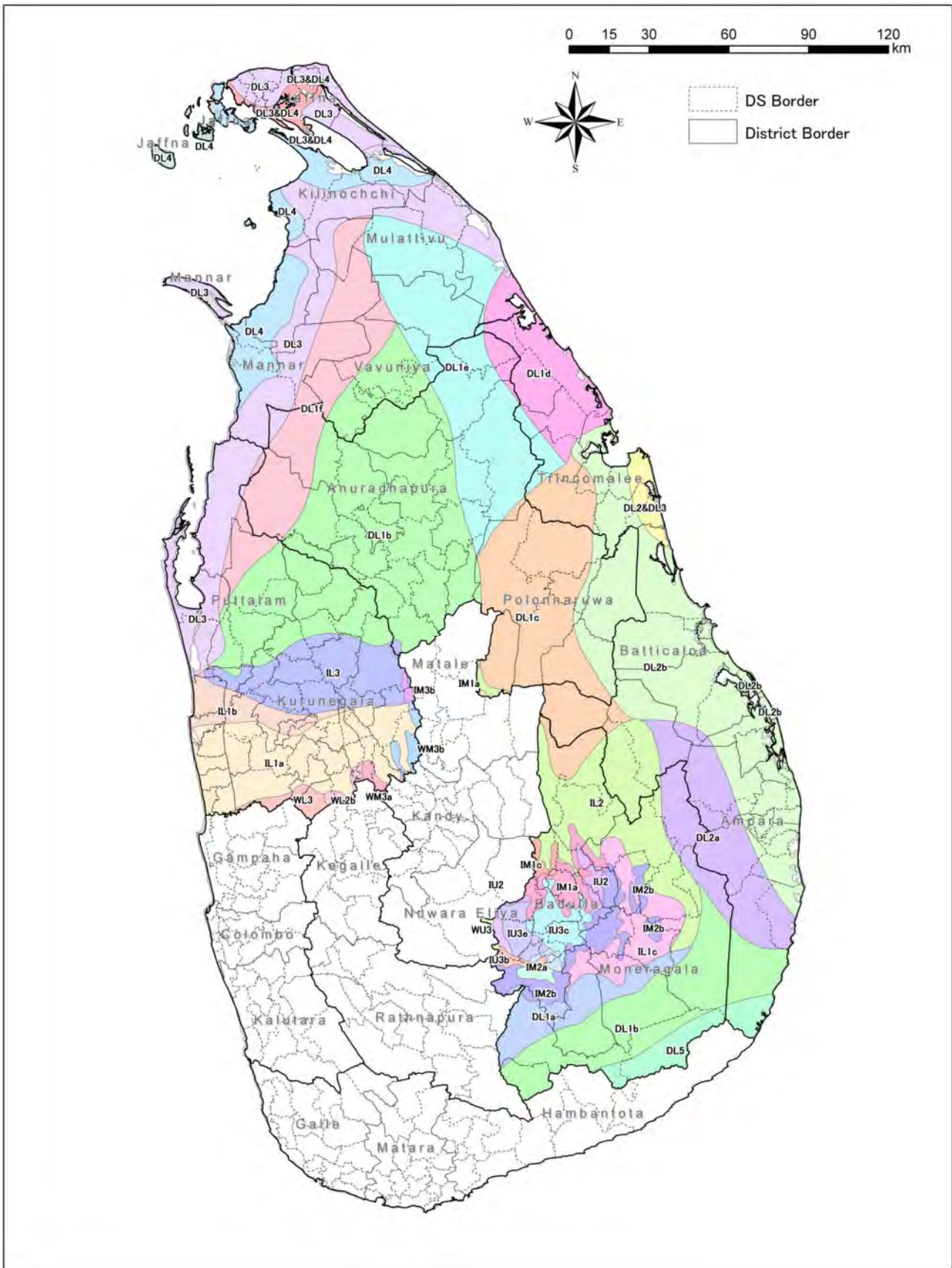


Figure A 3.8 Agro Ecological Zone

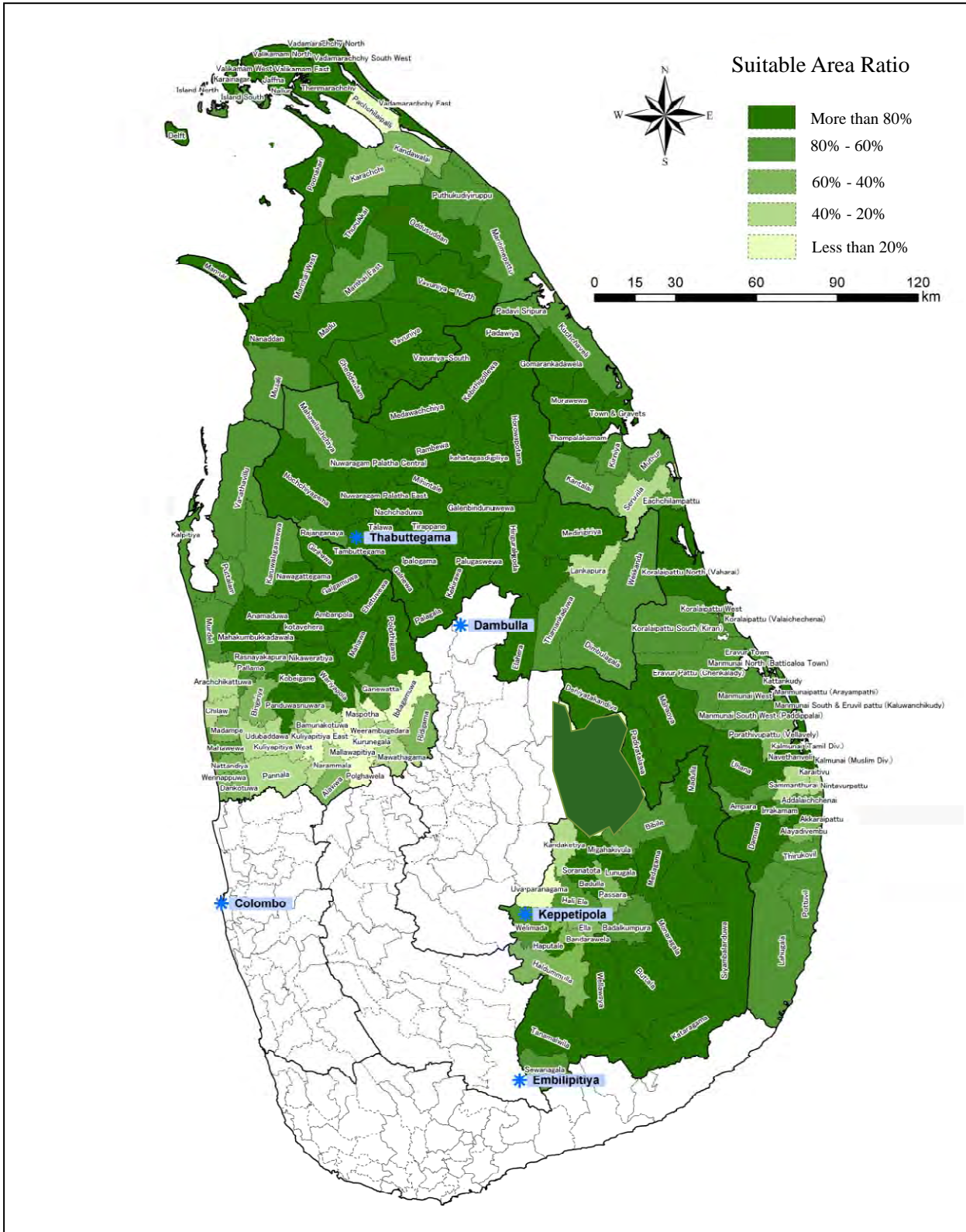
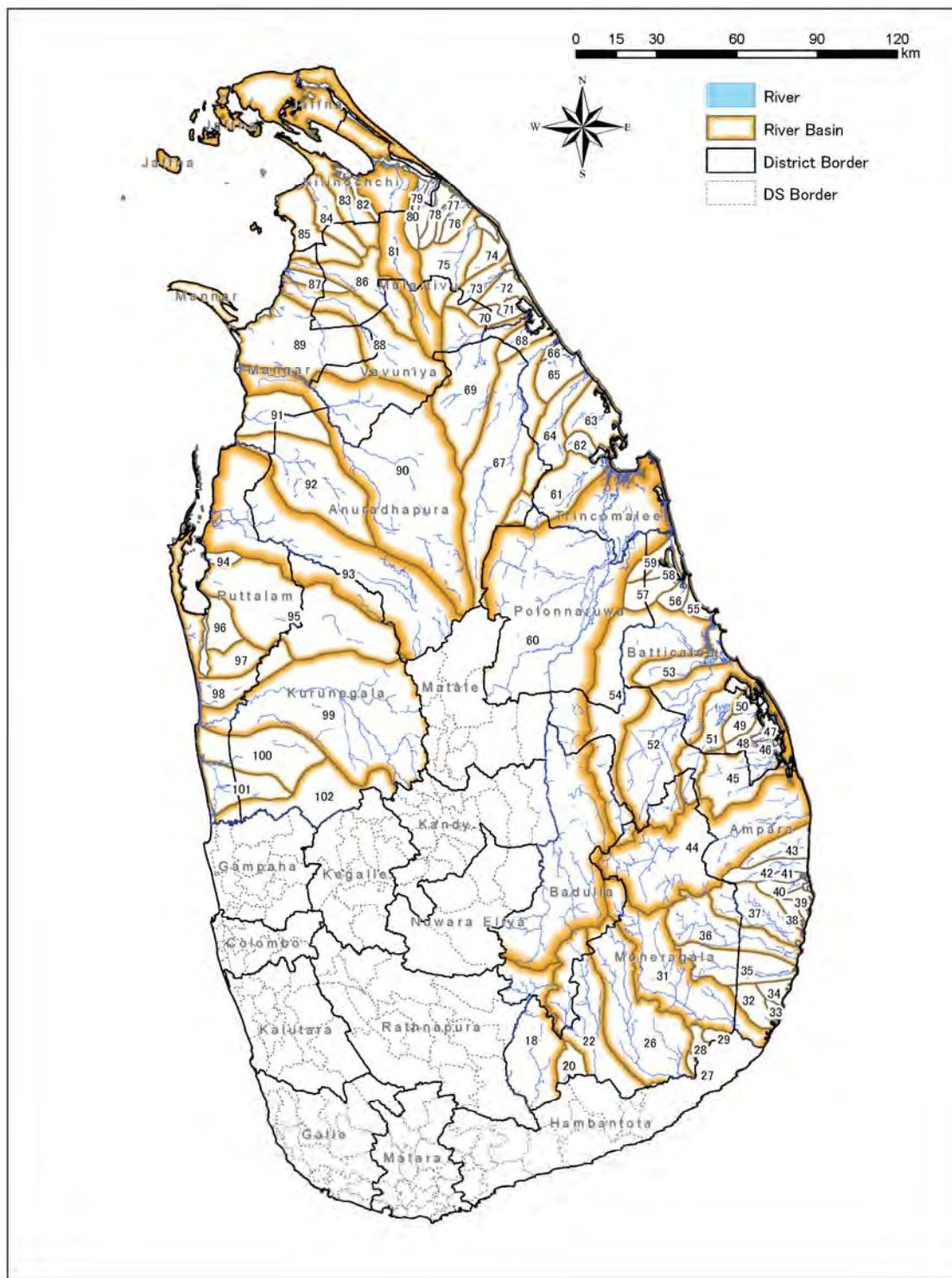
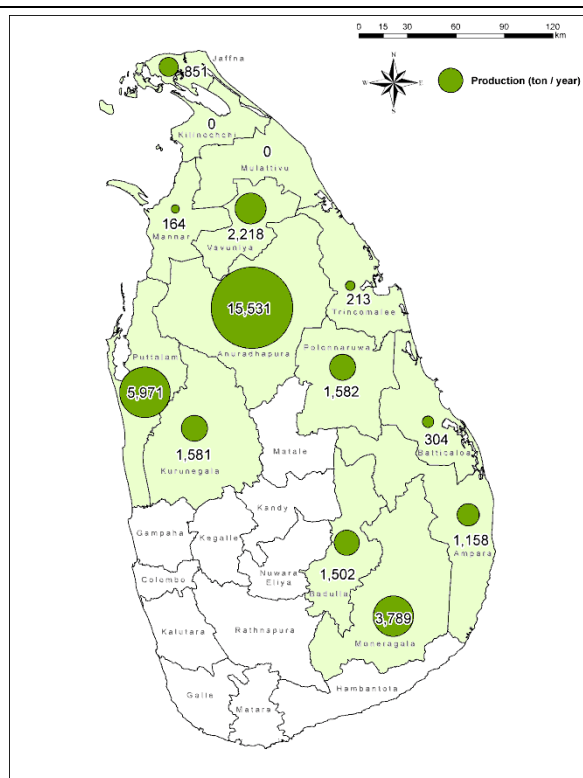


Figure A 3.10 Soil Suitability for OFC and Vegetable Cultivation (DS-wise)

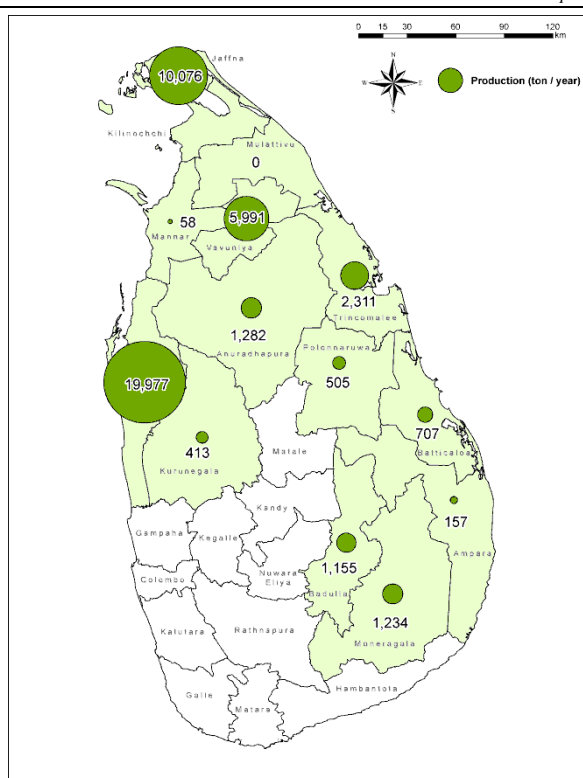


18 Walawe Ganga	37 Karanda Oya	52 Mundeni Aru	67 Yan Oya	82 Kalwalappu Aru	97 Kalagamuna Oya
20 Malala Oya	38 Semana Aru	53 Miyangolla Ela	68 Mee Oya	83 Akkarayan Aru	98 Rathambala Oya
22 Kirindi Oya	39 Tandadi Aru	54 Maduru Oya	69 Ma Oya	84 Mandakal Aru	99 Deduru Oya
23 Bambawe Ara	40 Kangikadichi Aru	55 Puliyapota Aru	70 Churiyan Aru	85 Pallavarayan Kaddu	100 Karambalan Oya
24 Mahasilawa Oya	41 Rufus Kulam Aru	56 Kirimechchi Odai	71 Chavar Aru	86 Pali Aru	101 Ratmal Oya
26 Menik Ganga	42 Pannel Oya	57 Bodigolla Aru	72 Palladi Aru	87 Chappi Aru	102 Maha Oya
27 Katupila Ara	43 Ambalam Oya	58 Mandan Aru	73 Manal Aru	88 Parangi Aru	
28 Kurundu Ara	44 Gal Oya	59 Makarachchi Aru	74 Kodalikalu Aru	89 Nay Aru	
29 Nabadagas Ara	45 Andella Oya	60 Mahaweli Ganga	75 Per Aru	90 Aruvi Aru	
31 Kumbukkan Oya	46 Tumpen Keni	61 Kantale basin	76 Pali Aru	91 Kal Aru	
32 Bagura Oya	47 Namakada Aru	62 Palampotta Ara	77 Maruthapillay Aru	92 Moderagam Aru	
33 Girikula Ara	48 Mandipattu Aru	63 Panna Oya	78 Theravil Aru	93 Kala Oya	
34 Helawe Ara	49 Pathantoppu Aru	64 Pankulam Aru	79 Piramenthal Aru	94 Moongil Ara	
35 Wila Oya	50 Vett Aru	65 Kunchikumban Aru	80 Metheli Aru	95 Mi Oya	
36 Heda Oya	51 Unnichchai	66 Palakutta Aru	81 Kanakarayan Aru	96 Madurankuli Aru	

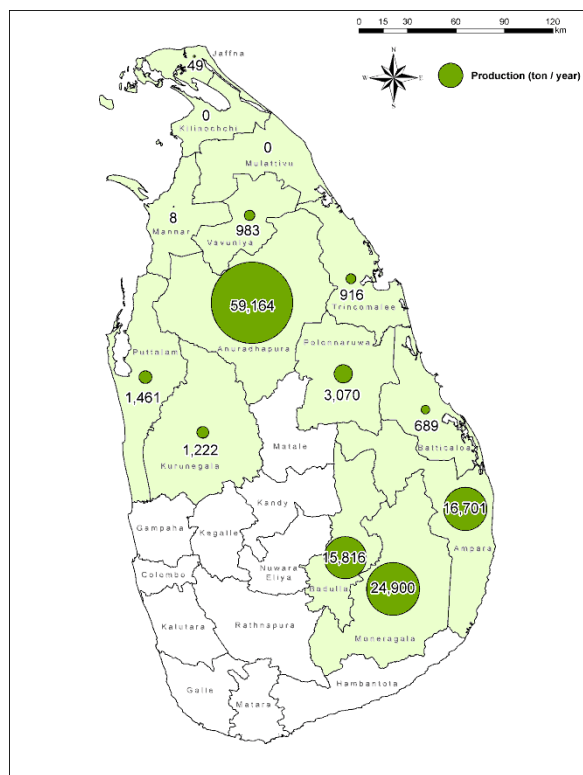
Figure A 3.11 River Basin



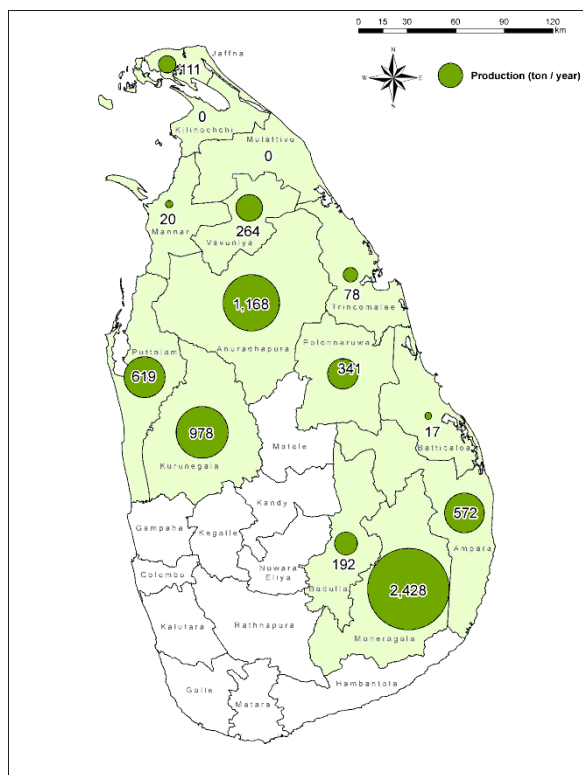
Chillies (green)



Red onion



Maize

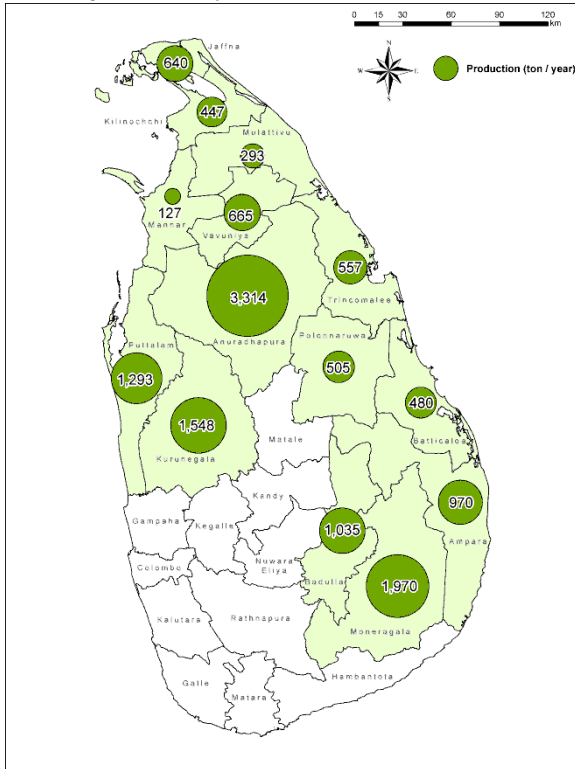


Green gram

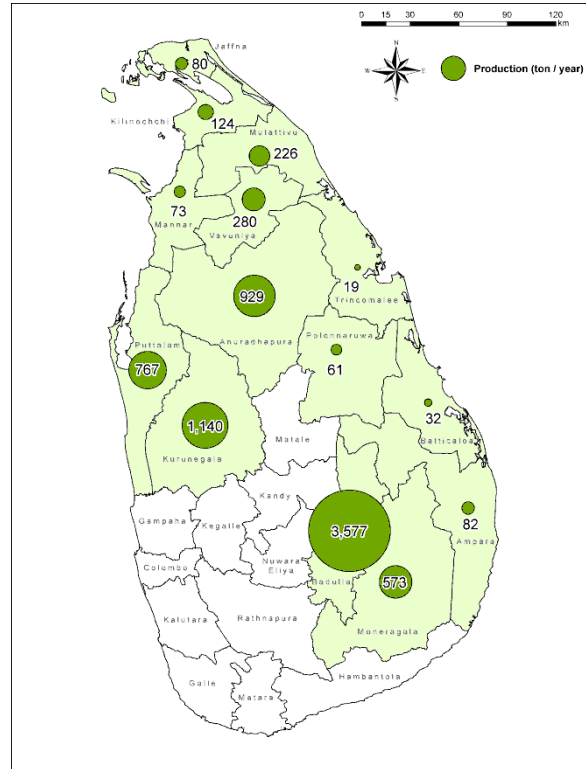
Source: Agricultural Profile 2006 HARTI

Figure A 3.12 Distribution of major OFC production in survey area

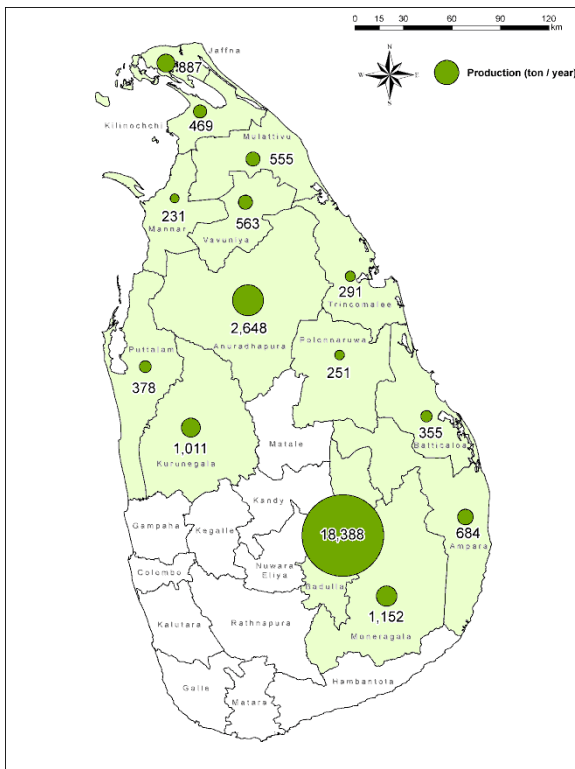
(Source: Agricultural Profile 2006 HARTI)



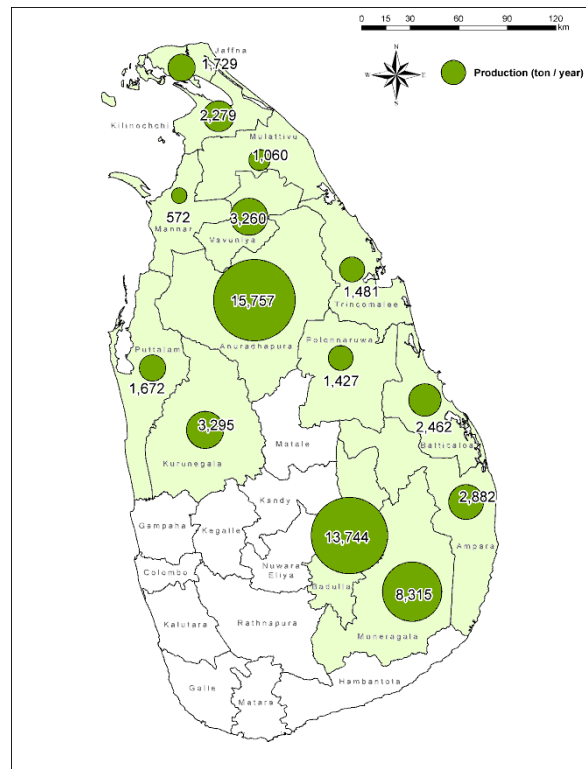
Bitter gourd



Capsicum

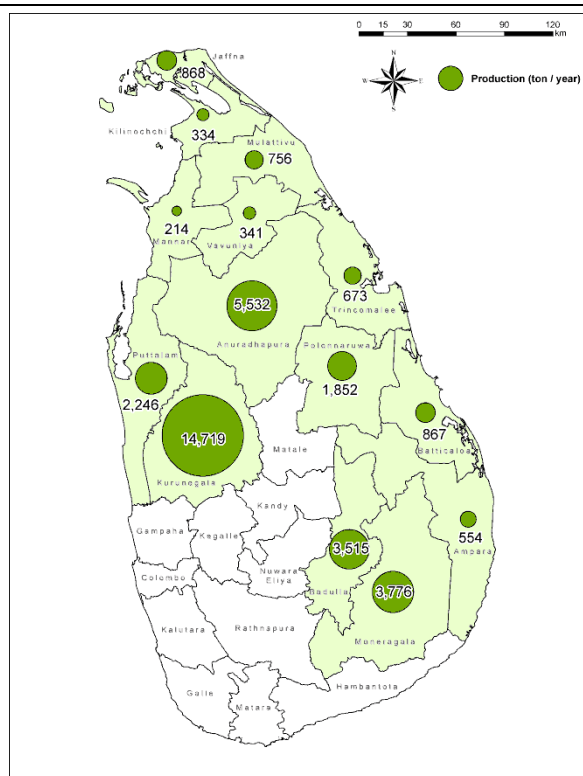


Tomato

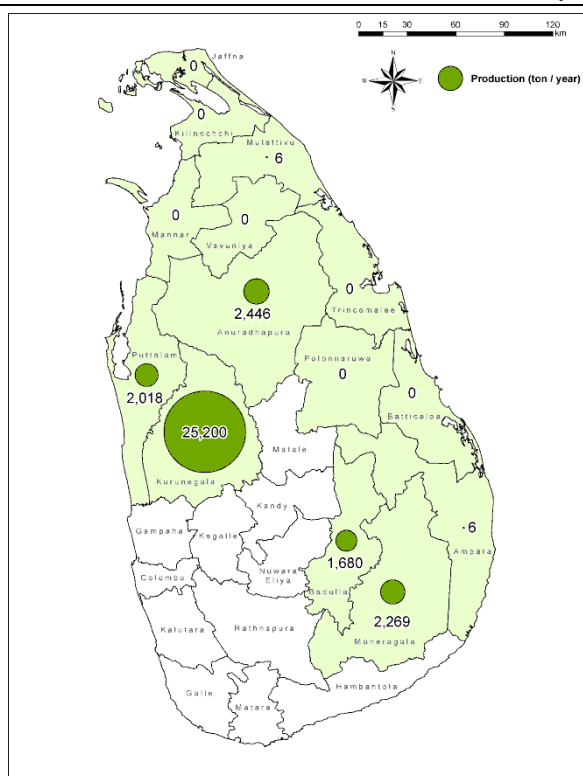


Brinjal

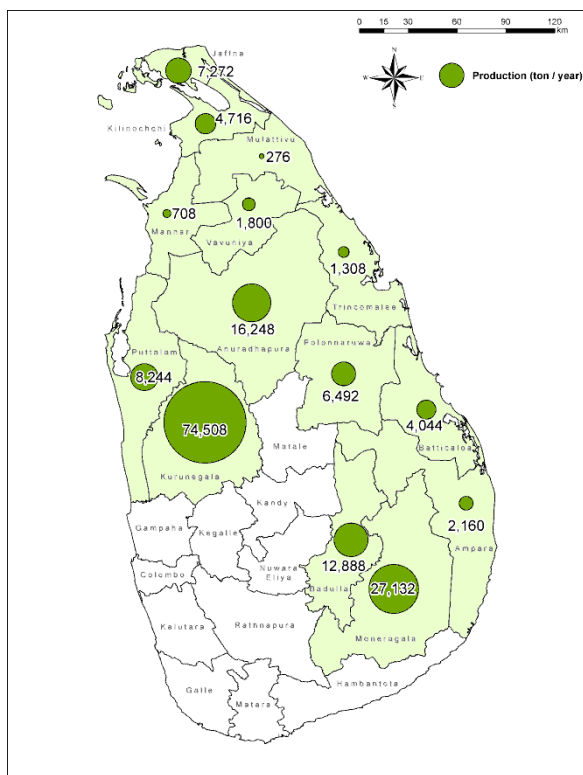
Figure A 3.13 Distribution of major vegetable production in survey area.



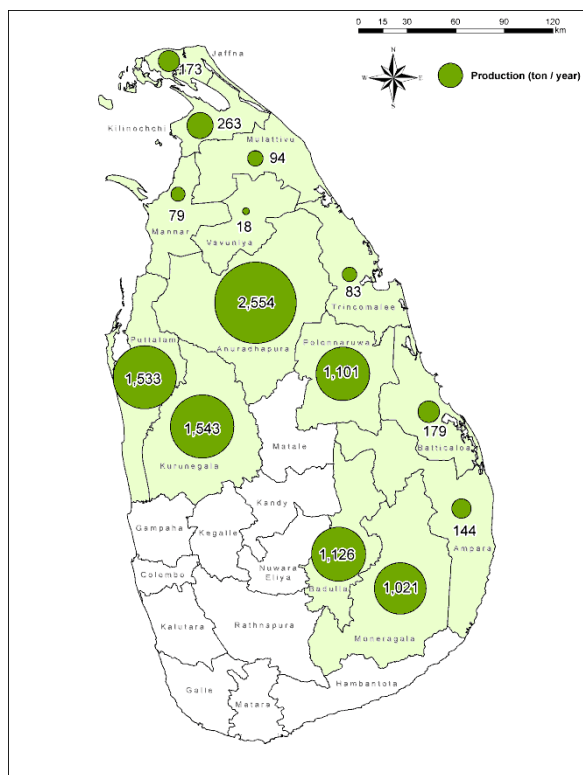
Mango



Pineapple



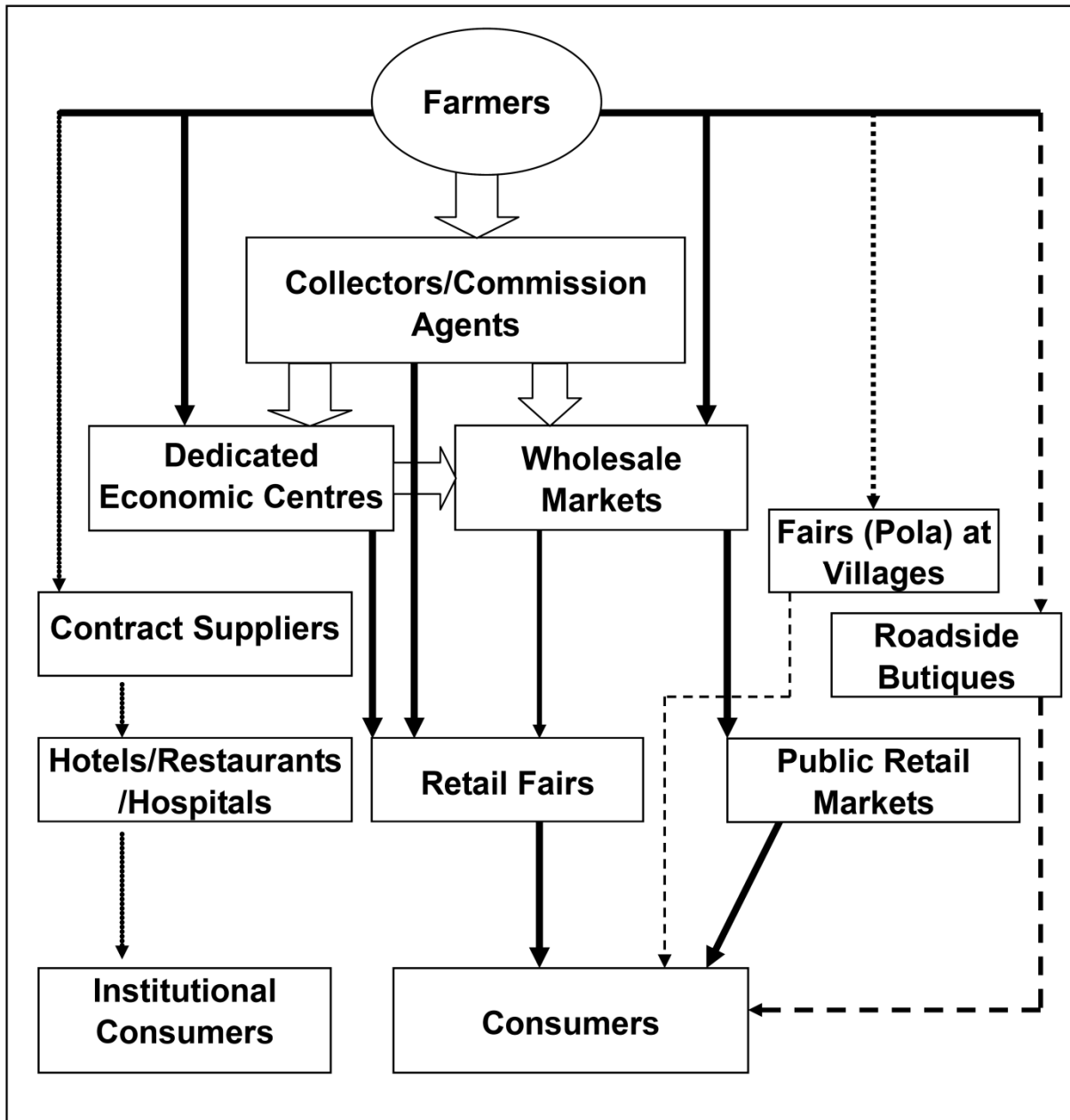
Banana



Papaw

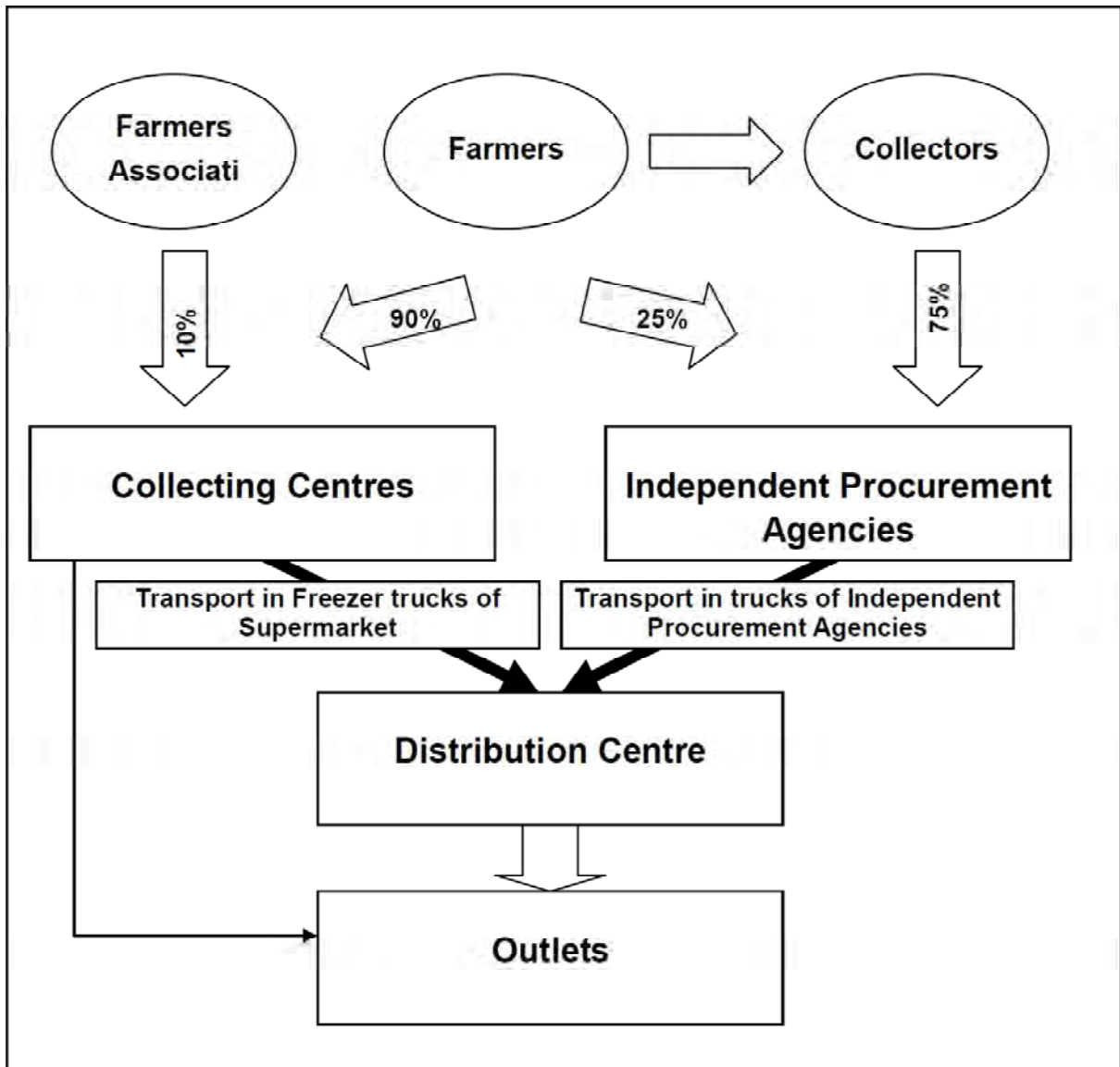
Source: Agricultural Profile 2006 HARTI

Figure A 3.14 Distribution of major fruit production in survey area.



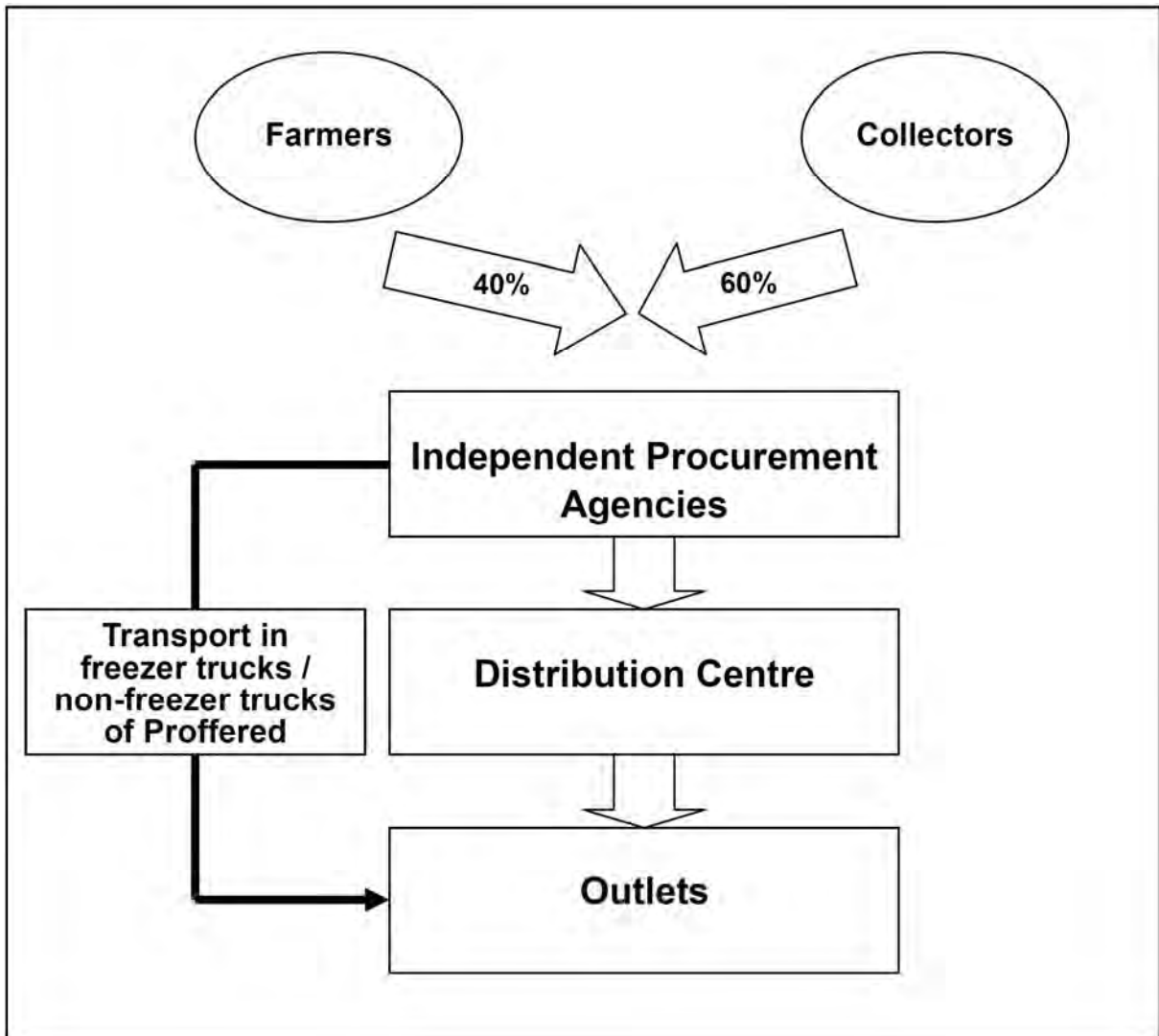
Source: "Marketing of Vegetables through Supermarkets: Implication of Procurement Practices for Farmers" Ruvini Vidanapathirana et al, HARTI, 2011

Figure A 3.15 Traditional Vegetable Supply Chains in Sri Lanka



Source: "Marketing of Vegetables through Supermarkets: Implication of Procurement Practices for Farmers" Ruvini Vidanapathirana et al, HARTI, 2011

Figure A 3.16 Procurement and Distribution of Vegetable by Leading Supermarkets in Sri Lanka



Source: "Marketing of Vegetables through Supermarkets: Implication of Procurement Practices for Farmers" Ruvini Vidanapathirana et al, HARTI, 2011

Figure A 3.17 Procurement and Distribution of Vegetable by Leading Supermarkets in Sri Lanka

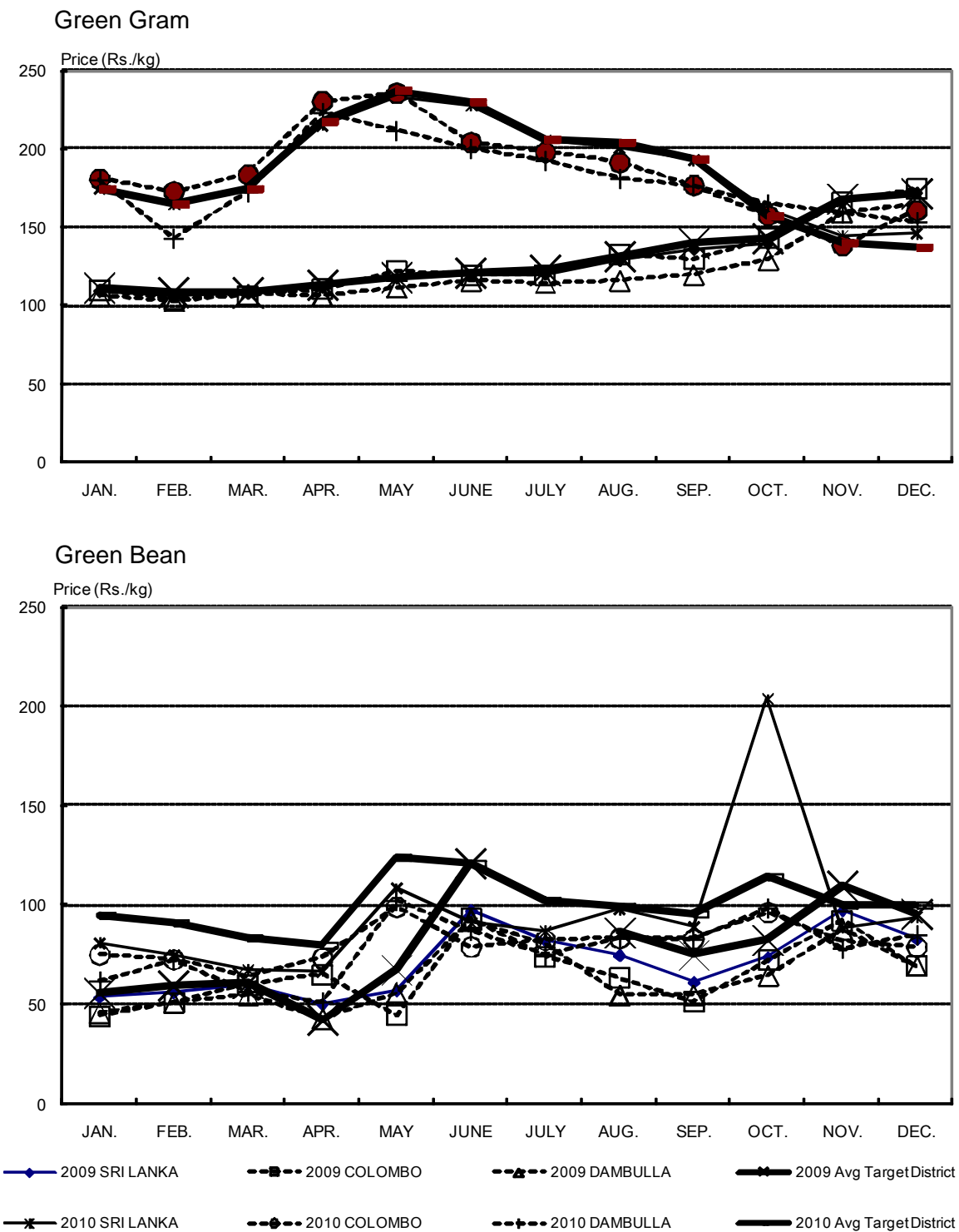
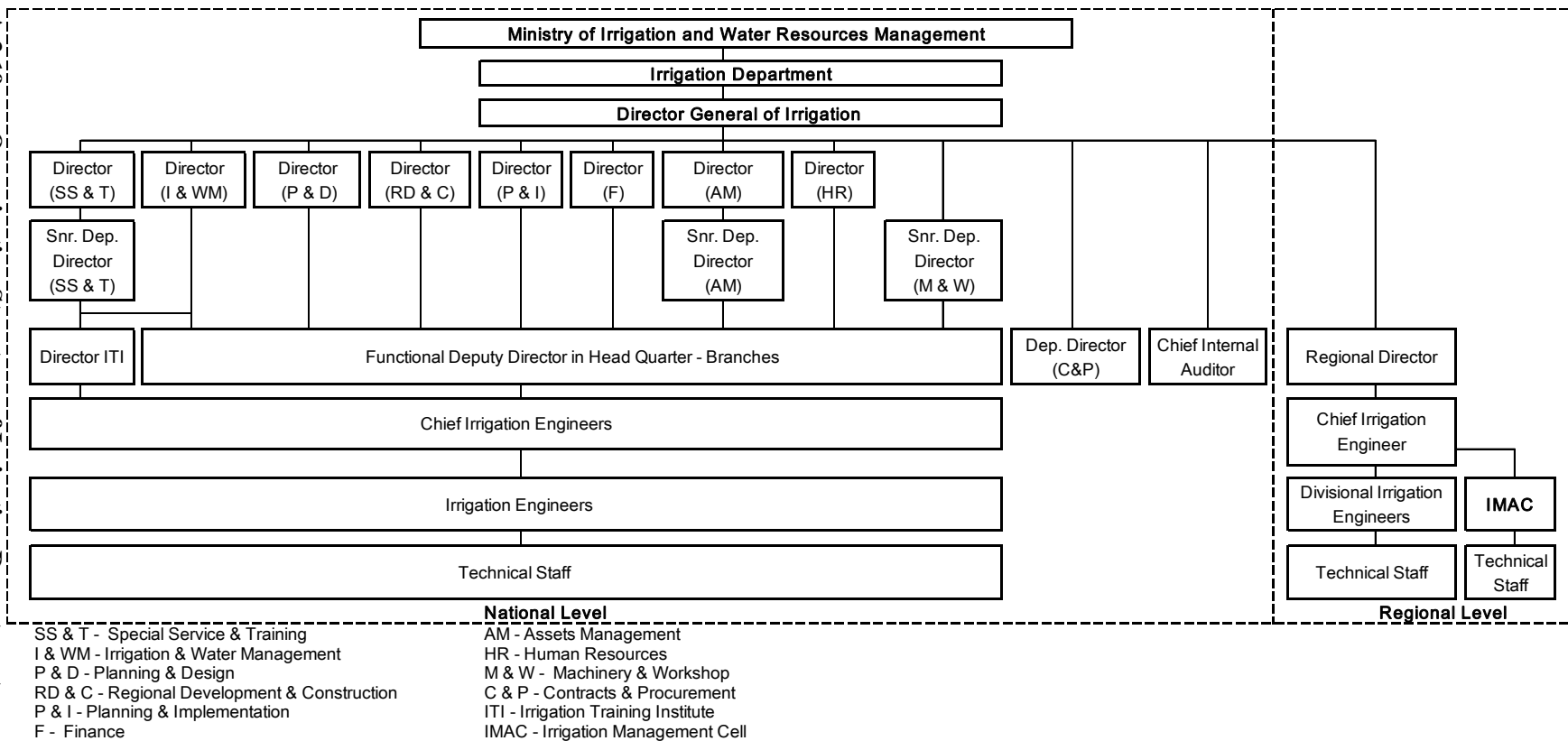


Figure A 3.18 Wholesale Price of OFC at Major Market

Figure A 3.19 Organization Structure of Irrigation Department



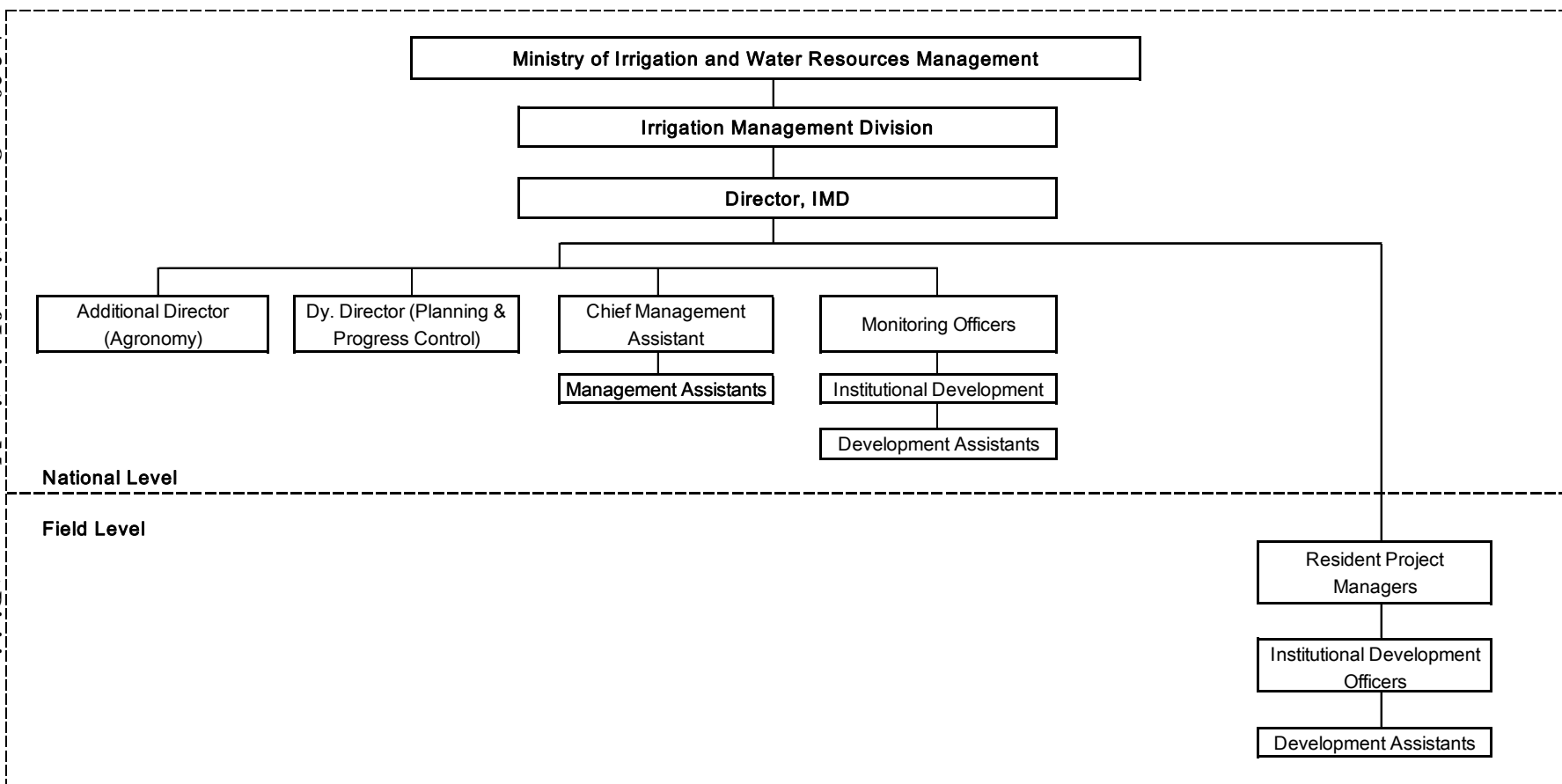
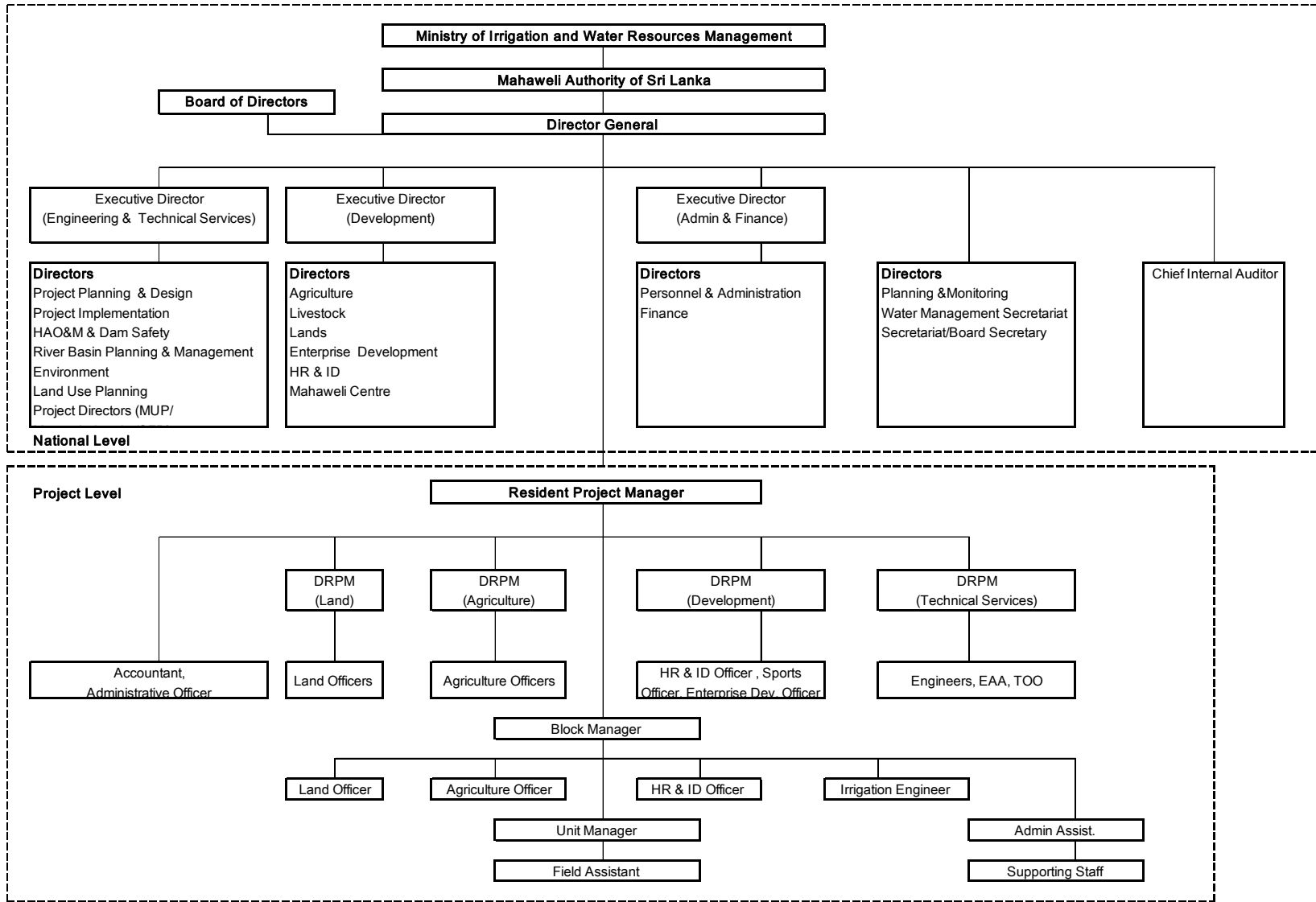


Figure A 3.20 Organization of Irrigation Management Division

Figure A 3.21 Organization Structure of Mahaweli Authority of Sri Lanka



HAO&M - Head Works Administration, Operation & Maintenance
 HRID - Human Resources & Institutional Development

MUP - Mahaweli Upgrading Project
 SFD - Saudi Fund

EAA - Engineering Assistants
 TOO - Technical Officers

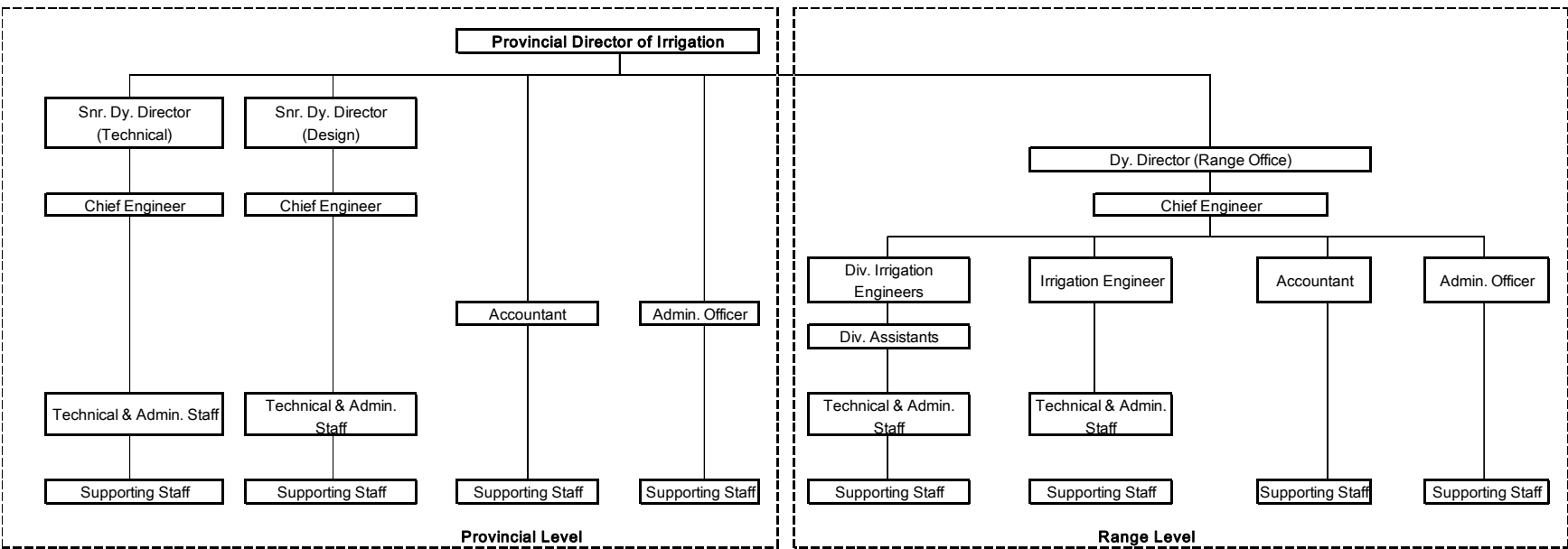


Figure A 3.22

Organization Structure of Provincial Irrigation Department

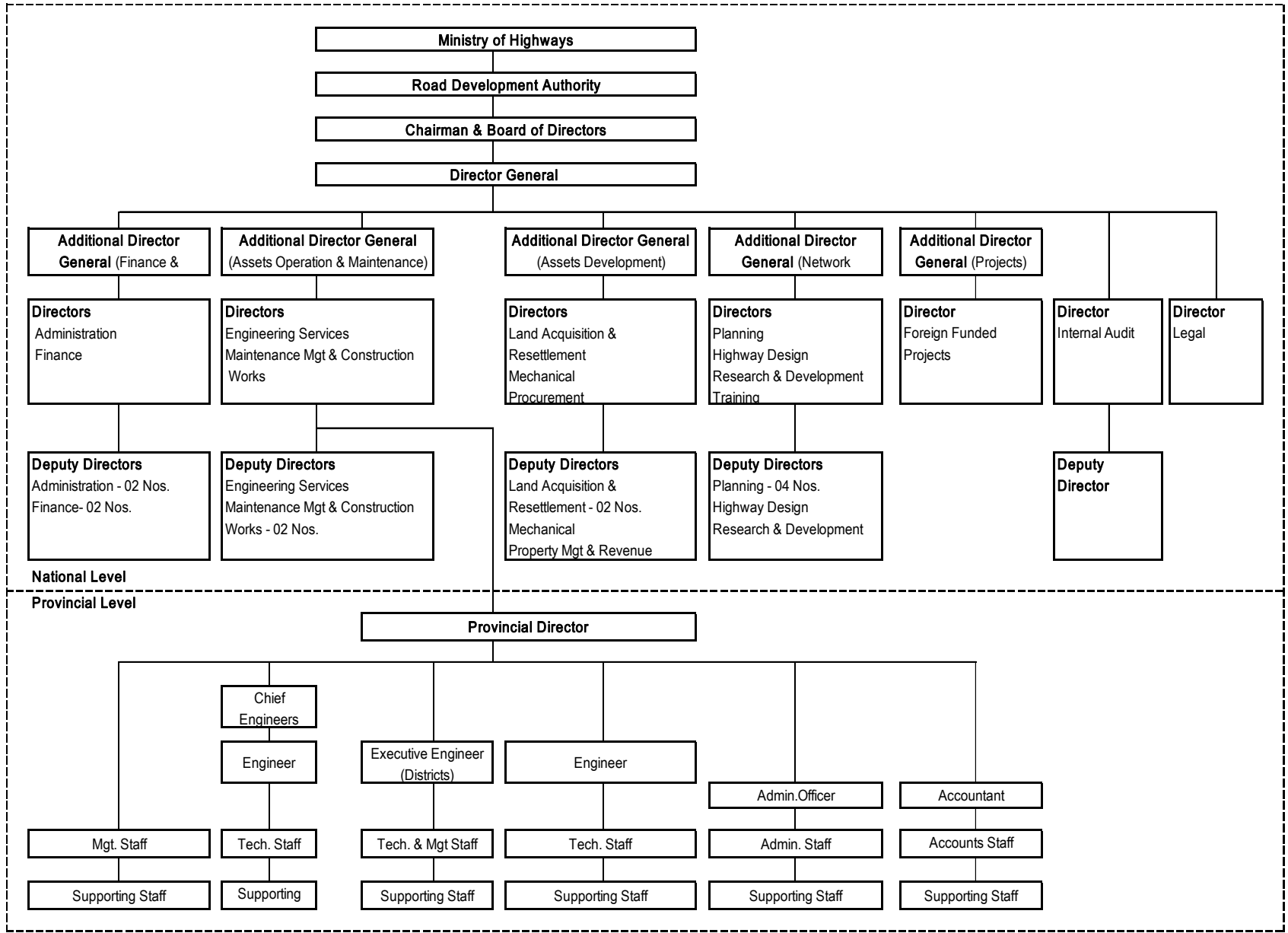


Figure A 3.23 Organization Structure of Road Development Authority

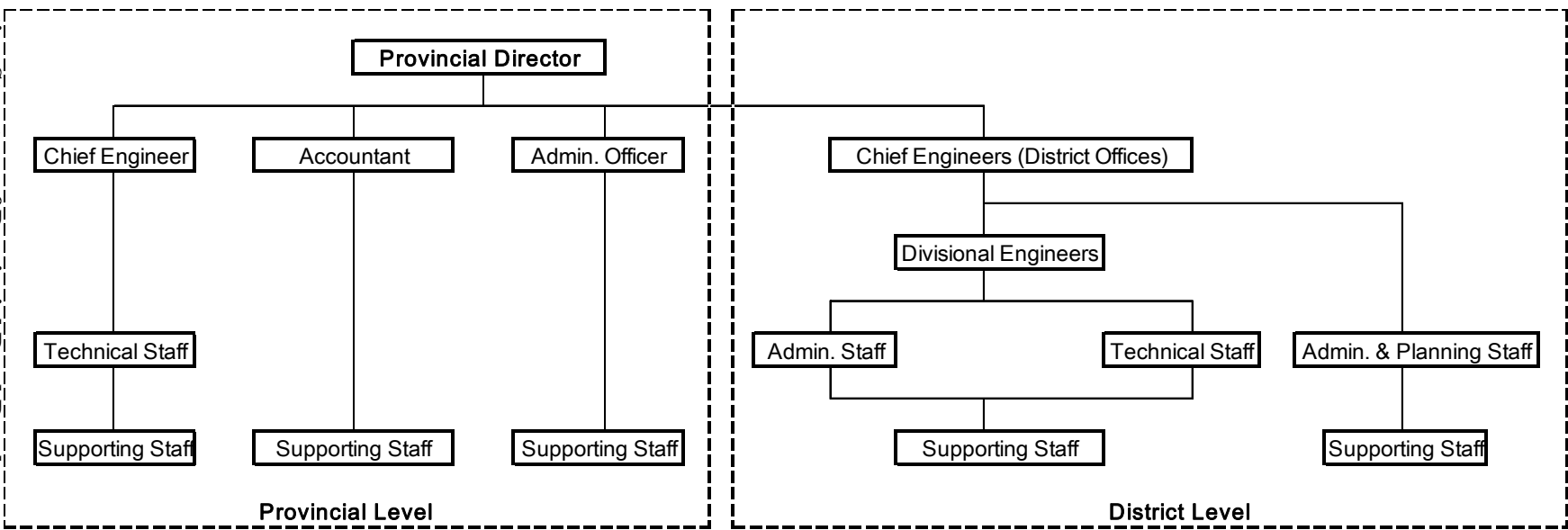
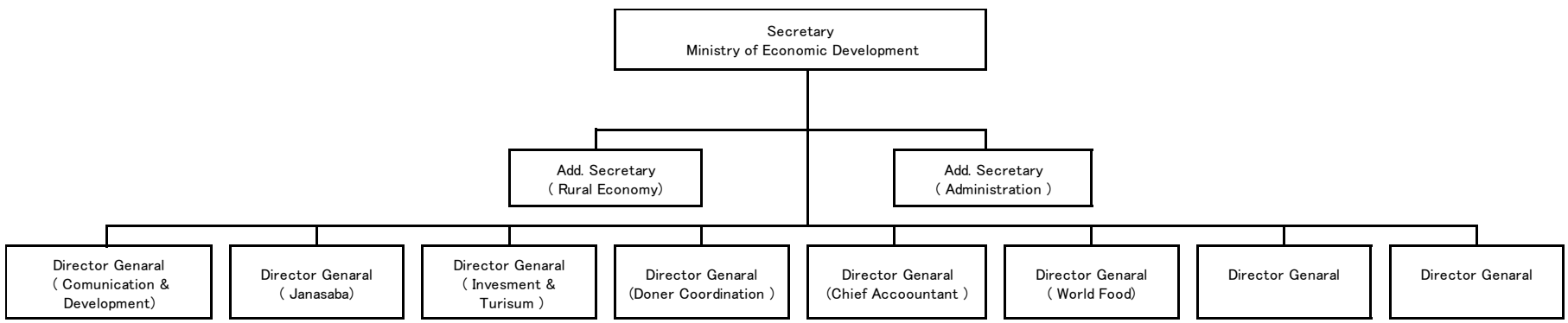
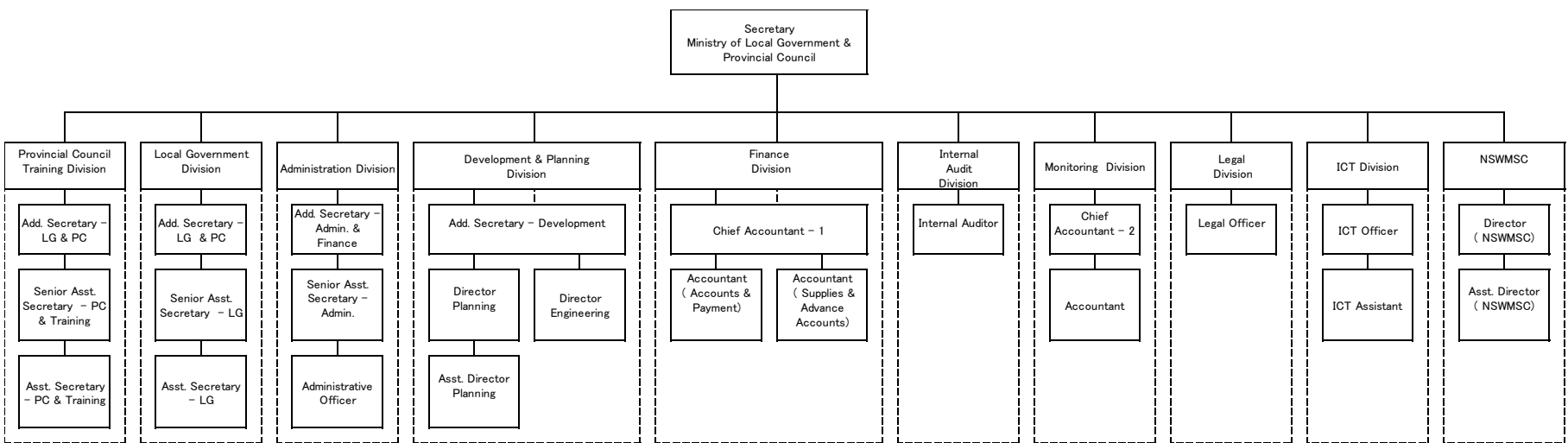


Figure A 3.24 Organization Structure of Provincial Road Development Department



Institution Under the Ministry				
Invest in Sri Lanka	Tourism	Regional Development	Rural Development	Empowering People
Board of Invesment of Sri Lanka	Sri Lanka Convention Bureau Sri Lanka Tourism Development Authority Sri Lanka tuarism Promotion Bureau Sri Lanak Institute of Tourism & Hotel Management	Surthern Development Authority Udarata Development Authority Department of upcountry Peasantry Rehabilitation	Janasaba Gamanaguma	Department of Commissioner General of Smurdi

Figure A 3.25 Organization Structure of Ministry of Economic Development



LG - Local Government
 PC - Provincial Council
 ICT - Information & Communication Technology
 NSWMSC - National Solid Waste Management Support Center

Figure A 3.26 Organization Structure of Ministry of Local Government & Provincial Council

Figure A 3.27 Structure of Government Agencies and Officials related to FOs and CBO

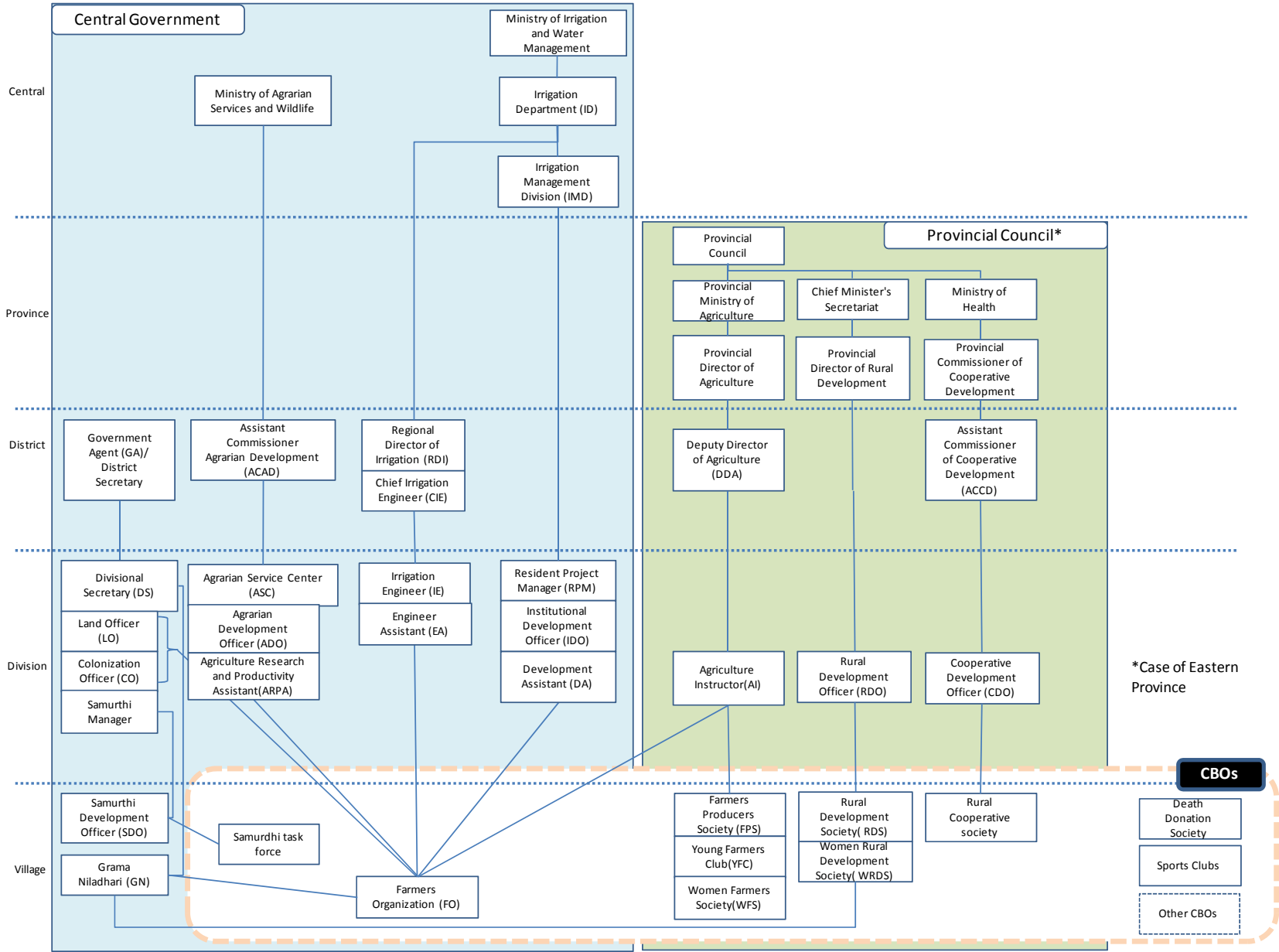
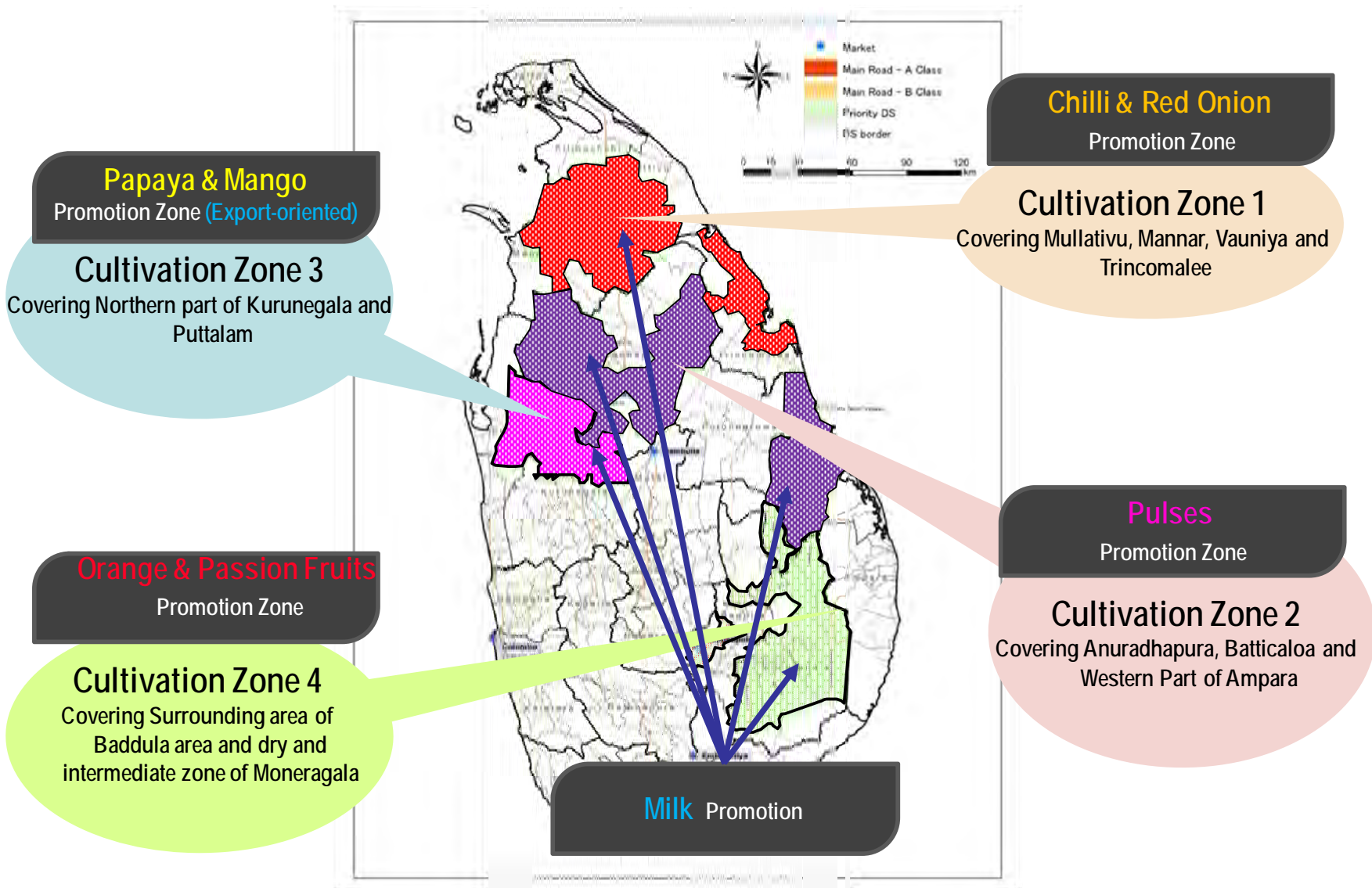


Figure A 4.1 Location Map of Cultivation Zone in Potential Area



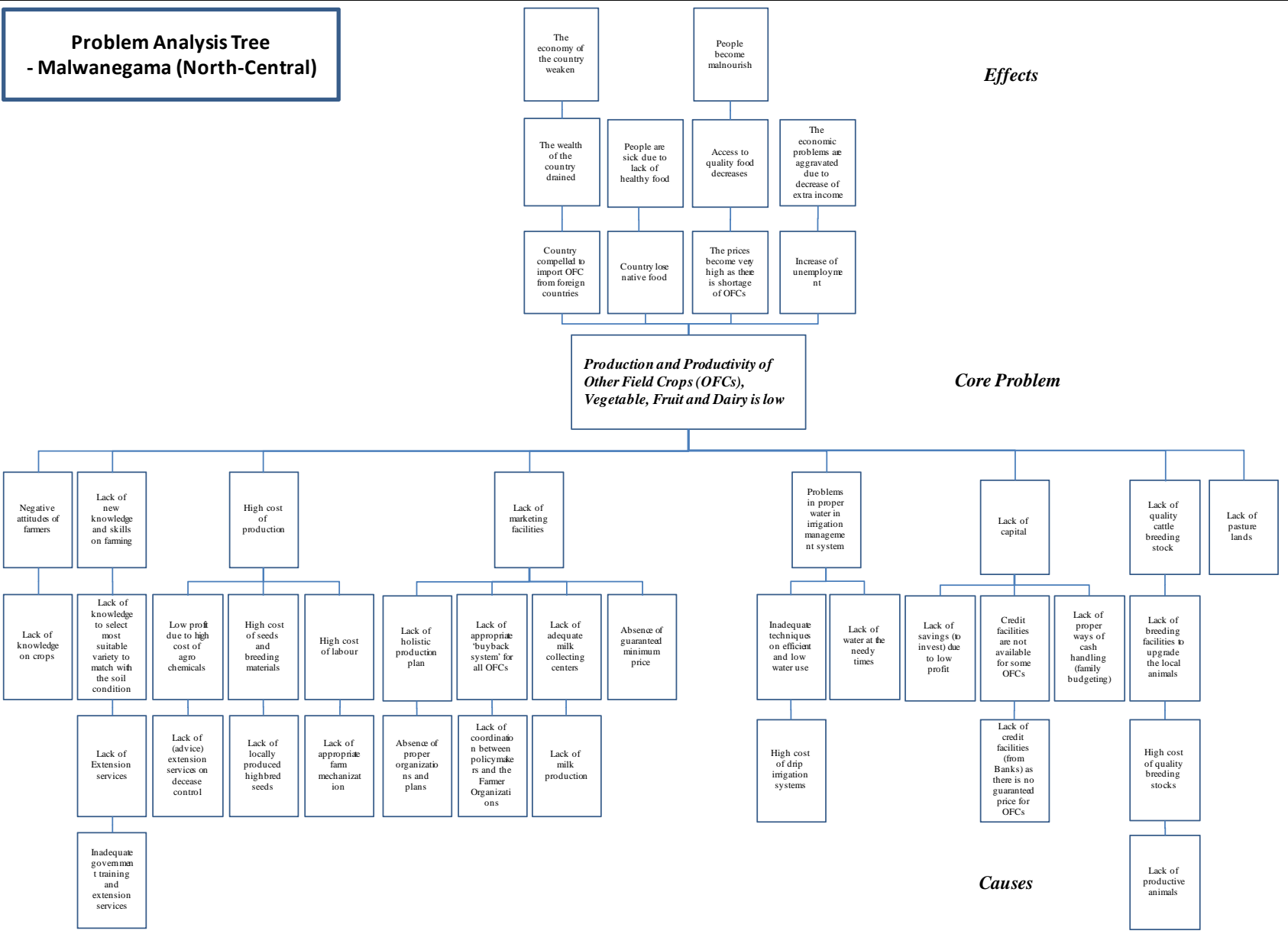


Figure A 4.2 Problem Tree Malwanegama (North-Central)

**Objective Analysis Tree
- Malwanagama (North-Central)**

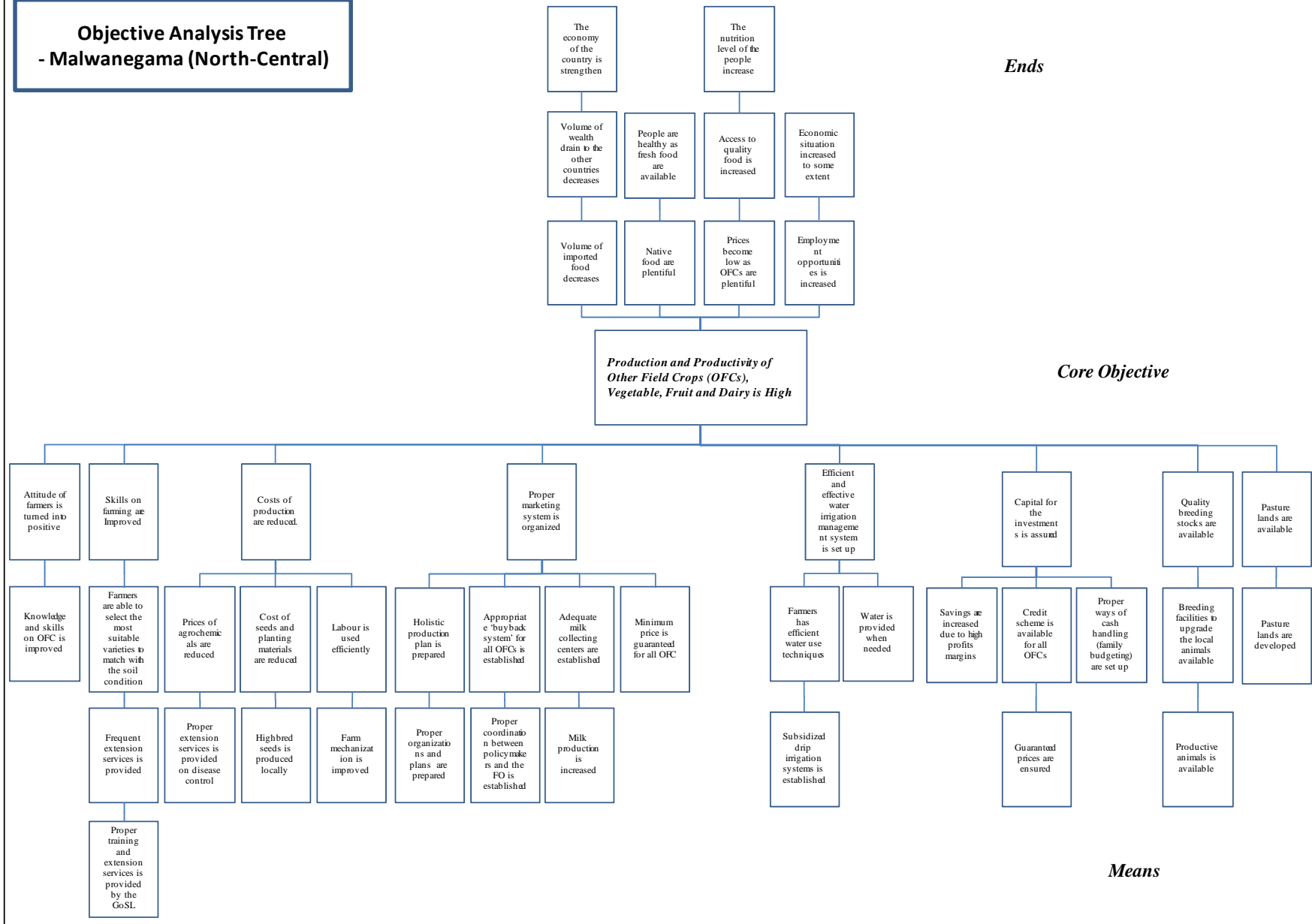


Figure A 4.3 Objective Tree Malwanagama (North-Central)

**Problem Analysis Tree
- Thiriyay (Eastern)**

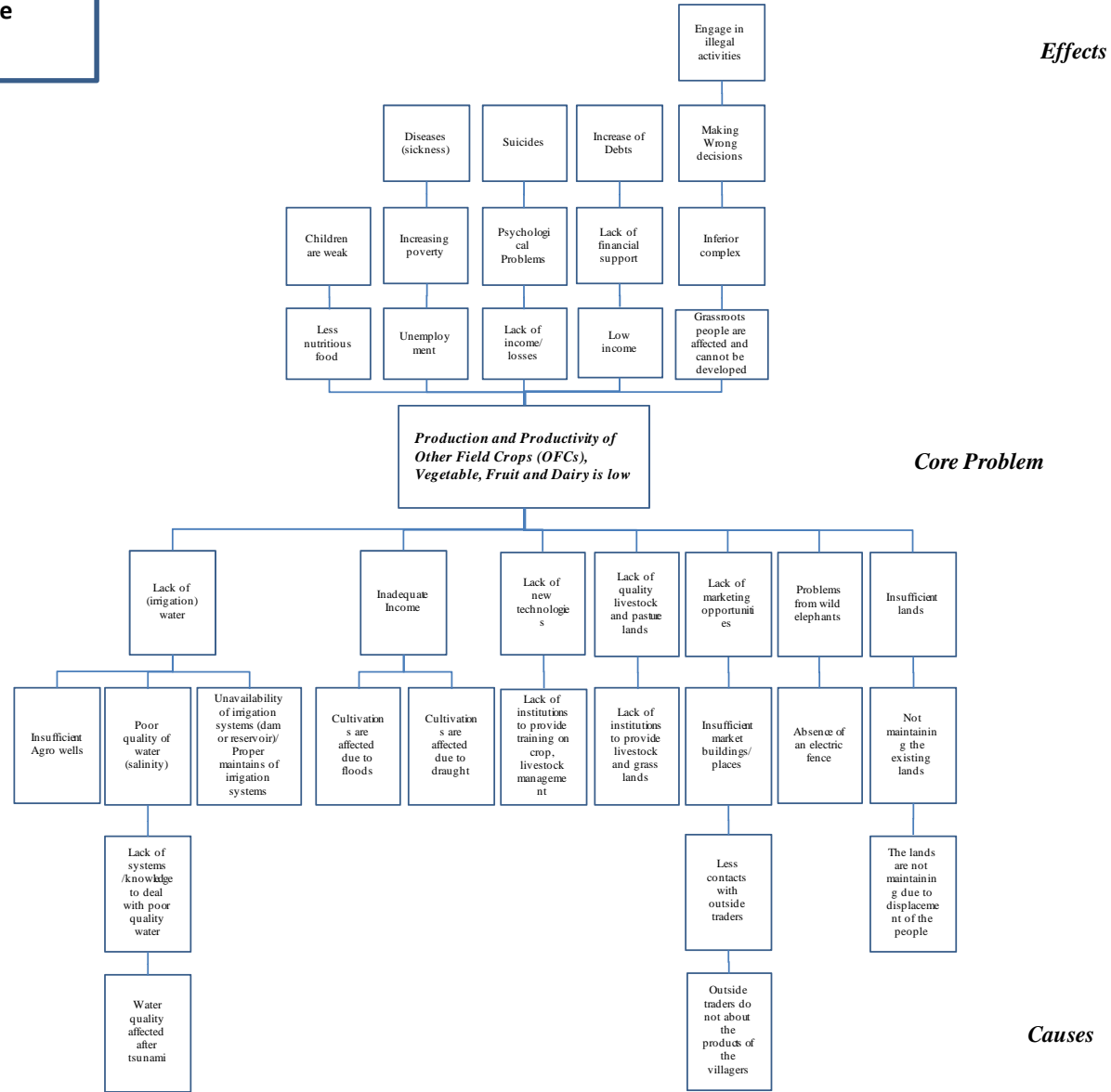
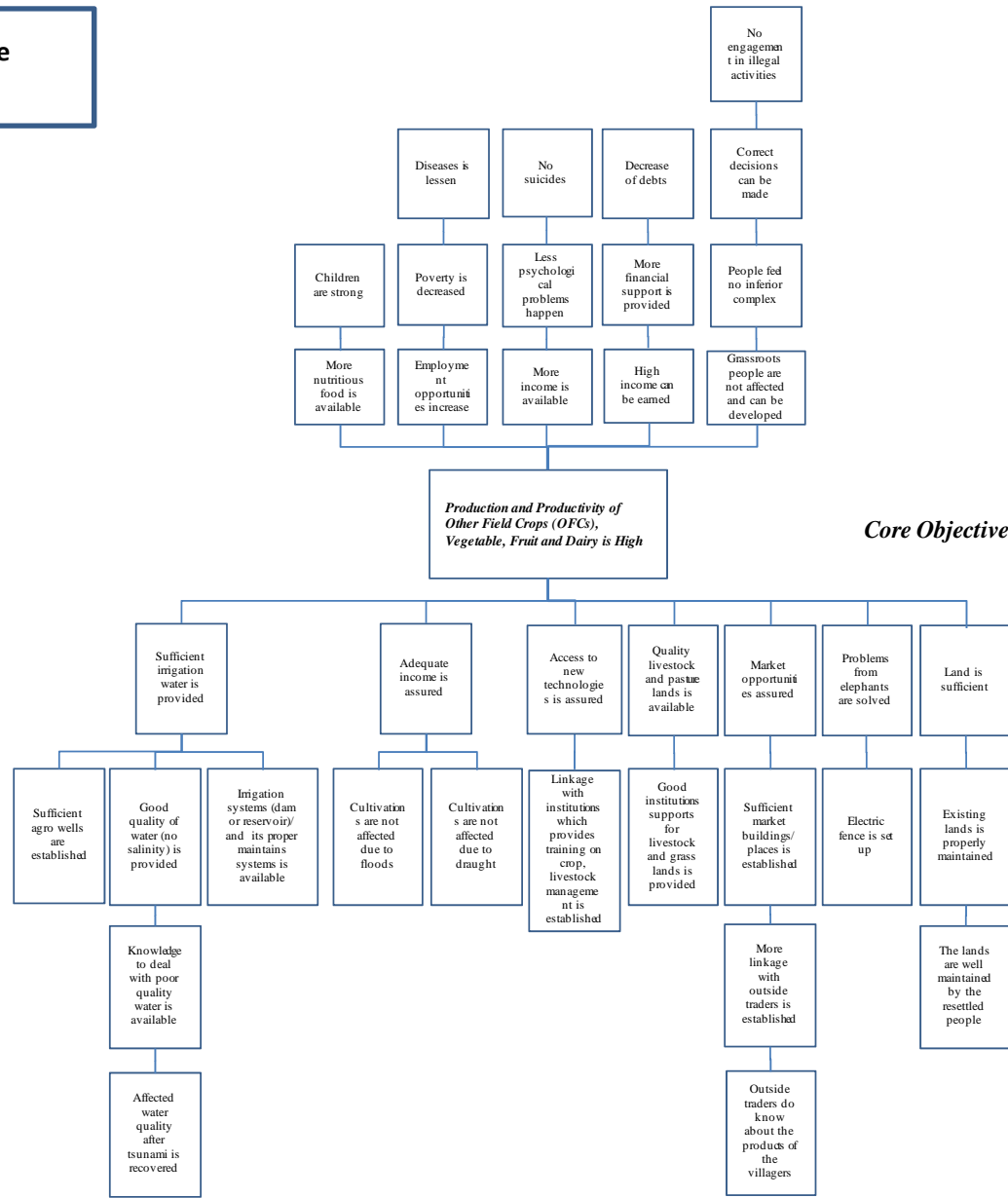


Figure A.4.4 Problem Tree Thiriyay (Eastern)

F.4.4

**Objective Analysis Tree
- Thiriyay (Eastern)**



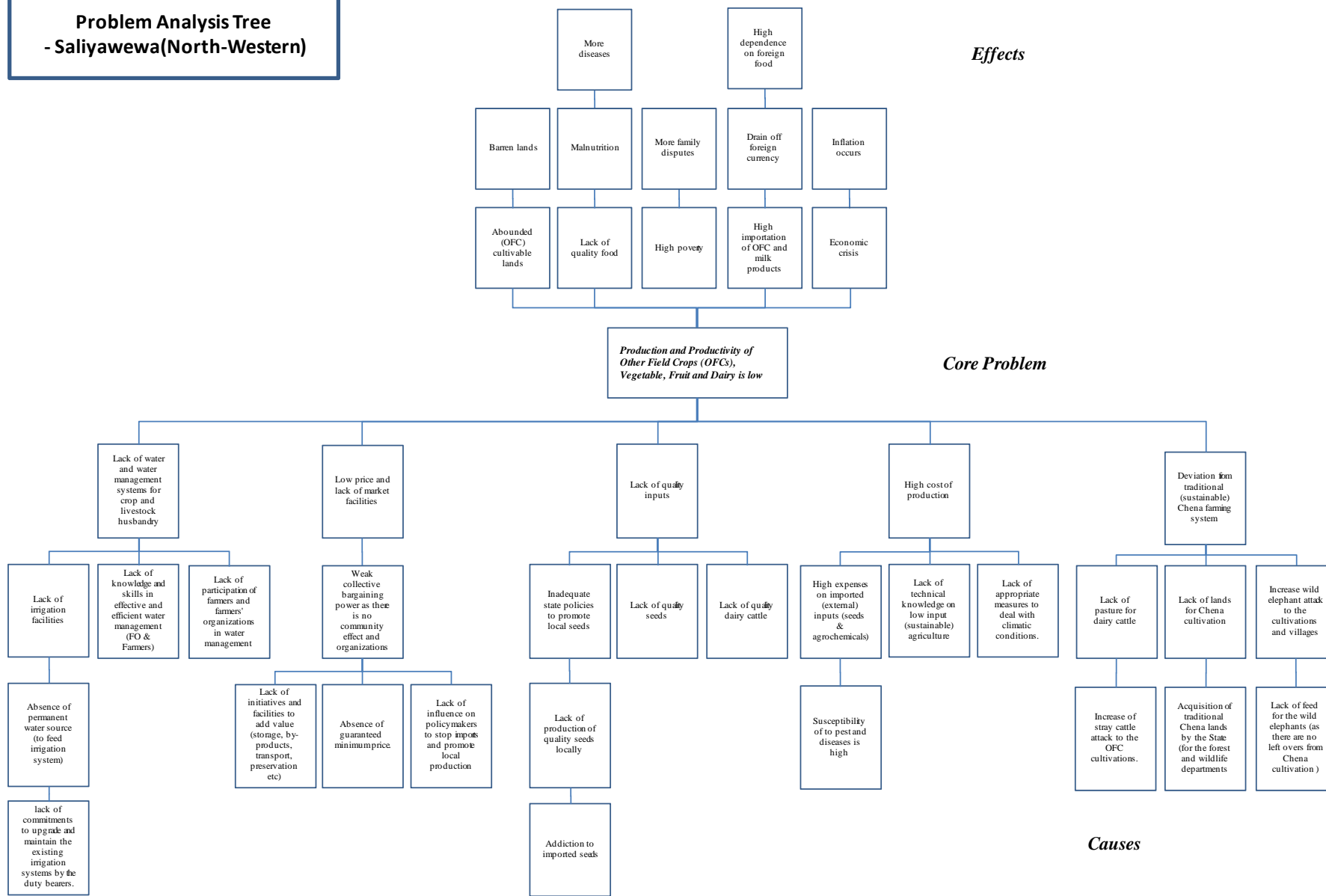
Ends

Core Objective

Means

Figure A 4.5 Objective Tree Thiriyay (Eastern)

**Problem Analysis Tree
- Saliyawewa(North-Western)**



Effects

Core Problem

Causes

Figure A 4.6 Problem Tree Saliyawewa (North-Western)

**Objective Analysis Tree
- Saliyawewa(North-Western)**

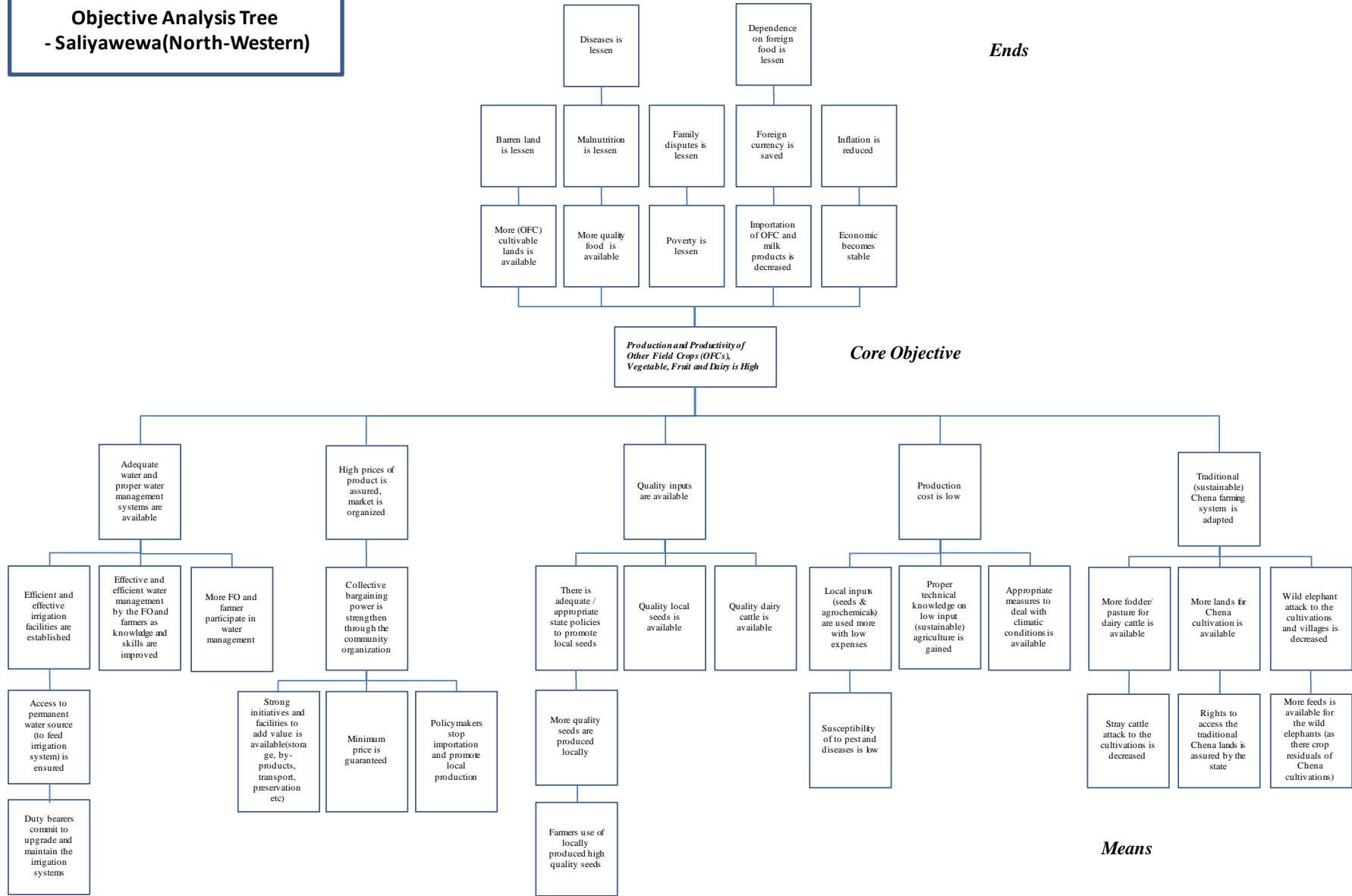
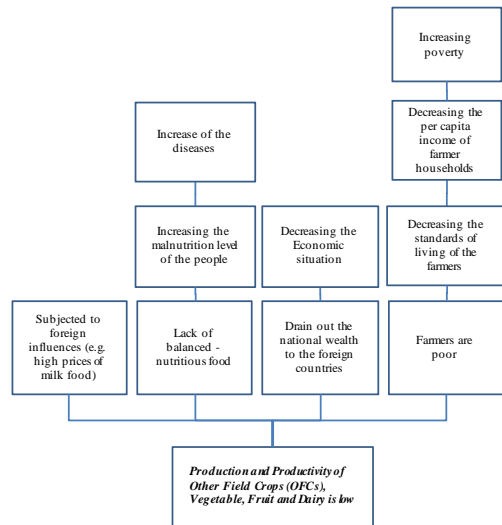


Figure A 4.7 Objective Tree Saliyawewa (North-Western)

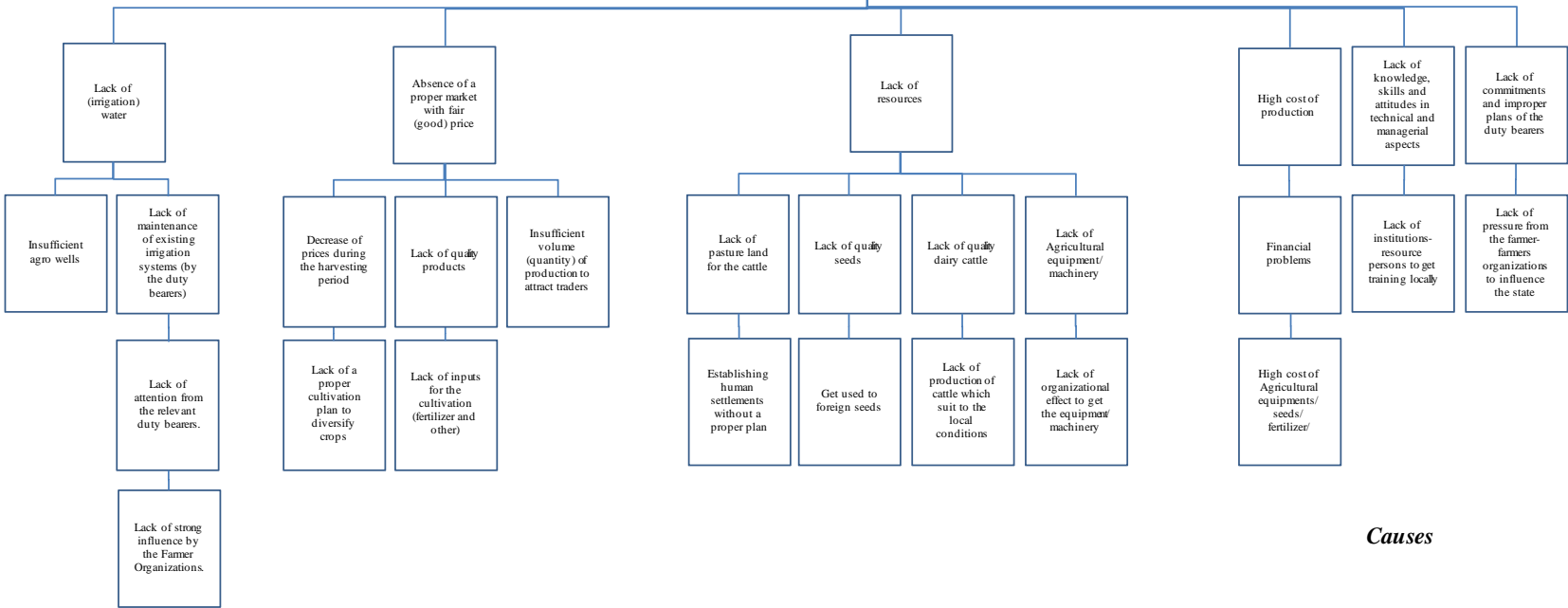
F 4-7

**Problem Analysis Tree
- Thenagallanda (Uva)**



Effects

Core Problem



Causes

Figure A 4.8 Problem Tree Thenagallanda (Uva)

**Objective Analysis Tree
- Thenagallanda (Uva)**

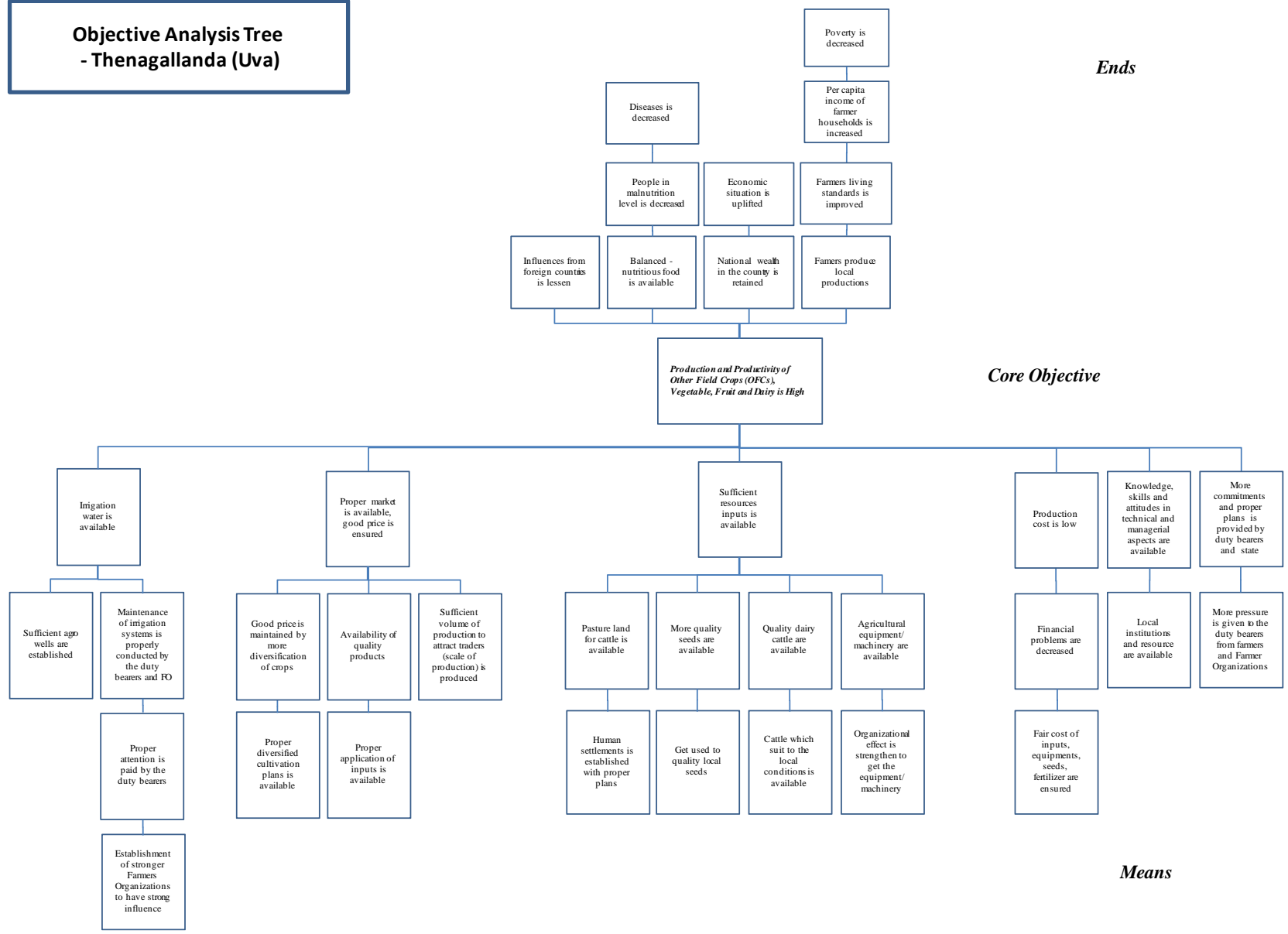
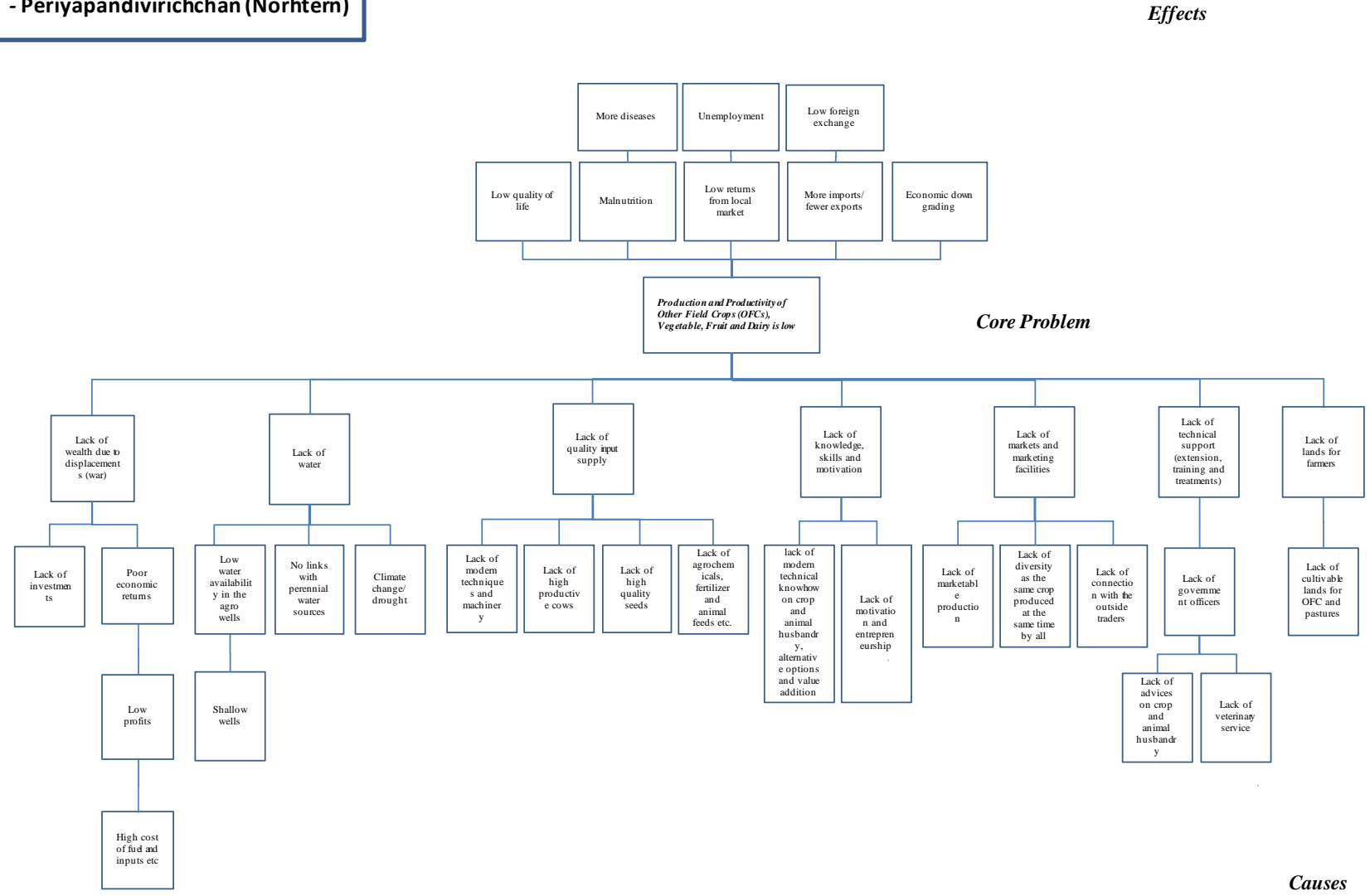


Figure A 4.9 Objective Tree Thenagallanda (Uva)

F 4-9

**Problem Analysis Tree
- Periyapandivirichchan (Northern)**



Effects

Core Problem

Causes

Figure A 4.10 Problem Tree Periyapandivirichchan (Northern)

F 4-10

**Objective Analysis Tree
- Periyapandivirichchan (Northern)**

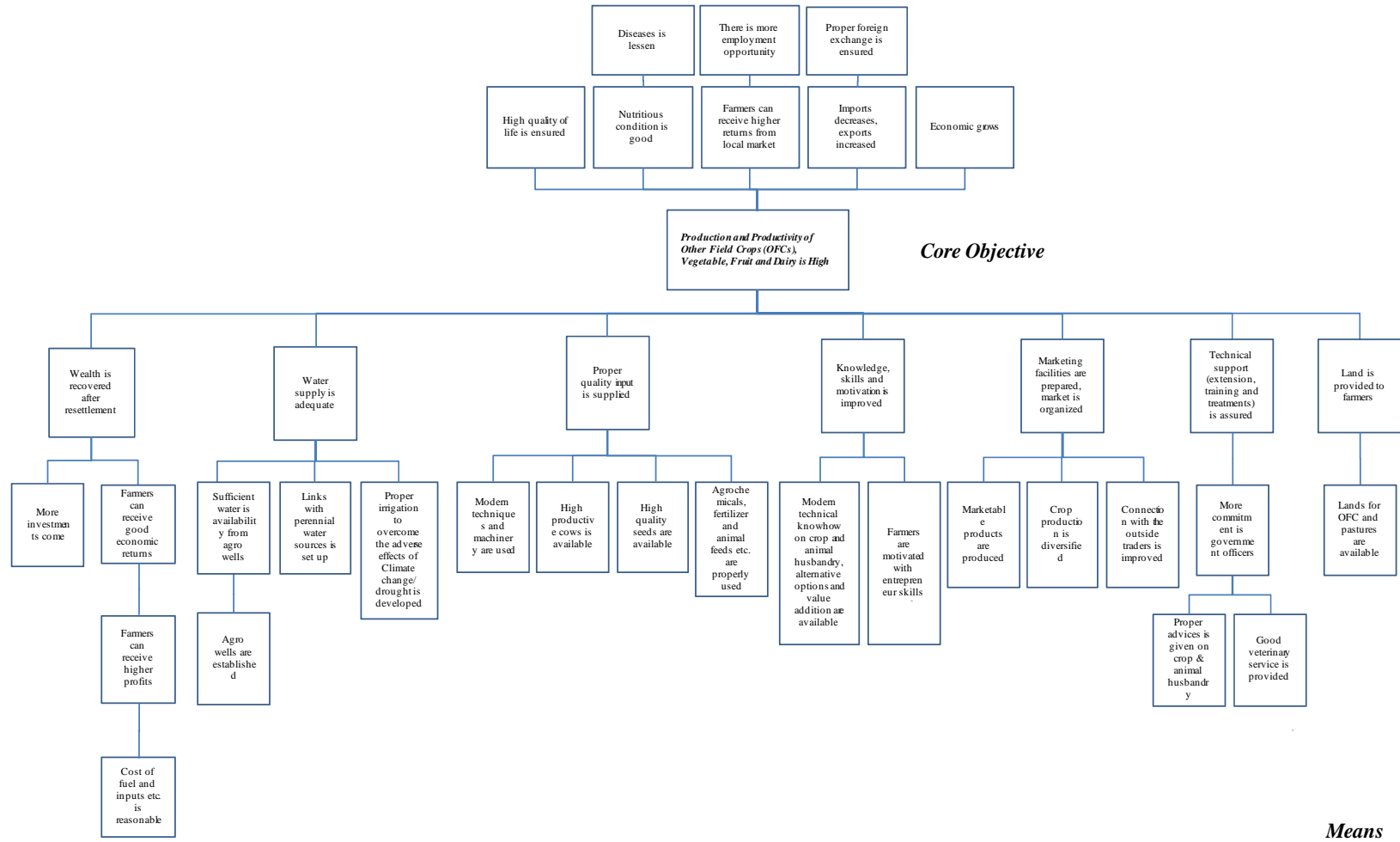


Figure A 4.11 Objective Tree Periyapandivirichchan (Northern)

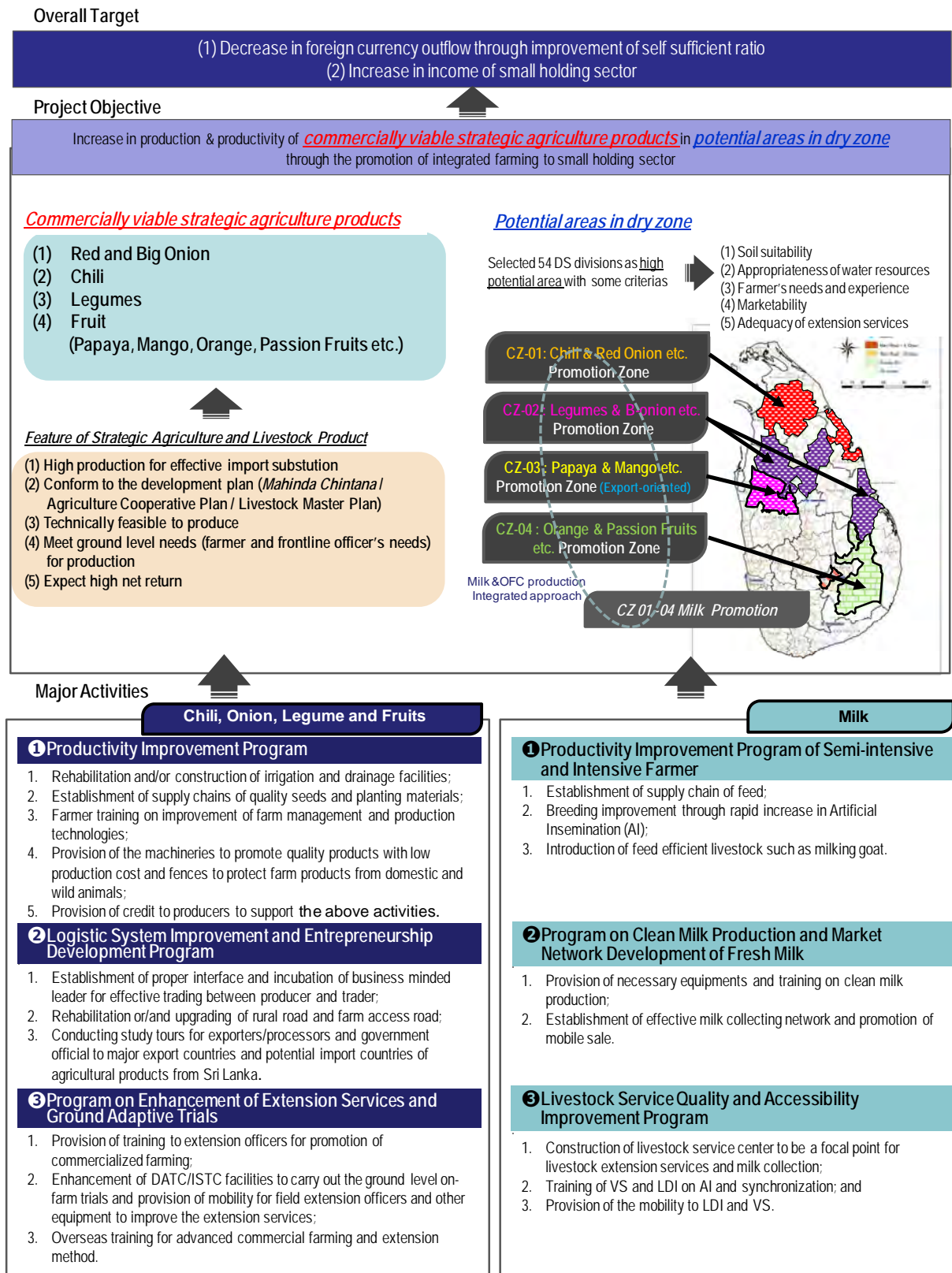


Figure A 4.12 Project Concept Summary

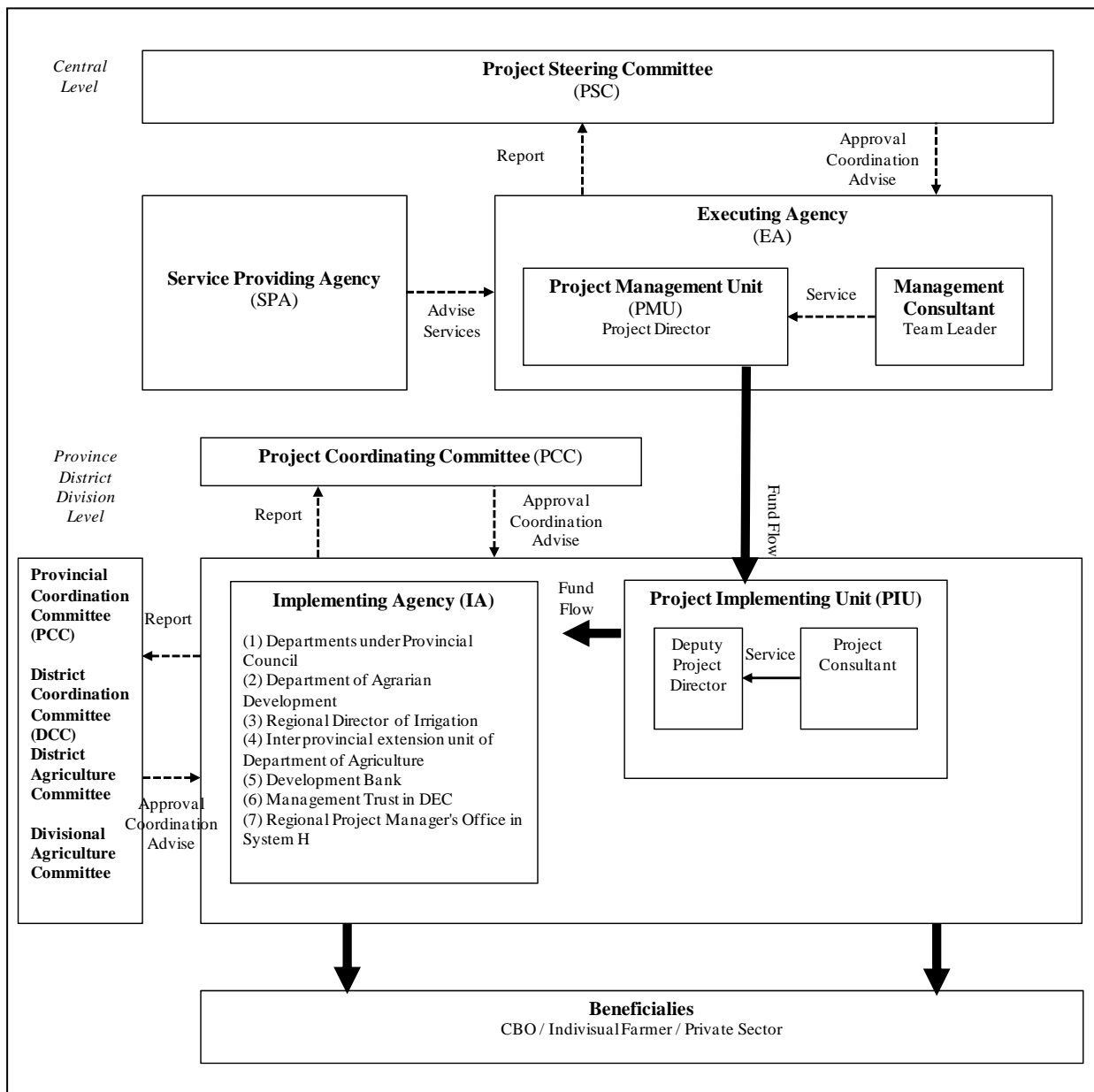


Figure A 5.1 Implementing organization

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Table A 2.1 Sri Lanka's Socio-economic Indices

Item	Unit	2004	2005	2006	2007	2008	2009	2010
1. Demography and Labour Force								
1) Estimated mid. Year population	(1,000 prns)	19,462	19,668	19,886	20,010	20,217	20,450	20,653
2) Population growth rate	(%)	1.2	1.0	1.1	1.1	1.0	1.1	1.0
3) Population density	(prns/km2)	310	314	317	319	322	326	329
- Land area	(km2)	62,705	62,705	62,705	62,705	62,705	62,705	62,705
(excluding large inland waters)								
4) Labour force a/								
- Household population (10 years & over)	(1,000 prns)	16,593	16,871	14,834	15,048	16,320	16,578	16,862
- Total labour force	(1,000 prns)	8,061	8,141	7,599	7,489	8,082	8,074	8,108
- Labour force participation rate	(%)	48.6	48.3	51.2	49.8	49.5	48.7	48.1
- Labour force employed	(1,000 prns)	7,394	7,518	7,105	7,042	7,648	7,602	7,707
of which Agriculture, forestry and fishery	(1,000 prns)	2,477	2,278	2,288	2,204	2,501	2,478	2,520
(Percentage in labour force employed)	(%)	33.5	30.3	32.2	31.3	32.7	32.6	32.7
- Labour force unemployed	(1,000 prns)	667	623	493	447	434	471	401
Unemployment rate	(%)	8.3	7.7	6.5	6.0	5.4	5.8	4.9
2. National Output								
1) GDP at current market prices	(Rs. billion)	2,091	2,453	2,939	3,579	4,411	4,825	5,602
(US\$ billion)		20.7	24.4	28.3	32.7	40.7	42.1	49.5
2) GNP at current market prices	(Rs. billion)	2,070	2,423	2,898	3,540	4,306	4,779	5,530
(US\$ billion)		20.5	24.1	27.9	32.0	39.7	41.6	48.9
3) GDP at constant (2002) market prices	(Rs. billion)	1,828	1,942	2,091	2,233	2,366	2,449	2,645
4) GNP at constant (2002) market prices	(Rs. billion)	1,809	1,918	2,062	2,208	2,309	2,421	2,612
5) GDP Growth Rate (at constant prices)	(%)	5.4	6.2	7.7	6.8	6.0	3.5	8.0
6) Per capita GDP at current market prices	(Rs.)	107,432	124,709	147,776	178,845	218,167	236,445	271,259
Per capita GDP at current market prices	(US\$)	1,062	1,241	1,421	1,617	2,014	2,057	2,399
7) Per capita GNP at current market prices	(Rs.)	106,367	123,181	145,744	176,893	212,972	233,716	267,780
Per capita GNP at current market prices	(US\$)	1,051	1,226	1,402	1,599	1,966	2,033	2,368
8) GDP by industry at current factor cost price								
- Agriculture, forestry and fishing	(%)	12.5	11.8	11.3	11.7	13.4	12.7	12.8
- Mining and quarrying	(%)	1.4	1.5	1.6	1.6	1.6	1.6	1.6
- Manufacturing	(%)	18.7	19.5	19.2	18.5	18.0	18.1	18.0
- Electricity, gas, and water	(%)	2.3	2.4	2.5	2.5	2.4	2.4	2.3
- Construction	(%)	6.1	6.8	7.4	7.4	7.4	7.6	7.6
- Wholesale and retail trade	(%)	24.6	23.2	22.4	22.1	21.5	19.6	19.6
- Restaurants and Hotels	(%)	0.6	0.6	0.6	0.5	0.5	0.5	0.6
- Transport and communication	(%)	11.5	11.7	11.7	11.8	12.0	12.4	12.7
- Banking, insurance and real estate, etc.	(%)	8.5	8.4	9.1	9.2	9.4	10.3	10.7
- Ownership of dwellings	(%)	3.7	3.6	3.5	3.5	3.2	3.3	3.1
- Government services	(%)	7.8	8.4	8.8	9.3	8.6	9.2	8.9
- Private services	(%)	2.2	2.1	1.9	1.9	2.0	2.2	2.3
Total	(%)	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3. Balance of Payments								
1) Merchandise trade	(US\$ million)	-2,243	-2,516	-3,370	-3,656	-5,981	-3,122	-5,205
Exports (f.o.b.)	(US\$ million)	5,757	6,347	6,883	7,640	8,111	7,085	8,307
Imports (c.i.f.)	(US\$ million)	8,000	8,863	10,253	11,296	14,091	10,207	13,512
2) Services (net)	(US\$ million)	419	338	257	302	401	391	698
3) Income (net)	(US\$ million)	-204	-299	-389	-358	-972	-488	-572
4) Goods, Services and Income (1+2+3)	(US\$ million)	-2,028	-2,477	-3,502	-3,712	-6,552	-3,219	-5,079
5) Current Transfers (net)	(US\$ million)	1,380	1,828	2,004	2,311	2,666	3,005	3,660
6) Current Account Balance (4+5)	(US\$ million)	-648	-650	-1,499	-1,402	-3,886	-214	-1,418
7) Capital and Financial Account	(US\$ million)	631	1,224	1,808	2,097	1,773	2,594	2,876
8) Errors and omissions	(US\$ million)	-189	-72	-105	-165	728	346	-537
9) Overall Balance (6+7+8)	(US\$ million)	-205	501	204	531	-1,385	2,725	921
Exchange Rate	(Rs./US\$)	101	101	104	111	108	115	113
Ratio to GDP in percentage								
Trade account	(%)	-10.9	-10.3	-11.9	-11.3	-14.7	-7.4	-10.5
Current account	(%)	-3.1	-2.7	-5.3	-4.3	-9.5	-0.5	-2.9
Current account without Grants	(%)	-3.3	-3.0	-5.7	-4.6	-9.8	-0.7	-3.0

Note: a/; Mullaitive and Kilinochchi districts are excluded in 2004, all the districts are included in 2005, Northern and Eastern provinces are excluded in 2007, and Eastern province is included but Northern province is excluded in 2008, 2009 and 2010.

Source: Economic and Social Statistics of Sri Lanka 2011, Central Bank of Sri Lanka

Table A 2.2 Production, Import & Export and Domestic Supply Quantities of Agriculture Products, and Food Supply Quantities in 2002 and 2007

item	Production			Import Quantity			Export Quantity			Domestic supply quantity			Food supply quantity		
	2002	2007	Ave. Growth	2002	2007	Ave. Growth	2002	2007	Ave. Growth	2002	2007	Ave. Growth	2002	2007	Ave. Growth
	(1000 tons)	(1000 tons)	(% p.a.)	(1000 tons)	(1000 tons)	(% p.a.)	(1000 tons)	(1000 tons)	(% p.a.)	(1000 tons)	(1000 tons)	(% p.a.)	(kg/capita /yr)	(kg/capita /yr)	(% p.a.)
Cereals - Excluding Beer + (Total)	1938	2,150	2.10	1,307	1,199	-1.71	10	191	80.39	3,012	3,190	1.15	145.6	143.5	-0.29
Wheat															
Rice (Milled Equivalent)	1,907	2,088	1.83	93	109	3.23	3	6	14.87	1,945	2,123	1.77	92.7	97.3	0.97
Barley															
Maize	26	56	16.59	99	88	-2.33	0	0	-	125	145	3.01	5.0	1.6	-20.38
Millet	4	6	8.45	3	4	5.92	0	0	-	7	9	5.15	0.3	0.5	10.76
Cereals, Other															
Starchy Roots + (Total)	361	346	-0.85	69	90	5.46	5	1	-27.52	425	436	0.51	15.9	15.6	-0.38
Cassava	225	220	-0.45	21	22	0.93	5	0	-100.00	241	242	0.08	8.3	7.7	-1.49
Potatoes	89	77	-2.86	47	68	7.67	0	0	-	136	145	1.29	5.8	6.1	1.01
Sweet Potatoes	47	49	0.84	0	0	-	0	0	-	47	49	0.84	1.7	1.7	0.00
Roots, Other															
Sugarcrops + (Total)	963	783	-4.05	0	0	-				963	783	-4.05	32.3	24.1	-5.69
Sugar Cane	963	783	-4.05	0	0	-				963	783	-4.05	32.3	24.1	-5.69
Sugar & Sweeteners + (Total)	39	33	-3.29	619	577	-1.40	1	2	14.87	622	519	-3.56	31.7	25.0	-4.64
Sugar, Non-Centrifugal	1	2	14.87							1	2	14.87	0.1	0.1	0.00
Sugar (Raw Equivalent)	38	32	-3.38	612	570	-1.41	0	1	-	615	511	-3.64	31.3	24.6	-4.70
Sweeteners, Other										6	6	0.00	0.3	0.3	0.00
Pulses + (Total)	21	20	-0.97	157	155	-0.26	0	0	-	178	174	-0.45	8.0	8.0	0.00
Beans	10	9	-2.09	14	8	-10.59	0	0	-	25	17	-7.42	1.2	0.8	-7.79
Peas										18	25	6.79	0.9	1.2	5.92
Pulses, Other	10	11	1.92	124	122	-0.32	0	0	-	135	132	-0.45	5.8	5.9	0.34
Treenuts + (Total)	17	33	14.19	1	0	-100.00	1	2	14.87	17	31	12.77	0.6	1.1	12.89
Oilcrops + (Total)	1,827	2,199	3.78	17	12	-6.73	245	261	1.27	1,604	1,898	3.42	60.3	63.9	1.17
Soyabean Oil	1	1	0.00	0	2	-	0	0	-	1	2	14.87	0.1	0.1	0.00
Groundnut Oil	1	1	0.00	0	0	-	0	0	-	1	1	0.00	0.0	0.0	-
Palmkernel Oil										22	17	-5.03	0.1	0.2	14.87
Palm Oil										96	341	28.85			
Coconut Oil	30	67	17.43	34	5	-31.84	3	91	97.87	50		-100.00	2.0	3.4	11.20
Sesameseed Oil	0	0	-	0	1	-	0	0	-	0	1	-	0.0	0.1	-
Ricebran Oil	6	6	0.00	0						6	6	0.00	0.3	0.3	0.00
Oilcrops Oil, Other	1	1	0.00	0	9	-	0	0	-	2	9	35.10			
Vegetables + (Total)	531	734	6.69	157	191	4.00	12	18	8.45	676	906	6.03	30.9	40.1	5.35
Tomatoes	41	65	9.65	3	4	5.92	0	1	-	44	68	9.10	2.0	2.9	7.71
Onions	67	149	17.33	134	143	1.31	0	0	-	201	292	7.75	9.0	12.7	7.13
Vegetables, Other	423	519	4.18	21	44	15.94	12	17	7.21	431	547	4.88	19.9	24.5	4.25
Fruits - Excluding Wine + (Total)	830	728	-2.59	62	35	-10.81	25	27	1.55	867	736	-3.22	35.5	27.2	-5.19
Oranges, Mandarines	6	6	0.00	13	7	-11.65	0	0	-	18	13	-6.30	0.9	0.6	-7.79
Lemons, Limes	21	5	-24.95	0	0	-	0	1	-	21	4	-28.23	1.1	0.2	-28.89
Plantains	590	519	-2.53							590	519	-2.53	22.6	17.4	-5.10
Apples				20	19	-1.02	0	0	-	20	19	-1.02	1.1	0.9	-3.93
Pineapples	51	53	0.77	0	0	-	3	3	0.00	48	51	1.22	2.1	2.1	0.00
Dates				12	0	-100.00	0	0	-	12	0	-100.00	0.6	0.0	-100.00
Grapes				12	4	-19.73	0	0	-	12	4	-19.73	0.6	0.2	-19.73
Fruits, Other	162	145	-2.19	4	4	0.00	22	23	0.89	145	126	-2.77	6.4	5.6	-2.64
Stimulants + (Total)	323	313	-0.63	6	19	25.93	292	194	-7.85	29	137	36.42	1.6	7.0	34.34
Coffee	10	6	-9.71	0	1	-	0	0	-	10	6	-9.71	0.5	0.3	-9.71
Cocoa Beans	3	1	-19.73	2	5	20.11	0	1	-	5	5	0.00	0.3	0.3	0.00
Tea	310	305	-0.32	4	14	28.47	292	193	-7.95	14	126	55.18	0.8	6.5	52.04
Spices + (Total)	46	48	0.85	48	54	2.38	25	26	0.79	69	76	1.95	3.6	3.9	1.61
Pepper	18	19	1.09	0	0	-	8	7	-2.64	10	12	3.71	0.5	0.6	3.71
Pimento				25	33	5.71	0	0	-	25	33	5.71	1.3	1.6	4.24
Cloves	4	3	-5.59	0	0	-	4	5	4.56	0		-	0.0	0.0	-
Spices, Other	24	26	1.61	23	21	-1.80	13	15	2.90	34	33	-0.60	1.8	1.7	-1.14
Alcoholic Beverages + (Total)	47	54	2.82	14	17	3.96	0	1	-	60	70	3.13	2.6	2.8	1.49
Wine				1	1	0.00	0	0	-	1	1	0.00	0.0	0.0	-
Beer	43	50	3.06	1	1	0.00	0	1	-	43	50	3.06	2.3	2.5	1.68
Beverages, Alcoholic	4	4	0.00	1	2	14.87	0	0	-	5	6	3.71	0.3	0.3	0.00
Alcohol, Non-Food				11	13	3.40	0	0	-	11	13	3.40			
Meat + (Total)	121	131	1.60	2	5	20.11	1	1	0.00	122	135	2.05	6.4	6.8	1.22
Bovine Meat	31	27	-2.73	0	0	-	0	0	-	31	28	-2.02	1.6	1.4	-2.64
Mutton & Goat Meat	2	1	-12.94	1	0	-100.00	0	0	-	2	2	0.00	0.1	0.1	0.00
Pigmeat	2	2	0.00	0	1	-	0	1	-	2	2	0.00	0.1	0.1	0.00
Poultry Meat	86	100	3.06	2	4	14.87	0	0	-	87	104	3.63	4.6	5.2	2.48
Offals + (Total)	13	14	1.49	0	0	-	0	0	-	13	14	1.49	0.7	0.7	0.00
Animal Fats + (Total)	2	2	0.00	16	28	11.84	0	1	-	18	29	10.01	0.8	1.4	11.84
Butter, Ghee	1	1	0.00	1	1	0.00	0	0	-	1	2	14.87	0.1	0.1	0.00
Fats, Animals, Raw	1	1	0.00	15	27	12.47	0	1	-	16	27	11.03	0.7	1.4	14.87
Eggs + (Total)	51	52	0.39	0	1	-	0	0	-	50	52	0.79	2.2	2.2	0.00
Milk - Excluding Butter + (Total)	160	176	1.92	519	563	1.64	1	11	61.54	677	727	1.44	34.9	36.1	0.68
Fish, Seafood + (Total)	300	318	1.17	172	174	0.23	14	26	13.18	458	465	0.30	21.8	21.7	-0.09
Freshwater Fish	26	43	10.59	0	1	-	1	0	-100.00	25	43	11.46	1.3	2.2	11.10
Demersal Fish	49	18	-18.15	0	10	-	5	7	6.96	44	22	-12.94	2.3	1.1	-13.72
Pelagic Fish	206	227	1.96	171	161	-1.20	3	11	29.67	374	377	0.16	17.4	17.3	-0.12
Marine Fish, Other	8	15	13.40	0	0	-	0	3	-	8	13	10.20	0.4	0.6	8.45
Crustaceans	10	13	5.39	0	1	-	5	5	0.00	6	9	8.45	0.3	0.5	10.76
Memo item															
Population x1000 persons	19,040	19,882	0.87	19,040	19,882	0.87	19,040	19,882	0.87	19,040	19,882	0.87	19,040	19,882	0.87

Note: Product/food item with matrix performed higher increase in per capita consumption than the Sri Lanka's population increase rate of 0.87% p.a. during 2002-2007 period.
Source: FAOSTAT

Table A 2.3 Activity Output Matrix: Development of the Agriculture Sector

Policy Thrust	Intervention	Key Indicator	Present Status	Anticipated Targets	
				2015	2020
Production and productivity increase of agriculture products to ensure the food security of people and to export the surplus	<u>Paddy</u> Provision of improved seeds, planting materials and other inputs with modern technology	Productivity of paddy lands	4.3 tons/ha	5.5 tons/ha	6.5 tons/ha
	Expansion of the extent of the cultivable Land	Annual production of paddy	3.64 million tons	6.5 million tons	8.2 million tons
		Provision of quality seed paddy	35%	60%	100%
		Import of wheat flour (tons)	662,000	350,000	130,000
Provision of water supply through the 10,000 tank programme and the mega irrigation projects		Extent of abandoned paddy lands (ha)	100,000	30,000	0
		Cropping intensity	120%	140%	160%
	<u>Other Field Crops (OFC)</u> Modernization of research institutes and seed farms to cater to the demand for seed and the requirements of planting material	No of seed farms modernized	Farms are under utilized (19)	50% of the farms (10)	All seed farms (19)
	Land will be provided to private parties to augment the cultivation of cereals, tubers and pulses	Additional amount of lands provided for cultivation	OFC - 10,000 ha.	0.1 million ha	0.1 million ha of lands will be cultivated
	<u>Horticulture Crops</u> Increase of vegetable production by reducing post harvest losses and ensuring the price stability by making a direct connection between producer and consumer.	Vegetable production	0.58 million tons	1.2 million tons	1.5 million tons
	Establishment of new floriculture villages for increase in export revenue	No of floriculture villages established	Only a few farms are operational at present.	600 floriculture villages	1500 floriculture villages
	Establishment of orchards based on Joint collaboration between farmers and private entrepreneurs	No of orchards established	At present the concept of fruit zoning is limited to a few locations	5 orchards of 200 ha each will be established	10 orchards
Creation of a knowledge based farming society	Enhancement of institutional capacity Development of the agricultural information system through Agrarian Service Centres (ASC)	No of ASCs modernized and developed.	80 ASCs have already been covered	Cover 350 ASCs	Cover all ASCs (552)
Research and development will be oriented towards the demand driven approaches which arise due to actual needs of the people and the sector	Promotion of traditional rice varieties among farmers	Extent of cultivation	24,000 ha	35,000 ha	50,000 ha
	Development of research institutes and regional research centres	No of institutes	To be improved	All institutes (13) will be developed	
	Improvement of agricultural biodiversity Acceleration of breeding programmes among traditional varieties Strengthen extension activities and close the research gap				
Processing and value addition	Export of value added agricultural products and establishment of new fruit and vegetable processing factories	No of factories established	-	5	16
	Post harvest losses are minimized with the introduction of crates and modern technology	Percent of post harvest loss	30-35%	5%	2%
Integration of marketing channel	Maintain a buffer stock of paddy and strengthen storage capacity	Stock to be stored	250,000 tons	750,000 tons	1.3 million tons
	Promotion of commercial agriculture	Introduction of bar code system	Only a few farms are operational at present	20%	50%
	Development of contracts and cooperative farming	No of commercial farms	500	1500	3000

Source: Mahinda Chintana, 2010

**Table A 2.4 Investment Programme for Agriculture Sector
(Corporate Plan of the Ministry of Agriculture)**

	Budget (Rs. Million)					Total
	2011	2012	2013	2014	2015	
1. Create a conducive environment for agricultural development through review and revision of the current policy and legal framework						
1.1 To review and update the National Agriculture Policy (NAP) and National Agriculture Research Policy (NARPo)	0.3	1.5	1.0	1.0	1.1	4.8
1.2 To review and update the regulatory enactments pertaining to agriculture sector	0.0	0.4	0.4	0.0	0.0	0.9
2. Ensure food security under changing and variable climate through improved and novel research, extension, advisory						
2.1 To develop National Research Priorities and National Agriculture Research Plan	15.3	26.8	27.7	33.3	46.0	149.1
2.2 To increase production and productivity of rice under changing and variable climate	472.0	361.5	384.5	288.9	417.5	1,924.4
2.3 To increase production and productivity of OFCs, vegetables and fruits under changing and variable climate	694.6	744.8	770.9	811.9	835.6	3,857.8
2.4 To make officers and farmers aware on novel technologies for improved production and productivity of agricultural crops (see 2.2 and 2.3)	90.0	1,111.0	1,175.0	340.0	351.0	3,067.0
3. Expand and promote domestic value-added agricultural products and agriculture exports						
3.1 To implement programs to increase value-added product development to provide uninterrupted supply of commodities to domestic and international market	44.0	289.0	311.0	274.0	282.0	1,200.0
4. Promote waste reduction in agricultural commodities at farm-gate and at transit						
4.1 To reduce post harvest losses of agricultural commodities	46.0	30.0	21.2	22.2	23.2	142.6
5. Facilitate the empowerment of farming communities to transform subsistence agriculture to commercial agriculture						
5.1 To build resilience to climate change impacts	235.0	279.0	293.0	300.3	306.0	1,413.3
5.2 To establish agro-industries among farming communities	316.3	338.5	355.5	369.0	383.0	1,762.3
6. Promote conservation of the environment and natural resources through sustainable land use practices						
6.1 To institute environment sensitive farming communities	59.0	60.5	67.0	69.5	72.5	328.5
6.2 To conserve soil and environment on adverse impacts of agricultural practices	403.1	446.1	457.0	470.0	485.0	2,261.2
7. Facilitate accessibility of affordable credit and quality inputs including seeds and planting materials and agricultural machinery to farmers						
7.1 To provide financial incentive to farming communities to improve productivity as a disaster risk reduction measure	-	-	-	-	-	-
7.2 To provide quality agricultural inputs to the farming communities at affordable prices (See 2.1 and 2.2)	20.0	10.0	10.0	10.0	10.0	60.0
7.3 To increase the machinery in use of agricultural farming practices to increase labour productivity (2.1, 2.2, 2.3, 7.1)	130.0	110.0	117.0	113.0	113.5	583.5
8. Promote national, Regional and global partnerships for agriculture development						
8.1 To establish partnerships with other state and private sector organizations in Sri Lanka to conduct research on agricultural commodities	20.0	45.0	97.0	113.0	130.0	405.0
8.2 To establish linkages with recognized regional and global institutions for research and development, capacity building, and technology transfer	5.3	116.7	136.8	144.2	146.8	549.8
9. Strengthen capacity building and monitoring and evaluation to achieve high standards of delivery						
9.1 To establish good governance in implementing activities of the Ministry	9.7	20.2	20.5	25.7	26.0	102.1
9.2 To establish a performance-based work culture	13.5	93.0	97.5	102.0	103.0	409.0
9.3 To improve work performance through implementation of periodic review and management information system	2.4	5.1	8.9	10.7	11.1	38.2
9.4 To upgrade the welfare facilities for the work force	0.8	5.1	5.4	5.7	6.0	23.0
Total	2,577.3	4,094.1	4,357.3	3,504.4	3,749.3	18,282.5

Source: Corporate Plan 2011-2015, Ministry of Agriculture

Table A 2.5 National Livestock Development Plan (1/6)

Policy	Targets	Projects	Main Executor	Budget
National self reliance and food security	Increase local Milk availability by three folds	All projects in the master plan will ultimately assist in meeting these targets	Policy - MLD	-
	Increase per capita Eggs from 68 eggs (2010) to 90 eggs (2016)		Planning & facilitating - DAPH	
	Increase per capita Broiler meat from 5 kg (2010) to 10 kg by 2016			
	Increase per capita mutton from 0.08 kg (2010) to 0.16 kg by 2016			
	Increase per capita pork availability from 0.07 kg (2010) to 0.14 kg by 2016			
	100% domestic requirement is fulfilled by quality maize at competitive prices			
	Supply an additional four hundred eighty million liters of domestically produced milk by 2015			
	Supply an additional 650 million eggs by 2016			
	Supply an additional 117000 metric tons of broiler meat by 2016			
	Increase pork production by 25%			
	Increase mutton production by 25%			
	4000 acres of improved fodder varieties to be cultivated to produce 120,000 metric tons of fodder	Dairy Project no. 2: Animal Feed Resource Development Program	NCP - Strengthening Dairy Farms – Feed Resources Development - 300 farmers –	Rs 7.5 m
	Manage and utilize 3,000 acres natural grass and 4,000 acres of Guinea grass to produce 45,000 and 140,000 MT of fodder on fresh matter basis		DAPH – Development of fodder nurseries	Rs 2.0 m
	Planting new fodder trees to produce 140,000 MT fodder on fresh matter basis		-	-
Utilization program for 90,000 MT crop residue annually	NWP – Establishment of Animal Feed mills		Rs 19.0 m	
Nine (9) small scale animal feed mills and three (3) small scale urea molasses brick factories and forage pelleting mills to be established				
400,000 thousand AIs to 100,000 certified female calves	Dairy Project no. 4: Breeding Program (upgrading and genetic improvement)	NWP – AI Development Prog –	Rs 1.5 m	
Nucleus herd at NLDB – 4,000 temperate crosses, 4,000 European crosses, 1,000 sahiwal and 4,000 murrhah		NWP – AI/PD incentive	Rs 0.5 m	
Importation of 5,000 cows for breeding		NWP – 2 lt Liquid		

Table A 2.5 National Livestock Development Plan (2/6)

Policy	Targets	Projects	Main Executor	Budget
	100,000 certified heifer calves salvaged		nitrogen cans NWP – Stud bull distribution – 31 studs – NWP – Heifer calf subsidy program – NWP – Buffalo breeding farm development – DAPH – Heifer calf rearing program DAPH – Milk Recording program DAPH / Provincial – AI program DAPH / Provincial –AI Calf registration program DAPH / Provincial Stud bull program	Rs 0.5 m Rs 1.0m Rs 0.5m Rs 1100 m
	Embryo transfer unit		DAPH	Rs 415 m
	Establish a disease surveillance system		DAPH – Vaccination program – JE	Rs 50 m
	Eradication of Foot and Mouth Disease by 2015	Dairy Project no. 5: Health Management and Disease control program	DAPH – Vaccination program –HS, FMD	Rs 860 m
	Eradication of Hemorrhagic septicemia by 2015		DAPH – Vaccination program – BQ	Rs 460 m
	Vaccination of 200,000 cattle for BQ		DAPH – Brucellosis Eradication Program	Rs 90 m
	De-worming and tick control measure for 200,000 calves		DAPH – TB control program	Rs 90 m
	Establish 25 district level veterinary hospitals and Veterinary Investigation centers		Dairy Project no. 6:	DAPH
	Establish 600 veterinary service units	Veterinary Service	DAPH	Rs 2730 m

Table A 2.5 National Livestock Development Plan (3/6)

Policy	Targets	Projects	Main Executor	Budget	
	Disease diagnostic facilities for all government veterinary offices	Improvement program	DAPH	Rs 300 m	
	1,000 motorcycles and 300 vehicles for field officers		DAPH	Rs 1050 m	
	NWP –Construction of Veterinary Offices		NWP	Rs 2.5m	
	Reduced import of Soya Bean Meal and Fish meal by 50%	Poultry Project no. 3:	MLD	Rs 12 m	
	Two new Grand Parent (GP) – Broiler and Layer established by 2016	Reduced Import dependency on inputs	DAPH	Rs 60 m	
	Establish 45 goat breeding farms at provincial level		Goat Project 1: Supply of nucleus stock for goat breeding	DAPH nucleus farm	Rs 1125 m
				NCP – Strengthening Thirappane Goat Breeding Farm – Provision of breeding goats – 50 numbers –	Rs 1.28 m
				EP – Establishment of Goat Breeder unit, Kallady –	Rs 3.0m
				NWP – Goat breeding farm development	Rs 0.5m
	Importation of 360 - large white, Duroc and Land race grand parents		Swine Project Breeding: Implementation of the swine breeding policy	NWP – Swine breeding farm development –	Rs 0.45m
Importation of 1200 deep frozen semen of Large white, Duroc and Land race	DAPH – Supply of deep frozen semen NLDB – Importation of stock			Rs 18.0 m Rs 4.5 m	
Twelve (12) mini feed mills		Swine Project Feeding: Establishment of mini feed mills for the swine sector	MLD	Rs 6.0 m	
Improvement of 600 piggery units		Swine Project Prevention of environmental Pollution: Eco-friendly swine industry	MLD	Rs 15.0	
Promoting smallholders to be commercial entrepreneurs	120,000 small scale dairy farms improved with good animal husbandry practices	Dairy Project no. 1: Small scale dairy farm development program	DAPH	Rs 3850 m	
			NCP- Strengthening Dairy Farms – Cattle shed construction, planned breeding and farm planning – 50 farms –	Rs 2.5 m	

Table A 2.5 National Livestock Development Plan (4/6)

Policy	Targets	Projects	Main Executor	Budget
			NCP - Strengthening Dairy Farms – Change dairy farms as integrated models- 50 farms NWP – Ande Cow Distribution –NWP – Establishment of new Dairy farms	Rs 2.5 m Rs 2.0 m Rs 3 m
	1,000 medium scale dairy breeder farms with 15,000 dairy out grower farms to be improved	Dairy Project no. 1: Medium scale dairy farm development program with out-grower system	DAPH NWP – Farm mechanization	Rs 1650 m Rs 5.0m
	Formation of 10,000 farmer managed societies and dairy villages		M/LD Dairy villages	Rs 525 m
	Establish the National Dairy Technology Training Institute	Dairy Project no. 8: Man power development	M/LD and DAPH	Rs 540 m
	Establishment of 5,000 field level demonstration farms		DAPH / Provinces	Rs 80 m
	Conducting stakeholder standardized training programs 100,000 man days annually		Provinces NCP – Training of Farmers – 1000 farmers – Rs 1.0m	Rs 100 m
	Development of a hand book and a comprehensive training package for commercial scale dairy farming		DAPH	
	Establish 300 dairy farm based and dairy village based livestock service centers	Dairy Project no. 9: Institutional Development Program	DAPH / Provinces NWP – Wannigama Training Centre Development –	Rs.350 m Rs 1.0m
	Provide 2500 youth five (5) she goats and a buck on subsidized rate	Goat Project 2: Assist unemployed youth to commence goat farming	Provinces Popularization of goat rearing	Rs.125 m
Food chain to deliver affordable livestock products to consumers	Training for 6000 stakeholders	Swine Project Extension: Upgrading knowledge in swine farmers	DAPH / Provinces	Rs 1.8 m
	500 urban and semi-urban sales outlets and 1000 mobile household milkmen	Dairy Project no. 3: Milk Marketing Program	MLD NWP – Empowerment of Milk Societies –	Rs 75 m Rs 0.4 m

Table A 2.5 National Livestock Development Plan (5/6)

Policy	Targets	Projects	Main Executor	Budget
	1000 cottage level milk processors to process 50,000 liters of milk	<u>Poultry Project no. 1:</u> Reduced COP of chicken meat and eggs	MLD NWP – Motivation of milk value addition sector	Rs 20 m Rs 0.5m
	Production of milk powder enhanced by 200,000 liters per day		MLD	Rs 450 m
	95% of the breeder farms achieve Hen Housed breed standards		Private sector	
	50% of the commercial farms achieve performance standards	<u>Poultry Project no. 7:</u> Improve marketing systems for poultry products	Private sector	
	Quality eggs in market		Private sector	
	Wooden egg boxes replaced by 100%	<u>Goat Project 3:</u> Improve quality of mutton	Private sector	
	Establish nine (9) goat slaughter houses at provincial level		DAPH EP: Establishment of Slaughter plant –	Rs 1125 m Rs.1.5 m
	Construction of six (6) standard slaughter plants	<u>Swine Project Marketing:</u> Supply of hygienic pork	DAPH	Rs 30 m
	Establishment of two (2) new processing factories	<u>Dairy Project no. 3:</u> Milk Marketing Program	DAPH	Rs 15 m
Ensure safer and quality livestock products	Regional Ultra Heat Treated (UHT) milk factories are to be established to process 50,000 liters per day		Private sector	Rs.150 m
	Twenty (20) district level mini dairies to process 20,000 liters of milk per day		Milco	
	Mastitis control program for 300,000 cows annually	<u>Dairy Project no. 5:</u> Health Management and disease control program	DAPH NCP – Conducting Mobile Clinics – 320 clinics – 8000 farmers	Rs 150 m Rs 1.5 m
	Eradication of Brucellosis		DAPH	Rs 200 m
	Reduced occurrence of poultry disease outbreaks	<u>Poultry Project no. 4:</u> Improve Poultry Health management standards	DAPH - Monitoring	Rs 66 m
	Improve performance standards		Private sector /DAPH	

Table A 2.5 National Livestock Development Plan (6/6)

Policy	Targets	Projects	Main Executor	Budget
	Reduce irrational use of veterinary drugs		DAPH / Private sector	
	Improve poultry disease diagnostic facility		DAPH	
	Auditing and Monitoring at processing	Poultry Project no. 5: Programs to improve quality and safety of poultry products	DAPH	Rs 600 m
	Improved service facility			
National acceptance of multifaceted benefits of smallholder livestock production	Conduct ___ multi media campaign programs	Dairy Project no. 3: Milk Marketing Program	DAPH NCP – Livestock Exhibitions – Two numbers	Rs 740 m Rs 1.0 m
	Reduced environment related problems	Poultry Project no. 6: Environment issues related to poultry	M/LD Establishment of Biogas units –	Rs 15 m Rs 2.5m
	Annual 10% increase in employment avenues in the poultry sector	Poultry Project no 9: Create more employment opportunities in the poultry sector	DAPH – M/LD NWP – Motivation of young generation to livestock farming – 36 programs	Rs 1205 m Rs 1.0 m
	Annual 10% increase in investments in the poultry sector	Poultry Project no. 10: Encourage investments in the poultry sector	Private sector	Rs 655 m
	10% annual increase in export of poultry products	Poultry Project no. 11: Promote export and value addition in poultry	M/LD	

Table A 2.6 Investment Program in Dairy Sector

Program	(Rs Million)	2011	2012	2013	2014	2015	Total
1. Production System Based Dairy Farms Development							
1.1. Small scale dairy farm development		462	616	770	1,232	770	3,850
1.2. Medium scale dairy farm development without grower system		216	381	673	573	332	2,175
2. Animal feed resources development and nutritional promotion		18	33	37	37	25	150
3. Milk Marketing		50	466	528	372	253	1,669
4. Breeding (upgrading & genetic improvement)		200	305	600	505	390	2,000
5. Health management and disease control		305	405	365	395	430	1,900
6. Veterinary Services Improvement		644	1,094	1,294	1,294	894	5,220
7. Research		20	27	33	40	20	140
8. Man Power Development		40	155	290	205	30	720
9. Institutional Development		4	8	110	212	56	390
Grand Total		1,959	3,490	4,700	4,865	3,200	18,214

Source: Ministry of Livestock and Rural Community Development

Table A 2.7 Expected Annual Milestones in Dairy Sector

Item	Present	1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
Dairy Farmer Families	262,000	263,560	266,160	269,410	272,660	275,000
Total neat cattle and buffaloes(Million)	1.49	1.464	1.404	1.329	1.254	1.2
Milking animals	240,000	262,000	282,000	307,000	332,000	350,000
Fresh milk collecting points	2,895	3,000	3,500	4,125	4,750	5,200
Milk cooling stations	232	243	260	280	293	300
Average milk yield / cow (L)	2.83	3.10	3.70	4.60	5.50	6.00
Large scale processing facilities	13	13	14	14	14	15
Small scale processing facilities	2,295	2,315	2,335	2,360	2,435	2,500
Support service units Dept of AP & H	293	355	425	510	595	660

Source: Ministry of Livestock and Rural Community Development

Table A 2.8 On-going Irrigation Project

S.No.	The Project	TEC (Rs.m.)	Location	Completed by	Financial Support by
1	Daduru-Oya Reservoir Project	6,200	Puttalam, Kurunagala	2014	GOSL
2	Moragahakanda and Kaluganga Reservoirs Development Project	62,000	Matale	2015	SFD, FAED, OPEC
3	Rambukkan Oya Project	2,500	Ampara	2013	GOSL
4	Mahaweli System B (LB) Development Project	16,000	Batticaloa, Trincomalee	2013	GOSL
5	Dam Safety & Water Resources Planing Project (DSWRPP)	7,749	Whole Island	2015	World Bank
6	Gurugal Oya Project	400	Kandy	2014	GOSL
7	Lower Malwathu Oya Reservoir Project	10,000	Mannar	2016	GOSL
8	Restoration of Wilakandiya	81	Badulla	2014	GOSL
9	Kaluganga Reservoir Project	10,000	Ratnapura	2017	Israil
10	Rehabilitation of Theniyankulam Tank	100	Mullaitivu	2012	JICA
11	Rehabilitation of Akkarayan Kulam Tank	300	Kilinochchi	201	JICA
12	Rehabilitation of Kanagarayankulam Tank, Eropothana Tank, Mahakachchikodiya Tank & Kalmadu Tank	154	Vavuniya	2012	World Bank
13	Rehabilitation of Periyamadu Tank, Periyapandiviichchan Tank, Adampankulam Tank & Mullikulam Tank	312	Mannar	2012	World Bank
14	Rehabilitation of Kariyalai Nagapaduwan Tank & Kanagambigai Kulam Tank	77	Kilinochchi	2012	World Bank
15	Rehabilitation of Iyankulam Tank, Palayamururukandy Tank, Mallavi Tank, Therankandal Tank, Kodaikaddiya Kulam Tank & Aampalapperumal Kulam Tank	280	Mullaitivu	2012	World Bank
16	Rehabilitation of Piramanthal Aru Tank & Vanneri Kulam Tank	80	Kilinochchi	2012	World Bank
17	Rehabilitation of Muthuiyankaddu, Vavunikulam & Viswamadu Lift Irrigation Schemes	71	Mullaitivu	2012	ADB
18	Rehabilitation of Mallikai Kulam Tank, Chemamadu Tank, Kombuvaitthakulam Tank, Velankulam Tank, Aliyamaruthamadu Tank & Periyathampanai Tank	253	Vavuniya	2012	ADB
19	Rehabilitation of Puthumurippu Kulam Tank	118	Kilinochchi	2012	ADB
20	Rehabilitation of Vavunikulam Tank, Maruthan Kulam Tank, Kalvilan Kulam Tank, Panankamam Kulam Tank, Kollavilan Kulam Tank, Viswamadu Kulam Tank, Muruthamadu Tank, Udayarkaddu Tank, Madawalasinggam Kulam Tank & Thannimurippu Kulam Tank	1,613	Mullaitivu	2013	ADB

Table A 2.9 New Irrigation Project

S.No.	The Project	TEC (Rs.m.)	Location	Completed by
1	Gin/Nilwala Diversion Project	55,125	Galle, Matara	2017
2	Ma Oya Diversion	18,000	Puttalam	2017
3	System B (Maduru Oya)	22,500	Baticalao	2018
4	System L (Weli Oya)	6,750	Anuradhapura, Vavuniya, Mulativu	2018
5	Uma Oya Multipurpose Development Project	62,626	Moneragala	2015
6	Yan Oya Reservoir Project	9,152	Trincomalee	2015
7	Thalpitigala Reservoir Project	5,500	Badulla	2015
8	Kivul Oya Reservoir Project	6,000	Vavuniya/Mullaitivu	2017
9	Nakkala Reservoir Project	10,500	Moneragala	2017
10	Kaudulla Extension Project	370	Polollaruwa	2014
11	Digili Oya Reservoir Project	3,000	Matara	2017
12	Morana Reservoir Project	1,700	Badulla	2016
13	Kalugal Oya Reservoir Project	1,517	Ampara	2015
14	Wandurapeenu Ela Reservoir Project	1,500	Kurunegala	2016
15	Basnagoda Reservoir Project	2,500	Gampaha	2016
16	Ellawewa Reservoir Project	470	Rathnapura	2015
17	Udawathura Reservoir Project	40	Matara	2014
18	Gonagalatenna Tank	55	Kandy	2014
19	Gin Nilwala Diversion Project	55,125	Galle/Matara	2017
20	Heda Oya Development Project	4,200	Monaragala/Ampara	2017
21	Urawa Diversion	2,200	Matara	2017

Table A 2.10 Provincial Development Policy and Programs (1/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
1	Northern Province	Five-Year Investment Program, 2009-2013	<p>Major Policies:</p> <ol style="list-style-type: none"> 1. The Mahinda Chintana: Vision for a New Sri Lanka – A Ten Year Horizon Development Framework 2006-2016. 2. Along with rehabilitation, development goals have to be caught up in order to be on par with other provinces. 3. The major objective of the Province is to contribute to a high growth while reducing the poverty level, by making availability of infrastructure facilities, and functioning of the productive sectors result in the poverty reduction. <p>Development priorities:</p> <ol style="list-style-type: none"> 1. Finding a durable solution to the displacement 2. Restoring the livelihood 3. Reactivating services and facilities 4. Rehabilitation of infrastructure facilities 5. Development of human capacities 6. Targeting at vulnerable groups 7. Establishment of good governance <p>Key Production Sector objectives:</p> <p>Agriculture</p> <ol style="list-style-type: none"> 1. Food and nutritional security 2. Revitalize crop cultivation for restoring peasants livelihood 3. Sustainable production and productivity enhancement 4. Market-led crop development 5. Seed and plating material production 6. Ecological concern plant protection development 7. Appropriate farm mechanization 			In the first three years, the emphasis is on social infrastructure and social services which has a direct impact on the poverty situation. The next two years have an emphasis on the economic infrastructure and production sector which has a direct bearing on economic growth. It is hoped that more foreign assistance will be channelled through the Provincial Council to finance the Investment Programme.
				Agriculture	308.6	

Table A 2.10 Provincial Development Policy and Programs (3/15)

Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
			Sector	Allocation (Rs Mil)	
		<p>schemes.</p> <p>4. Improve the existing systems of operation and maintenance, through participatory approaches and establishment of viable funding mechanism.</p> <p>5. Improve management of minor or small schemes, through awareness, education and a farmer funding mechanism to support operation and maintenance and increase productivity. Assist in farmer financing of pumps or wells to enhance productivity from minor schemes.</p> <p>Industry</p> <p>1. To have generated rural Employment and income</p> <p>2. To have created efficient and effective Industrial base through private sector development for poverty alleviation</p> <p>3. To have provided necessary Infrastructure and Institutional Inputs</p> <p>4. To have provided incentives for Exports Development and foreign Investment</p> <p>5. To have Developed Human resource and Technology for Industrial Development</p>	Industry	824.4	
2. Eastern Province	Five-Year Development Plan, 2012-2016	<p>1. Moving from subsistence crop farming to commercial one by attaining an annual growth rate with more than 10%:</p> <ul style="list-style-type: none"> - Increasing production and productivity of rice, OFCs, vegetables, fruits and perennial tree crops and ensuring availability of qualified agro-inputs, - Strengthening and upgrading of related institutions, reforming on-going programmes, and remodelling and operationalize of farmer 	Agriculture	4,213	The crop sector development plan is based on the vision of the Eastern Province; The East to be the best province in human values, governance and quality of life.

Table A 2.10 Provincial Development Policy and Programs(5/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
			tourism, and - Promoting participatory approach in new/re planting, conserving and utilizing forests. 5.1 Roads to offer convenient and comfortable riding qualities and eased connectivity for development: - Improving link roads, - Improving local roads, and - Use of appropriate technology for effective usage of available resources. 5.2 Provision of access to safe drinking water for all: - Minimizing Leakages and non -revenue connections, - Stabilizing ground water table in rural areas, - Provision of common wells in rural areas, - Supplying water from perennial sources (rivers) , - Developing rural water supply from neighbouring sources for coastal community, and - Developing minor water supply schemes using ground water from wells. 5.3 Making available an interrupted reliable and efficient electricity supply : - Reducing transmission losses to minimum , - Generating power using renewable energy sources, and - Generating power using conventional way in the Eastern Province. 5.4 Providing efficient, reliable information and communication system in order to support the socio economic development :	Housing &Infra structure	18,500	
					7,020	
					5,120	
					3,000	

Table A 2.10 Provincial Development Policy and Programs (7/15)

Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
			Sector	Allocation (Rs Mil)	
		<ul style="list-style-type: none"> - Promoting Easter Tourism package, - Developing human resource for tourism, - Creating awareness to people of the East about the tourism industry. <p>9. Enhancing the health status of the people of the province:</p> <ul style="list-style-type: none"> - Ensuring the delivery of comprehensive health services which reduce the disease and promote health, - Empowering communities towards more active participation in maintaining their health, - Improving the management of human resources for health, - Improving health financing , resource allocation and utilization, and - Strengthening stewardship and management functions of the health system. <p>10. Providing opportunities to people of the province to participate and excel in sports by providing facilities and encouraging mass participation:</p> <ul style="list-style-type: none"> - Strengthening sports clubs, - Organizing sports events, - Capacity building of Sport service officers, and - Provision of sport facilities. <p>11. Enhancing the quality of life of the people of the province by creating a knowledge-based society through improved quality, equitability and responsiveness of education:</p> <ul style="list-style-type: none"> - Promoting equitable opportunities in access, participation, achievement and outcomes in basic, secondary and vocational education, - Improving the quality of primary and secondary education, 	Health	5592	
			Human Resource development	1538	
			Education	6970	

Table A 2.10 Provincial Development Policy and Programs (9/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
			<ul style="list-style-type: none"> - Creation of off farm income generating opportunities. 3. Preventing market oligopoly : - Facilitation of competitive marketing 4. Maintaining rural road net work (C & D roads) in good condition: 5. Facing adverse impacts of national trade and economic policies: <ul style="list-style-type: none"> - Human resource development 6. Diversification of income from cereal farming to other agricultural crops and off farm activities: <ul style="list-style-type: none"> - Intensive crop cultivation, and - Employment generation. 7. Increasing the agricultural productivity: <ul style="list-style-type: none"> - facilitation of input supply - soil fertility improvement - Provision of technical guidance 8. Maintaining the irrigation system with good water management: <ul style="list-style-type: none"> - Renovation of tanks and irrigation canals, and - Water management with farmer participation. 9. Participatory planning of development activities: 10. Equitable development throughout the province: 11. Education with quality and equitable in performance: <ul style="list-style-type: none"> - Improvement of education administration, and - Facilities for pre- schooling and primary education. 12. Industrial development for optimum use of 	<ul style="list-style-type: none"> Agriculture & Livestock Infrastructure Human Resource Development Agriculture and rural industry Agriculture Irrigation Education Industry 	<ul style="list-style-type: none"> 80 720.65 18.8 68.8 171.6 645.9 151.97 2.5 	<ul style="list-style-type: none"> Creation of buying and selling points Continuous dialog between relevant ministries Holistic approach with the participation of relevant agencies and institutions. Special attention for the northern part of the province in future development programmes University of Rajarata to

Table A 2.10 Provincial Development Policy and Programs (10/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
			<p>resources in the province :</p> <ul style="list-style-type: none"> - Identification of resources and making inventory of them - Encouraging joint ventures with foreign small scale industrialists, and - Service support for indigenous crafts and domestic industries. <p>13. Implementing preventive and curative measures to overcome health hazards :</p> <ul style="list-style-type: none"> - Supply of safe drinking water, - Provision of toilet facilities, - Provision of human resources, - Strengthening ayurvedic systems of treatments, and - Improving nutritional standards of children and mothers. <p>14. Accepting NGOs as partners in Development :</p> <p>15. Human resource development to cater future demand :</p> <p>16. Development of dairy farming :</p> <ul style="list-style-type: none"> - Increasing the productivity of indigenous cattle - Increasing the availability of food for cattle - Reorganization and improvement of milk collecting centres. <p>17. Protecting and conserving the forests :</p> <ul style="list-style-type: none"> - Changing the attitudes of people - Strict law enforcement - Community participation of tree replanting. <p>18. Exploiting the aquatic resources for economic development :</p> <ul style="list-style-type: none"> - Development of fresh water fish industry <p>19. Implementation of cascade based integrated development programmes</p>	Health	11.79	<p>become the growth engine of Rajarata</p> <p>Provincial Department of Health has its own development plan for 2002-2012.</p>
			<p>16. Development of dairy farming :</p> <ul style="list-style-type: none"> - Increasing the productivity of indigenous cattle - Increasing the availability of food for cattle - Reorganization and improvement of milk collecting centres. 	Livestock	14.82	
			<p>17. Protecting and conserving the forests :</p> <ul style="list-style-type: none"> - Changing the attitudes of people - Strict law enforcement - Community participation of tree replanting. 	Forest & Environment	1.44	
			<p>18. Exploiting the aquatic resources for economic development :</p> <ul style="list-style-type: none"> - Development of fresh water fish industry 	Fishery	93.2	

Table A 2.10 Provincial Development Policy and Programs (11/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
4	Uva-Badulla District	Seven-Year Development Plan 2010-2016	<p>1. Priority for Rehabilitation & upgrading of existing road network in the district and more attention for pedestrians:</p> <ul style="list-style-type: none"> - Establishment of systematic and regular, maintenance of roads, - Upgrading of identified roads, and - Capacity development of the institutions involved in road construction. <p>2. Implementation of systematic water supply programme while protecting the water sources in the district:</p> <ul style="list-style-type: none"> - Implementation of rural water supply schemes, - Construction of shallow wells, - Construction of Tube wells and rehabilitation of ones, and - Rain water harvesting <p>3. Catering the needs of electricity of district through National grid and by establishing mini power generation stations:</p> <ul style="list-style-type: none"> - Implementation of electricity line extension, and - Implementation of alternative power generation. <p>4.1 Provision of quality health service to the people:</p> <p>4.2 Uplifting the indigenous medical system:</p> <p>4.3 Promotion of private sector investment in health sector:</p> <ul style="list-style-type: none"> - Improvement of mouth hygiene of school children, - Upgrading the nutritional status of pregnant mothers and infants, - Control of non- communicable diseases, and - Improvement of sanitary facilities in 	<p>Housing and infrastructure</p> <p>Housing and infrastructure</p> <p>Housing and infrastructure</p> <p>Health</p>	<p>16,921</p> <p>645</p> <p>810</p> <p>319</p>	<p>The roads identified for rehabilitation in the five development programme will be handled by the Provincial Council and the Rural/ agricultural roads will be handled by the Pradeshiyasabha.</p> <p>29.6 % of the total population of the district do not have access for drinking water.</p>

Table A 2.10 Provincial Development Policy and Programs (12/15)

Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
			Sector	Allocation (Rs Mil)	
		undeveloped areas.			
		5. Ensuring the right of free education for all children in the district and expanding the opportunities for primary and secondary education: - Schooling of all children in that stage and minimizing half way school leavers, - Capacity development of teachers, and - Uplifting pre-school education.	Education	177	
		6. Increasing the productivity of the one unit of water in the existing and future irrigation schemes : - Development of rural irrigation schemes, and - Development of catchment areas of tanks.	Irrigation	638	
		7. Transforming the subsistence agriculture into market based agriculture and increasing the food security in line with the Mahinda Chinthana Development policy: - Production of seed and planting material, - Expansion of floriculture & horticulture, - Introduction of post harvest technology, - Home garden development, and - Increasing the productivity of paddy cultivation.	Agriculture	232.78	
		8. Establishment of large, medium, small and domestic level industries based on new technology: - Initiation of credit schemes to start new industries - Establishment of fund for development of industries - Capacity development of entrepreneurs - Incentives for private sector.	Industry	483.47	
		9. Livelihood development to alleviate poverty :	Social	4562	

Table A 2.10 Provincial Development Policy and Programs (13/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
			<ul style="list-style-type: none"> - Implementation of livelihood development projects, - Skill development of unemployed youth, - Promotion of savings, and - Micro credit. 			
			<p>10. Increasing the availability of livestock products in the country at competitive price and equitable distribution of economic & social benefits among the community involved in livestock farming:</p> <ul style="list-style-type: none"> - Producing high productive livestock population, - Improving the quality of livestock products through updated modern techniques, - Increasing the availability of concentrated feed, and - Effective control of animal diseases. 	Livestock	201	Livestock development is one of the strategies for increasing the per capita income by two fold.
			<p>11. Developing the infrastructure and other facilities of plantation sector in order to acquire a satisfactory behaviour of socio economic indicators in the district:</p> <ul style="list-style-type: none"> - Road development, - Drinking water supply, and - Child care. 	Agriculture	1,087	
			<p>12. Investment in tea smallholdings and export agriculture to exploit their maximum potentials:</p> <ul style="list-style-type: none"> - Replanting low yielding plantations, - Supply of good quality planting material, and - Expansion of extension services. 	Agriculture	549	
			<p>13. Environment protection and natural resource management is identified as an important factor in economic development:</p> <ul style="list-style-type: none"> - Minimizing environment pollution, 	Forest and Environment	263	

Table A 2.10 Provincial Development Policy and Programs (14/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
			<ul style="list-style-type: none"> - Natural resource management, and - Assessment of environmental effects. 			
5	Uva-Monaragala District	Proposed Development Programme, 2011-2012	<ol style="list-style-type: none"> 1. Making Sri Lanka a centre of commerce in Asia through provision of infrastructure facilities: <ul style="list-style-type: none"> - Improvement of road network. 2. Achieving 4% growth in agricultural sector: <ul style="list-style-type: none"> - Developing and rehabilitation of irrigation system. 3. Catering all power and energy requirements of the district: <ul style="list-style-type: none"> - Implementation of 126 electricity supply schemes. 4. Facilitating the objective of making Sri Lanka a centre of commerce in Asia through provision of drinking water: <ul style="list-style-type: none"> - Satisfying the needs of new consumers, - Improving the quality of drinking water, and - Assuring a continuous supply of drinking water to the consumers in the dry periods. 5. Assisting construction of houses for low income families in the district: <ul style="list-style-type: none"> - Provision of credit facilities for housing, - Capacity development of the individuals and agencies involved in house construction, and - Improving the quality of building construction industry. 6. Upgrading the living standards of the fisheries community: <ul style="list-style-type: none"> - Increasing the fish production by 25 %. 7. Making environment loving citizens in the district: <ul style="list-style-type: none"> - Capacity development of the teachers , students, officers, and members of the community based 	Housing & Infra structure Agriculture/Irrigation Housing & Infra structure Housing & Infra Structure Housing & Infra Structure Fisheries Forest & Environment	4,490 99.2 782 219 82.7 9.28 21.8	

Table A 2.10 Provincial Development Policy and Programs (15/15)

	Name of the province	Name of Development Plan	Major policies and focus points	Total Budget		Remarks
				Sector	Allocation (Rs Mil)	
			<ul style="list-style-type: none"> organizations, - Management of waste, - Expanding the forest cover, and - Protecting the Ozone Layer. 			
			<p>8. Welfare of the foreign service employees:</p> <ul style="list-style-type: none"> - Knowledge and skill development of the children of the employees. 	Social	1.7	
			<p>9. Developing medium and small scale industries:</p> <ul style="list-style-type: none"> - Developing the furniture and timber industry, - Developing textile industry, - Developing gem industries, - Developing traditional industries, and - Empowerment and capacity development of small and medium scale entrepreneurs. 	Industry	125.7	
			<p>10. Increasing production & productivity of plantation crops (Coconut, rubber & Sugar cane):</p> <ul style="list-style-type: none"> - New and replanting programmes, - Provision of credit facilities, and - Crop Diversification. 	Agriculture	227.63	
			<p>11. Establishment of people friendly transport system:</p> <ul style="list-style-type: none"> - Quality bus service for school children, - New bus destinations, and - Supply of busses to CTB depots. 	Transport	55.7	
			<p>12. Minimizing damages due to disasters:</p> <ul style="list-style-type: none"> - Minimizing effects of drought conditions, and - Awareness programmes for people. 	Social	18.67	
			<p>13. Improving labour relations and welfare:</p> <ul style="list-style-type: none"> - Minimizing accidents and diseases at work, - Developing positive attitudes, - More employment opportunities for Youth. 	Social	9.13	
			<p>14. Protecting traditional heritage for future Generation:</p> <ul style="list-style-type: none"> - Improving the aesthetic skills of the people, and - Protection of national heritage. 	Social	13.76	

Table A 3.1 Province Specific Development Grant (PSDG) - 2005 to 2010(1/5)

Northern Province

No.	Description	Rs.Million											
		2005 (NEP)		2006 (NEP)		2007		2008		2009		2010	
		Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure
1	Economic Infrastructure Dev.	240.00	208.27	437.00	177.00	170.00	83.00	224.60	124.52	243.00	323.70	395.00	287.09
1.1	Transport	-	-	-	-	-	-	6.40	-	2.00	-	4.00	-
1.2	Land Development	-	-	-	-	-	-	6.40	2.97	6.00	9.99	6.00	7.00
1.3	Roads	240.00	208.27	417.00	177.00	155.00	83.00	192.50	121.55	200.00	313.71	350.00	280.09
1.4	Rural Electrification	-	-	20.00	-	15.00	-	19.30	-	35.00	-	35.00	-
2	Social Infrastructure Dev.	440.00	400.72	928.00	724.30	520.50	126.10	309.30	386.02	821.00	1,048.24	1,931.40	1,550.81
2.1	Education - WB (ESSDP)	-	-	110.00	94.20	55.00	50.00	110.00	121.05	208.00	185.75	300.00	299.99
	- SIRUP	200.00	162.64	210.00	194.60	-	-	-	-	-	-	-	-
	- CF	-	-	40.00	-	150.00	11.80	18.10	25.29	100.00	126.99	125.00	147.21
2.2	Health - WB (HSDP)	-	-	201.00	206.00	100.50	30.40	100.50	166.56	127.00	355.50	1,081.40	773.34
	- SIRUP	200.00	219.51	260.00	200.00	-	-	-	-	-	-	-	-
	- CF	-	-	52.00	-	175.00	17.90	35.80	47.82	176.00	197.17	175.00	153.50
2.3	Indigenous Medicine	15.00	8.20	20.00	12.60	12.50	8.00	19.30	9.07	15.00	24.34	30.00	27.24
2.4	Social Services	15.00	6.38	20.00	7.90	12.50	3.80	12.80	11.09	100.00	85.13	100.00	69.84
2.5	Probation and Childcare	10.00	3.99	15.00	9.00	15.00	4.20	12.80	5.14	75.00	73.36	100.00	79.69
2.6	Housing	-	-	-	-	-	-	-	-	20.00	-	20.00	-
3	Industries Dev.	-	-	65.00	22.10	25.00	5.00	15.00	5.09	40.00	6.12	30.00	9.30
3.1	Tourism	-	-	-	-	-	-	-	-	20.00	-	10.00	-
3.2	Fisheries	-	-	-	-	10.00	-	6.00	-	8.00	-	8.00	-
3.3	Industries	-	-	65.00	22.10	15.00	5.00	9.00	5.09	12.00	6.12	12.00	9.30
4	Agriculture Dev.	45.00	29.72	55.00	43.30	30.00	41.30	43.80	75.97	178.00	219.09	185.00	226.71
4.1	Agriculture	-	-	-	-	-	25.20	14.90	35.41	20.00	92.35	25.00	89.13
4.2	Irrigation	30.00	26.74	40.00	31.40	20.00	7.60	19.30	6.86	128.00	107.07	125.00	108.69
4.3	Livestock Development	15.00	2.98	15.00	11.90	10.00	8.50	9.60	33.70	30.00	19.67	35.00	28.89
5	Community Dev.	25.00	-	32.00	6.80	81.00	24.60	28.40	9.00	108.00	75.85	124.00	165.83
5.1	Community Development	25.00	-	25.00	-	12.50	-	6.00	-	10.00	-	7.00	-
5.2	Rural Development	-	-	-	-	10.00	-	12.80	-	20.00	31.76	30.00	28.46
5.3	Sports	-	-	7.00	6.80	7.50	5.00	9.60	9.00	5.00	7.49	10.00	7.27
5.4	Cultural Affairs	-	-	-	-	-	-	-	-	8.00	-	10.00	-
5.5	Estate Infrastructure Development	-	-	-	-	-	-	-	-	-	-	-	-
5.6	Coperatives	-	-	-	-	-	-	-	-	5.00	36.60	7.00	22.74
5.7	Local Government including Solid waste Mgt.	-	-	-	-	51.00	19.60	-	-	60.00	-	60.00	107.36
6	Other	-	-	220.00	44.20	120.00	87.40	-	-	-	-	-	-
7	Regional Development Initiatives	-	-	-	-	-	-	150.00	-	100.00	-	75.00	-
8	Flexible Amount	-	-	-	-	-	-	64.20	6.62	100.00	69.07	82.30	34.94
	Sub Total	750.00	638.71	1,737.00	1,017.70	946.50	367.40	835.30	607.22	1,590.00	1,742.06	2,822.70	2,274.68
9	Special Projects	-	-	-	-	-	-	634.00	134.84	287.40	147.35	272.10	272.09
9.1	UNICEF	-	-	-	-	-	-	324.00	125.84	95.40	135.91	201.10	238.30
9.2	Pro Poor Rural Development (JBIC)	-	-	-	-	-	-	-	-	-	-	-	-
9.3	Navodya	-	-	-	-	-	-	10.00	9.00	12.00	11.45	25.00	25.47
9.4	NECORD	-	-	-	-	-	-	300.00	-	180.00	-	-	-
9.5	ESSDP	-	-	-	-	-	-	-	-	-	-	-	-
9.6	ADB	-	-	-	-	-	-	-	-	-	-	-	-
9.7	Provincial Road Project	-	-	-	-	-	-	-	-	-	-	-	-
9.8	UNFPA Programme	-	-	-	-	-	-	-	-	-	-	46.00	8.32
9.9	NNIP	-	-	-	-	-	-	-	-	-	-	-	-
Total		750.00	638.71	1,737.00	1,017.70	946.50	367.40	1,469.30	742.06	1,877.40	1,889.41	3,094.80	2,546.77

Table A 3.1 Province Specific Development Grant (PSDG) - 2005 to 2010 (2/5)
Eastern Province

Rs.Million													
No.	Description	2005 (NEP)		2006 (NEP)		2007		2008		2009		2010	
		Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure
1	Economic Infrastructure Dev.	240.00	208.27	437.00	177.00	170.00	85.50	313.70	146.36	170.00	119.53	215.00	109.22
1.1	Transport	-	-	-	-	-	-	8.50	-	20.00	-	15.00	-
1.2	Land Development	-	-	-	-	-	-	8.50	2.36	10.00	4.98	5.00	3.32
1.3	Roads	240.00	208.27	417.00	177.00	155.00	85.50	271.30	144.00	100.00	114.55	150.00	105.90
1.4	Rural Electrification	-	-	20.00	-	15.00	-	25.40	-	40.00	-	45.00	-
2	Social Infrastructure Dev.	440.00	400.72	928.00	724.30	520.50	184.60	368.40	330.18	764.00	546.39	1,198.60	1,102.73
2.1	Education - WB (ESDP)	-	-	110.00	94.20	55.00	69.00	110.00	123.22	208.00	125.98	285.00	244.99
	- SIRUP	200.00	162.64	210.00	194.60	-	-	-	-	-	-	-	-
	- CF	-	-	40.00	-	150.00	31.40	41.50	65.20	125.00	101.49	150.00	132.93
2.2	Health - WB (HSDP)	-	-	201.00	206.00	100.50	40.40	100.50	81.76	138.00	103.80	380.60	499.18
	- SIRUP	200.00	219.51	260.00	200.00	-	-	-	-	-	-	-	-
	- CF	-	-	52.00	-	175.00	26.50	57.20	34.50	175.00	128.69	250.00	150.64
2.3	Indigenous Medicine	15.00	8.20	20.00	12.60	12.50	5.50	25.40	11.50	40.00	56.00	40.00	25.55
2.4	Social Services	15.00	6.38	20.00	7.90	12.50	7.00	16.90	6.00	23.00	15.30	37.00	27.17
2.5	Probation and Childcare	10.00	3.99	15.00	9.00	15.00	4.80	16.90	8.00	35.00	15.13	41.00	22.27
2.6	Housing	-	-	-	-	-	-	-	-	20.00	-	15.00	-
3	Industries Dev.	-	-	65.00	22.10	25.00	4.70	25.50	9.45	45.00	10.70	42.00	11.00
3.1	Tourism	-	-	-	-	-	-	6.40	-	20.00	-	20.00	-
3.2	Fisheries	-	-	-	-	10.00	-	6.40	-	10.00	-	10.00	-
3.3	Industries	-	-	65.00	22.10	15.00	4.70	12.70	9.45	15.00	10.70	12.00	11.00
4	Agriculture Dev.	45.00	29.72	55.00	43.30	30.00	10.50	57.10	77.51	157.00	124.78	160.00	146.40
4.1	Agriculture	-	-	-	-	-	3.50	19.00	25.75	40.00	44.25	45.00	45.16
4.2	Irrigation	30.00	26.74	40.00	31.40	20.00	4.50	25.40	34.18	82.00	51.01	75.00	70.94
4.3	Livestock Development	15.00	2.98	15.00	11.90	10.00	2.50	12.70	17.58	35.00	29.52	40.00	30.30
5	Community Dev.	25.00	-	32.00	6.80	81.00	67.50	36.00	8.00	121.00	145.57	130.00	190.17
5.1	Community Development	25.00	-	25.00	-	12.50	-	6.40	-	21.00	-	20.00	-
5.2	Rural Development	-	-	-	-	10.00	-	16.90	-	15.00	7.56	25.00	51.91
5.3	Sports	-	-	7.00	6.80	7.50	2.50	12.70	8.00	20.00	22.70	25.00	27.17
5.4	Cultural Affairs	-	-	-	-	-	-	-	-	5.00	-	8.00	-
5.5	Estate Infrastructure Development	-	-	-	-	-	-	-	-	-	-	-	-
5.6	Cooperatives	-	-	-	-	-	-	-	-	-	3.21	2.00	3.59
5.7	Local Government including Solid waste Mgt.	-	-	-	-	51.00	65.00	-	-	60.00	112.10	50.00	107.50
6	Other	-	-	220.00	44.20	120.00	19.60	-	-	-	-	-	-
7	Regional Development Initiatives	-	-	-	-	-	-	150.00	-	100.00	-	75.00	-
8	Flexible Amount	-	-	-	-	-	-	85.80	0.10	90.00	50.53	94.10	113.60
	Sub Total	750.00	638.71	1,737.00	1,017.70	946.50	372.40	1,036.50	571.60	1,447.00	997.49	1,914.70	1,673.12
9	Special Projects	-	-	-	-	-	-	605.00	80.08	3,254.90	67.97	2,576.00	198.91
9.1	UNICEF	-	-	-	-	-	-	222.00	80.08	76.40	67.97	152.60	153.64
9.2	Pro Poor Rural Development (JBIC)	-	-	-	-	-	-	153.00	-	165.00	-	-	-
9.3	Navodya	-	-	-	-	-	-	15.00	-	22.50	-	22.50	-
9.4	NECORD	-	-	-	-	-	-	215.00	-	216.00	-	-	-
9.5	ESSDP	-	-	-	-	-	-	-	-	-	-	-	-
9.6	ADB	-	-	-	-	-	-	-	-	275.00	-	1,706.00	-
9.7	Provincial Road Project	-	-	-	-	-	-	-	-	700.00	-	603.00	-
9.8	UNFPA Programme	-	-	-	-	-	-	-	-	-	-	91.90	45.27
9.9	NNIP	-	-	-	-	-	-	-	-	1,800.00	-	-	-
	Total	750.00	638.71	1,737.00	1,017.70	946.50	372.40	1,641.50	651.68	4,701.90	1,065.46	4,490.70	1,872.03

Table A 3.1 Province Specific Development Grant (PSDG) - 2005 to 2010 (3/5)
North Western Province

Rs.Million													
No.	Description	2005		2006		2007		2008		2009		2010	
		Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure
1	Economic Infrastructure Dev.	307.00	240.84	513.00	260.00	403.50	134.90	616.80	481.15	359.00	301.90	461.00	447.12
1.1	Transport	7.00	4.71	8.00	1.30	5.00	4.40	17.70	10.00	6.00	7.31	6.00	5.90
1.2	Land Development	15.00	13.54	15.00	4.80	10.00	7.80	12.70	5.76	8.00	6.02	5.00	4.70
1.3	Roads	250.00	201.03	450.00	225.60	348.50	104.00	533.10	434.39	305.00	255.21	400.00	386.53
1.4	Rural Electrification	35.00	21.56	40.00	28.30	40.00	18.70	53.30	31.00	40.00	33.36	50.00	49.99
2	Social Infrastructure Dev.	434.00	414.62	898.00	722.00	918.50	449.00	685.10	611.53	722.00	535.00	749.10	687.30
2.1	Education - WB (ESDP)	-	-	110.00	100.70	110.00	78.80	110.00	101.65	158.00	138.14	160.00	164.85
	- SIRUP	165.00	159.18	160.00	178.80	-	-	-	-	-	-	-	-
	- CF	-	-	30.00	-	250.00	82.40	166.10	124.08	150.00	105.41	150.00	127.12
2.2	Health - WB (HSDP)	-	-	87.00	71.60	86.00	81.40	100.26	109.00	89.20	113.10	113.00	121.37
	- SIRUP	225.00	220.02	390.00	331.10	-	-	-	-	-	-	-	-
	- CF	-	-	70.00	-	400.00	165.30	227.80	251.03	245.00	162.19	250.00	224.12
2.3	Indigenous Medicine	13.00	11.45	15.00	11.40	20.00	12.20	42.10	5.96	15.00	6.65	20.00	13.95
2.4	Social Services	8.00	5.42	10.00	7.10	15.00	12.90	17.70	9.45	15.00	9.35	25.00	14.97
2.5	Probation and Childcare	7.00	6.27	10.00	8.80	15.00	9.80	17.70	3.52	15.00	12.26	16.00	5.92
2.6	Housing	16.00	12.28	16.00	12.50	22.50	6.20	17.70	15.58	15.00	11.81	15.00	15.00
3	Industries Dev.	23.00	20.60	30.00	28.10	55.00	29.40	79.90	26.45	64.00	56.00	80.00	56.50
3.1	Tourism	-	-	-	-	10.00	-	35.60	1.70	30.00	31.75	22.00	10.01
3.2	Fisheries	20.00	18.09	20.00	19.60	30.00	22.40	26.60	14.22	22.00	15.39	28.00	22.04
3.3	Industries	3.00	2.51	10.00	8.50	15.00	7.00	17.70	10.53	12.00	8.86	30.00	24.45
4	Agriculture Dev.	80.00	73.59	95.00	64.00	102.00	45.10	144.50	55.89	66.00	47.94	100.00	85.02
4.1	Agriculture	20.00	16.82	25.00	16.70	20.00	9.30	61.70	19.22	30.00	22.71	40.00	30.95
4.2	Irrigation	45.00	42.46	50.00	33.80	62.00	25.80	53.30	23.06	18.00	12.38	40.00	35.80
4.3	Livestock Development	15.00	14.31	20.00	13.50	20.00	10.00	29.50	13.61	18.00	12.85	20.00	18.27
5	Community Dev.	85.00	39.22	62.00	47.00	276.00	160.90	88.60	57.82	35.00	23.23	48.00	52.74
5.1	Community Development	20.00	4.62	20.00	8.20	20.00	8.70	17.70	10.23	6.00	5.10	5.00	5.00
5.2	Rural Development	40.00	27.82	25.00	25.00	53.00	2.90	35.50	24.72	2.00	3.73	10.00	16.73
5.3	Sports	20.00	4.78	7.00	6.30	20.00	9.50	17.70	11.45	10.00	8.38	10.00	9.96
5.4	Cultural Affairs	-	-	-	-	-	-	-	-	-	-	5.00	4.03
5.5	Estate Infrastructure Development	-	-	-	-	-	-	-	-	-	-	-	-
5.6	Coperatives	-	-	-	-	-	-	-	-	2.00	0.42	3.00	2.91
5.7	Local Government including Solid waste Mgt.	5.00	2.00	10.00	7.50	183.00	139.80	17.70	11.42	15.00	5.60	15.00	14.11
6	Other	83.00	82.56	192.00	139.10	141.00	165.00	-	-	-	-	-	-
7	Regional Development Initiatives	-	-	-	-	-	-	150.00	28.02	100.00	49.88	100.00	99.90
8	Flexible Amount	-	-	-	-	-	-	177.70	59.56	137.00	66.80	105.00	81.92
	Sub Total	1,012.00	871.43	1,790.00	1,260.20	1,896.00	984.30	1,942.60	1,320.42	1,483.00	1,080.75	1,643.10	1,510.50
9	Special Projects	-	-	-	-	-	-	75.00	44.30	47.10	31.81	50.00	42.27
9.1	UNICEF	-	-	-	-	-	-	40.00	25.16	2.10	-	-	-
9.2	Pro Poor Rural Development (JBIC)	-	-	-	-	-	-	-	-	-	-	-	-
9.3	Navodya	-	-	-	-	-	-	25.00	15.08	32.50	22.09	35.00	30.65
9.4	NECORD	-	-	-	-	-	-	-	-	-	-	-	-
9.5	ESSDP	-	-	-	-	-	-	10.00	4.06	12.50	9.72	15.00	11.62
9.6	ADB	-	-	-	-	-	-	-	-	-	-	-	-
9.7	Provincial Road Project	-	-	-	-	-	-	-	-	-	-	-	-
9.8	UNFPA Programme	-	-	-	-	-	-	-	-	-	-	-	-
9.9	NNIP	-	-	-	-	-	-	-	-	-	-	-	-
Total		1,012.00	871.43	1,790.00	1,260.20	1,896.00	984.30	2,017.60	1,364.72	1,530.10	1,112.56	1,693.10	1,552.77

Table A 3.1 Province Specific Development Grant (PSDG) - 2005 to 2010 (4/5)
North Central Province

No.	Description	Rs. Million											
		2005		2006		2007		2008		2009		2010	
		Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure
1	Economic Infrastructure Dev.	333.00	214.41	447.50	287.50	438.00	199.30	599.20	379.72	368.00	243.88	280.00	614.51
1.1	Transport	10.00	-	15.00	15.00	23.00	6.10	17.10	-	30.00	16.14	35.00	23.84
1.2	Land Development	3.00	-	5.00	0.10	5.00	2.70	17.10	5.88	8.00	7.57	10.00	9.12
1.3	Roads	290.00	188.33	387.50	226.80	370.00	175.50	530.80	324.61	300.00	168.02	200.00	549.48
1.4	Rural Electrification	30.00	26.08	40.00	45.60	40.00	15.00	34.20	49.23	30.00	52.15	35.00	32.07
2	Social Infrastructure Dev.	493.00	409.24	953.00	651.30	817.50	422.80	659.50	574.07	684.00	588.80	712.60	642.85
2.1	Education - WB (ESDP)	-	-	110.00	110.00	110.00	62.70	110.00	105.20	158.00	162.12	150.00	154.92
	- SIRUP	175.00	117.02	170.00	190.40	-	-	-	-	-	-	-	-
	- CF	-	-	30.00	-	250.00	106.30	173.60	170.19	150.00	105.96	175.00	159.02
2.2	Health - WB (HSDP)	-	-	90.00	64.70	90.00	57.60	90.00	137.34	121.00	121.17	116.60	119.67
	- SIRUP	280.00	270.66	418.00	252.00	-	-	-	-	-	-	-	-
	- CF	-	-	85.00	-	300.00	159.00	183.20	105.30	160.00	126.09	165.00	127.25
2.3	Indigenous Medicine	12.00	3.90	20.00	11.60	20.00	9.10	42.80	26.11	55.00	46.75	65.00	45.69
2.4	Social Services	5.00	3.55	7.00	5.30	15.00	7.40	17.10	8.77	10.00	6.97	15.00	12.52
2.5	Probation and Childcare	5.00	2.67	7.00	1.70	10.00	5.00	17.10	8.61	15.00	7.05	15.00	13.72
2.6	Housing	16.00	11.44	16.00	15.60	22.50	15.70	25.70	12.55	15.00	12.70	11.00	10.06
3	Industries Dev.	9.00	2.31	12.00	12.00	42.00	8.90	85.60	22.30	57.00	23.81	65.00	43.16
3.1	Tourism	-	-	-	-	-	-	34.20	0.23	25.00	3.29	30.00	15.42
3.2	Fisheries	9.00	2.31	12.00	12.00	12.00	8.40	17.10	10.39	12.00	10.10	15.00	13.49
3.3	Industries	-	-	-	-	30.00	0.50	34.30	11.68	20.00	10.42	20.00	14.25
4	Agriculture Dev.	61.00	14.50	100.00	30.70	120.00	40.70	119.90	42.16	100.00	108.53	240.00	150.16
4.1	Agriculture	10.00	5.66	40.00	8.90	40.00	11.60	51.40	13.16	35.00	26.61	45.00	38.31
4.2	Irrigation	42.00	8.42	45.00	18.30	60.00	22.70	51.40	20.47	40.00	74.65	160.00	95.95
4.3	Livestock Development	9.00	0.42	15.00	3.50	20.00	6.40	17.10	8.53	25.00	7.27	35.00	15.90
5	Community Dev.	37.00	8.40	37.00	29.80	250.50	96.90	94.10	53.52	117.00	41.33	136.00	113.02
5.1	Community Development	10.00	1.90	20.00	5.60	25.50	5.10	17.10	11.76	7.00	5.23	10.00	7.14
5.2	Rural Development	15.00	-	-	15.00	30.00	5.10	34.20	10.38	20.00	15.11	20.00	22.43
5.3	Sports	7.00	5.00	7.00	6.70	20.00	6.80	17.10	14.92	10.00	9.40	15.00	13.56
5.4	Cultural Affairs	-	-	-	-	10.00	6.90	17.10	11.86	15.00	7.20	16.00	11.17
5.5	Estate Infrastructure Development	-	-	-	-	-	-	-	-	-	-	-	-
5.6	Coperatives	-	-	-	-	-	-	-	-	5.00	4.11	5.00	4.80
5.7	Local Government including Solid waste Mgt.	5.00	1.50	10.00	2.50	165.00	73.00	8.60	4.60	60.00	0.28	70.00	53.92
6	Other	72.00	52.62	230.00	95.40	190.00	133.70	-	-	-	-	-	-
7	Regional Development Initiatives	-	-	-	-	-	-	150.00	49.84	100.00	212.92	100.00	91.64
8	Flexible Amount	-	-	-	-	-	-	170.20	176.94	100.00	151.60	125.17	-
	Sub Total	1,005.00	701.48	1,779.50	1,106.70	1,858.00	902.30	1,878.50	1,298.55	1,526.00	1,219.27	1,685.20	1,780.51
9	Special Projects	-	-	-	-	-	-	51.00	12.81	174.60	2.94	1,460.50	1,300.45
9.1	UNICEF	-	-	-	-	-	-	36.00	2.90	2.10	2.10	3.50	1.02
9.2	Pro Poor Rural Development (JBIC)	-	-	-	-	-	-	-	-	-	-	-	-
9.3	Navodya	-	-	-	-	-	-	15.00	9.91	22.50	0.84	25.00	20.33
9.4	NECORD	-	-	-	-	-	-	-	-	-	-	-	-
9.5	ESSDP	-	-	-	-	-	-	-	-	-	-	-	-
9.6	ADB	-	-	-	-	-	-	-	-	150.00	-	1,386.00	1,255.46
9.7	Provincial Road Project	-	-	-	-	-	-	-	-	-	-	-	-
9.8	UNFPA Programme	-	-	-	-	-	-	-	-	-	-	46.00	23.64
9.9	NNIP	-	-	-	-	-	-	-	-	-	-	-	-
Total		1,005.00	701.48	1,779.50	1,106.70	1,858.00	902.30	1,929.50	1,311.36	1,700.60	1,222.21	3,145.70	3,080.96

Table A 3.1 Province Specific Development Grant (PSDG) - 2005 to 2010 (5/5)
Uva Province

Rs. Million													
No.	Description	2005		2006		2007		2008		2009		2010	
		Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure	Allocation	Expenditure
1	Economic Infrastructure Dev.	340.00	242.37	365.00	221.40	245.00	127.90	344.30	214.13	427.00	511.41	368.00	350.40
1.1	Transport	10.00	0.08	10.00	-	15.00	-	9.80	3.35	10.00	4.46	10.00	8.09
1.2	Land Development	-	-	-	-	5.00	3.10	9.80	3.71	7.00	6.32	8.00	3.56
1.3	Roads	290.00	212.98	315.00	195.90	185.00	106.40	305.00	207.07	360.00	463.79	300.00	297.14
1.4	Rural Electrification	40.00	29.31	40.00	25.50	40.00	18.40	19.70	-	50.00	36.84	50.00	41.61
2	Social Infrastructure Dev.	485.00	342.10	729.00	426.00	882.50	444.30	369.50	423.36	642.00	610.29	695.70	732.17
2.1	Education - WB (ESDP)	-	-	110.00	46.90	110.00	65.40	110.00	127.16	158.00	193.51	160.00	145.05
	- SIRUP	183.00	141.08	190.00	132.00	-	-	-	-	-	-	-	-
	- CF	-	-	35.00	-	270.00	160.10	58.20	112.46	175.00	137.72	200.00	224.98
2.2	Health - WB (HSDP)	-	-	85.00	39.60	85.00	50.80	85.00	89.17	109.00	112.55	110.70	153.00
	- SIRUP	237.00	166.95	190.00	180.60	-	-	-	-	-	-	-	-
	- CF	-	-	70.00	-	350.00	152.50	67.20	70.19	135.00	132.62	150.00	148.40
2.3	Indigenous Medicine	20.00	9.97	15.00	9.00	25.00	7.50	19.70	10.18	30.00	16.27	35.00	28.24
2.4	Social Services	15.00	7.05	10.00	10.00	15.00	3.10	9.80	9.11	10.00	7.16	15.00	11.48
2.5	Probation and Childcare	14.00	9.05	8.00	7.90	10.00	0.90	9.80	5.09	15.00	8.96	15.00	11.62
2.6	Housing	16.00	8.00	16.00	-	17.50	4.00	9.80	-	10.00	1.50	10.00	9.40
3	Industries Dev.	5.00	-	10.00	-	20.00	1.10	49.50	10.28	64.00	25.06	65.00	90.06
3.1	Tourism	5.00	-	10.00	-	10.00	-	24.60	1.19	30.00	9.65	35.00	26.30
3.2	Fisheries	-	-	-	-	-	-	5.20	4.23	20.00	11.38	20.00	14.27
3.3	Industries	-	-	-	-	10.00	1.10	19.70	4.86	14.00	4.02	10.00	49.49
4	Agriculture Dev.	85.00	53.32	85.00	60.40	95.00	45.30	68.80	40.60	170.00	93.29	170.00	189.31
4.1	Agriculture	15.00	9.00	20.00	12.90	30.00	9.60	34.40	14.64	45.00	20.87	60.00	66.57
4.2	Irrigation	50.00	28.17	40.00	32.20	40.00	22.00	19.70	15.57	75.00	40.43	60.00	82.24
4.3	Livestock Development	20.00	16.15	20.00	15.30	25.00	13.70	14.70	10.39	50.00	31.99	50.00	40.50
5	Community Dev.	86.00	41.71	69.00	26.40	274.00	59.70	63.80	75.90	110.00	55.00	173.00	162.42
5.1	Community Development	15.00	8.64	15.00	9.30	22.00	10.50	9.80	8.24	28.00	24.58	30.00	58.44
5.2	Rural Development	50.00	20.75	30.00	11.30	60.00	5.00	24.60	2.35	30.00	5.89	40.00	34.52
5.3	Sports	6.00	5.90	7.00	4.90	12.00	5.10	9.80	8.39	12.00	4.41	20.00	18.24
5.4	Cultural Affairs	-	-	-	-	-	-	-	-	-	-	8.00	4.51
5.5	Estate Infrastructure Development	10.00	4.78	10.00	-	15.00	-	9.80	4.49	5.00	1.57	25.00	-
5.6	Coperatives	-	-	-	-	-	-	-	-	5.00	1.15	10.00	14.88
5.7	Local Government including Solid waste Mgt.	5.00	1.64	7.00	0.90	165.00	39.10	9.80	52.43	30.00	17.39	40.00	31.83
6	Other	-	-	232.00	18.80	177.50	93.00	-	-	-	-	-	-
7	Regional Development Initiatives	-	-	-	-	-	-	150.00	24.64	100.00	39.30	100.00	99.00
8	Flexible Amount	-	-	-	-	-	-	98.40	55.46	100.00	18.31	240.00	15.58
	Sub Total	1,001.00	679.50	1,490.00	753.00	1,694.00	771.30	1,144.30	844.37	1,613.00	1,352.65	1,811.70	1,638.94
9	Special Projects	-	-	-	-	-	-	772.00	374.17	724.70	459.08	2,546.50	126.95
9.1	UNICEF	-	-	-	-	-	-	71.00	8.37	14.70	14.38	46.50	13.15
9.2	Pro Poor Rural Development (JBIC)	-	-	-	-	-	-	596.00	350.55	390.00	377.46	-	-
9.3	Navodya	-	-	-	-	-	-	15.00	3.06	20.00	12.37	25.00	23.75
9.4	NECORD	-	-	-	-	-	-	-	-	-	-	-	-
9.5	ESSDP	-	-	-	-	-	-	90.00	12.19	125.00	54.87	125.00	90.05
9.6	ADB	-	-	-	-	-	-	-	-	175.00	-	2,350.00	-
9.7	Provincial Road Project	-	-	-	-	-	-	-	-	-	-	-	-
9.8	UNFPA Programme	-	-	-	-	-	-	-	-	-	-	-	-
9.8	NNIP	-	-	-	-	-	-	-	-	-	-	-	-
	Total	1,001.00	679.50	1,490.00	753.00	1,694.00	771.30	1,916.30	1,218.54	2,337.70	1,811.73	4,358.20	1,765.89

Table A 3.2 Employment Status by District based on Results of Sri Lanka Labor Force Survey 2004

(1) Employed and Unemployed Population, and Employed Population by Major Industry Group

District	Employed and Unemployment Population						Employed Population by Major Industry Group							
	Employed (person)	Un-employed (person)	Total (person)	Employed (%)	Un-employed (%)	Total (%)	Agriculture (person)	Industry (person)	Services (person)	Total (person)	Agriculture (%)	Industry (%)	Services (%)	Total (%)
Jaffna	165,371	17,780	183,151	90.3	9.7	100.0	63,572	32,824	68,975	165,371	38.4	19.8	41.7	100.0
Kilinochchi	n.a.	n.a.	-	91.5	8.5	100.0	n.a.	n.a.	n.a.	n.a.	42.1	9.5	48.4	100.0
Manner	28,522	*	29,450	96.8	*	100.0	14,014	3,454	11,054	28,522	49.1	12.1	38.8	100.0
Vauniya	41,404	5,155	46,559	88.9	11.1	100.0	11,137	5,613	24,654	41,404	26.9	13.6	59.5	100.0
Mullaitive	n.a.	n.a.	-	88.7	11.3	100.0	n.a.	n.a.	n.a.	n.a.	55.6	9.9	34.5	100.0
Batticaloa	142,790	16,879	159,669	89.4	10.6	100.0	46,525	33,286	62,979	142,790	32.6	23.3	44.1	100.0
Ampara	196,754	25,657	222,411	88.5	11.5	100.0	89,382	28,179	79,193	196,754	45.4	14.3	40.2	100.0
Trincomalee	115,182	10,623	125,805	91.6	8.4	100.0	34,813	14,709	65,660	115,182	30.2	12.8	57.0	100.0
Kurunegala	673,450	57,254	730,704	92.2	7.8	100.0	194,304	198,527	280,619	673,450	28.9	29.5	41.7	100.0
Puttalam	278,294	20,952	299,246	93.0	7.0	100.0	88,257	75,964	114,073	278,294	31.7	27.3	41.0	100.0
Anuradhapura	330,526	32,242	362,768	91.1	8.9	100.0	191,172	39,305	100,049	330,526	57.8	11.9	30.3	100.0
Polonnarwa	140,215	9,127	149,342	93.9	6.1	100.0	67,145	26,916	46,154	140,215	47.9	19.2	32.9	100.0
Badulla	415,215	26,019	441,234	94.1	5.9	100.0	282,325	43,189	89,701	415,215	68.0	10.4	21.6	100.0
Moneragala	182,122	19,589	201,711	90.3	9.7	100.0	122,632	24,111	35,379	182,122	67.3	13.2	19.4	100.0
Survey Area Total	2,709,845	241,277	2,952,050	91.8	8.2	100.0	1,205,278	522,623	978,490	2,709,845	44.5	19.3	36.1	100.0
Other provinces	4,684,184	426,047	5,109,303	91.7	8.3	100.0	1,269,771	1,259,061	2,158,807	4,684,184	27.1	26.9	46.1	100.0
Sri Lanka Total	7,394,029	667,324	8,061,353	91.7	8.3	100.0	2,475,049	1,781,684	3,137,297	7,394,029	33.5	24.1	42.4	100.0

(2) Employed Population by Major Industry Group and by Sex

District	Employed Population by Major Industry Group - Male								Employed Population by Major Industry Group - Female							
	Agriculture (person)	Industry (person)	Services (person)	Total (person)	Agriculture (%)	Industry (%)	Services (%)	Total (%)	Agriculture (person)	Industry (person)	Services (person)	Total (person)	Agriculture (%)	Industry (%)	Services (%)	Total (%)
Jaffna	46,812	27,797	53,524	128,133	36.5	21.7	41.8	100.0	16,760	5,027	15,451	37,238	45.0	13.5	41.5	100.0
Kilinochchi	n.a.	n.a.	n.a.	n.a.	19.9	*	60.0	100.0	*	*	*	*	*	*	*	*
Manner	12,696	3,002	7,690	23,388	54.3	12.8	32.9	100.0	*	*	3,365	5,135	*	*	65.5	100.0
Vauniya	10,162	4,792	20,253	35,207	28.9	13.6	57.5	100.0	*	*	4,401	6,196	*	*	71.0	100.0
Mullaitive	n.a.	n.a.	n.a.	n.a.	35.1	12.0	52.9	100.0	*	*	*	*	*	*	*	*
Batticaloa	40,011	20,434	48,514	108,959	36.7	18.8	44.5	100.0	6,514	12,852	14,465	33,832	19.3	38.0	42.8	100.0
Ampara	63,101	19,372	60,597	143,070	44.1	13.5	42.4	100.0	26,281	8,807	18,596	53,685	49.0	16.4	34.6	100.0
Trincomalee	32,677	10,716	55,194	98,587	33.1	10.9	56.0	100.0	*	*	10,467	16,594	*	*	63.1	100.0
Kurunegala	127,921	117,415	202,287	447,623	28.6	26.2	45.2	100.0	66,383	81,112	78,331	225,827	29.4	35.9	34.7	100.0
Puttalam	69,395	52,041	90,296	211,732	32.8	24.6	42.6	100.0	18,862	23,923	23,777	66,562	28.3	35.9	35.7	100.0
Anuradhapura	114,383	25,340	72,356	212,079	53.9	11.9	34.1	100.0	76,789	13,965	27,693	118,447	64.8	11.8	23.4	100.0
Polonnarwa	53,722	15,300	35,941	104,963	51.2	14.6	34.2	100.0	13,424	11,615	10,213	35,252	38.1	32.9	29.0	100.0
Badulla	141,394	29,059	67,280	237,733	59.5	12.2	28.3	100.0	140,932	14,130	22,420	177,482	79.4	8.0	12.6	100.0
Moneragala	83,425	17,341	25,877	126,643	65.9	13.7	20.4	100.0	39,206	6,770	9,501	55,478	70.7	12.2	17.1	100.0
Survey Area Total	795,699	342,609	739,809	1,878,117	42.4	18.2	39.4	100.0	405,151	178,201	238,680	831,728	48.7	21.4	28.7	100.0
Other provinces	763,926	824,587	1,582,796	3,171,309	24.1	26.0	49.9	100.0	510,273	436,287	576,011	1,512,875	33.7	28.8	38.1	100.0
Sri Lanka Total	1,559,625	1,167,196	2,322,605	5,049,426	30.9	23.1	46.0	100.0	915,424	614,488	814,691	2,344,603	39.0	26.2	34.7	100.0

Note: *: Reliable estimates cannot be provided due to the small cell size.

□; Due to some defects observed in the sampling frame, absolute estimates for Mullaitivu and Kilinochchi districts are not published in this report.

Total estimate also excludes these two districts. However, some rates and percentages pertaining to these districts are published separately.

Source: District and Provincial Level Tables of the Sri Lanka Labour Force Survey 2004, Department of Census and Statistics

Table A 3.3 Description of Agro-Ecological Region (1/2)

Zone	Agro -Ecological Region and Symbol	75% Expectancy Value of Annual Rainfall (MM)	Terrain & Dominant Soils	
WET ZONE	Up Country	WU1	>3,100	Tea, Forest Plantations, Natural Forest, Mountainous, steeply dissected, hilly& rolling RYP, Mountain Regosols & Lithosol soils.
		WU2a	>2,400	Tea, Forest Plantations, Steeply dissected, hilly& rolling RYP soils
		WU2b	>2,200	Tea, Forest Plantations, Vegetables, Mountainous ,Steeply dissected, hilly& rolling RYP, Mountain Regosol & Lithosol soils
		WU3	>1,800	Tea, Vegetables ,Pasture, Home gardens, Forest plantations, Hilly & rolling RYP soils with prominent A1 horizon & RYP soils with dark B horizon.
	Mid Country	WM1a	>3,300	Tea, Natural forest, Mountainous, steeply dissected, hilly & rolling RYP soils with semi prominent A1 horizon & Lithosol soils
		WM1b	>2,900	Tea, Natural forest , Mixed home gardens, steeply dissected, hilly & rolling RYP soils with semi prominent A1 horizon & Lithosol soils
		WM2a	>2,200	Tea, Mixed Home gardens, Export Agricultural Crops, Natural Forest, Paddy, Steeply dissected , Hilly & rolling RYP , RBL & LHG Soils
		WM2b	>1,800	Mixed home gardens, Paddy, Export Agricultural Crops, Tea, Steep, hilly & rolling RBL, IBL, LHG & RYP soils.
		WM3a	>1,600	Mixed home gardens, Export Agricultural Crops, Tea, Paddy, Rubber, Steep, hilly & rolling RBL, IBL, LHG, Lithosol soils.
		WM3b	>1,400	Mixed home gardens, Export Agricultural Crops, Tea, Vegetables, hilly, rolling undulating & steep RBL, IBL &, LHG soils.
	Low Country	WL1a	>3,200	Tea, Rubber, Mixed home gardens, Paddy, Export Agricultural Crops (Cinnamon), Rolling, undulating & hilly RYP, RYP soils with prominent A1 horizon & LHG soils.
		WL1b	>2,800	Rubber Mixed home gardens, Paddy, Undulating & rolling RYP & LHG soils.
		WL2a	>2,400	Rubber Tea, Coconut, Mixed home gardens, Paddy, Export Agricultural Crop(Cinnamon) ,Rolling , undulating and flat RYP , LHG & Bog and Half - Bog soils..
		WL2b	>2,200	Rubber, Coconut, Mixed home gardens, Paddy, Steeply dissected, rolling & undulating RYP, RYP soils with strongly motted sub- soil, RBL & LHG soils.
		WL3	>1,700	Coconut, Fruit Crops, Mixed home gardens, Paddy, Rolling & undulating RYP soils with soft and hard laterite, LHG & Regosol soils.
INTERMEDIATE ZONE	Up Country	IU1	>2,400	Tea, Export Crops (Cardamom), Natural forest, Forest plantation, Mountainous, steeply dissected, hilly & rolling RYP, Mountain Regosol & Lithosol soils.
		IU2	>2,100	Tea, Vegetables, Mixed home gardens, Natural forest, Forest plantation, Mountainous, steeply dissected, hilly & rolling RYP, Mountain Regosol & Lithosol soils.
		IU3a	>1,900	Tea, Forest plantation, steeply dissected, hilly & rolling RYP, Mountain Regosol soils.
		IU3b	> 1,700	Tea, Natural Forest, Forest plantation, Mountainous, steeply dissected, hilly RYP, Mountain Regosol & Lithosol soils.
		IU3c	> 1,600	Tea, Vegetables, Paddy, Steeply dissected hilly & rolling RYP & LHG soils
		IU3d	>1,300	Tea, Vegetables, Forest Plantations, Natural forest, Steep, hilly & rolling RYP & Mountain Regosol soils
		IU3e	>1400	Tea, Vegetables, Paddy, Mixed home gardens, Steeply dissected hilly & rolling RYP & LHG soils

Table A 3.3 Description of Agro-Ecological Region (2/2)

Zone	Agro -Ecological Region and Symbol	75% Expectancy Value of Annual Rainfall (MM)	Terrain & Dominant Soils	
INTERMEDIATE ZONE	Mid Country	IM1a	>2,000	Tea, Vegetables, Paddy, Mixed home gardens, paddy, Forest Plantations, Very Steep & hilly RBL RYP , IBL , LHG & Lithosol soils
		IM1b	>2,000	Natural forest, Mixed home garden, Paddy, Grass lands, Hilly, rolling & undulating RBE,RBL,LHG, Mountain Regosol & Lithosol soils
		IM1c	>1,300	Natural forest, Vegetables, Very steep, Hilly & rolling RBL,IBL , Mountain Regosol & Lithosol soils
		IM2a	>1,800	Export Agricultural Crops, Mixed home gardens, Tea, Vegetables, Steep, hilly & rolling RBL & RYP soils.
		IM2b	>1,600	Natural forest Mixed home gardens, Paddy, Tea, Vegetables, Very Steep, hilly & rolling RBL, IBL, RYP, LHG & Lithosol soils.
		IM3a	>1,400	Mixed home gardens, Export Agricultural Crops, Paddy, and hilly, rolling & steep IBL, RBL & LHG soils.
		IM3b	>1,200	Mixed home gardens, Export Agricultural Crops, Rubber, Vegetables, Paddy, rolling & undulating, RBL, RBE & LHG soils.
		IM3c	>1,100	Vegetables, Tea , Mixed home gardens, Export Agricultural Crops, Steeply dissected , hilly & rolling RBL & IBL soils
	Low Country	IL1a	>1,400	Coconut, Mixed home gardens, Export Agricultural Crops, Paddy, Rubber, Rolling , Undulating & Flat RYP soils with strongly motted sub- soil, RYP, LHG , RBL, & Regosol soils
		IL1b	>1,100	Coconut, Paddy ,Mixed home gardens, Export Agricultural Crops, Rolling , Undulating & Flat , RYP, RBL, RBE,, LHG , & Regosol soils
		IL1c	>1,300	Mixed home gardens, Rubber, Paddy, Sugar cane , Rolling , undulating & flat RBL, RBE, LHG & IBL soils
		IL2	>1,600	Mixed home gardens, Paddy, Rain fed Upland Crops, Scrub, Sugar cane , Rolling , hilly & undulating RBE, LHG & RBL soils
		IL3	>1,100	Coconut, Paddy. Mixed home gardens, Undulating NCB, RBE & LHG soils
	DRY ZONE	Low Country	DL1a	>1,100
DL1b			> 900	Rained Upland Crops , Paddy, Scrub, Mixed home gardens, Forest plantations, Undulating RBE & LHG soils
DL1c			> 900	Rained Upland Crops , Paddy, Scrub, Natural forest, Forest plantations, Undulating RBE & LHG soils
DL1d			>900	Rained Upland Crops , Paddy, Scrub, Undulating & flat RBE, Regosol & LHG soils
DL1e			> 900	Rained Upland Crops , Paddy, Scrub, Undulating RBE & LHG soils
DL1f			> 800	Rained Upland Crops , Paddy, Scrub, Natural forest ,Undulating RBE , LHG Grumusol soils
DL2a			>1,300	Rained Upland Crops , Paddy, Natural forest, Sugar Cane , Scrub, Undulating NCB, RBE , LHG & Old Alluvial soils
DL2b			>1,100	Paddy, Rained Upland Crops, Undulating & flat NCB, RBE, Old alluvial, LHG, Regosol& Solodized - Solonetz soils.
DL3			>800	Cashew, Coconut, Condiments, Scrub, Natural forest, Flat & slightly undulating RYL & Regosol soils
DL4			>750	Scrub, Paddy, Rained Upland Crops, Flat Solodized- Solonetz, Solonchaks & Grumusol soils
DL5			>650	Scrub, Natural forest, Rained Upland Crops, Paddy, Undulating & flat RBE soils with high amount of gravel in sub soil , LHG & Solodized - Solonetz soils.

Table A 3.4 Summary of Climate Zone and Agro-Eco Zone

Province District	No of DS Divisions	Total Area (ha)	Area under each Climatic Zone and Agro-Ecological Region (ha)									
			Dry Zone	Intermediate Zone				Wet Zone				
			Low Country	Low Country	Mid Country	Up Country	Sub Total	Low Country	Mid Country	Up Country	Sub Total	
North	35	893,743	893,743	-	-	-	-	-	298	-	-	298
Jaffna	15	100,996	100,996	-	-	-	-	-	298	-	-	298
Kilinochchi	5	135,089	135,089									
Mannar	5	199,756	199,756									
Vavuniya	4	200,428	200,428									
Mullaitivu	6	257,474	257,474									
East	45	962,242	904,182	58,060				58,060				
Batticaloa	14	248,329	248,329									
Ampara	20	449,551	391,491	58,060				58,060				
Trincomalce	11	264,362	264,362									
North-Western	47	806,426	345,370	417,092	3,251			420,343	23,041	17,375		40,416
Kurunegala	31	490,450	103,178	343,605	3,251			346,856		17,375		17,375
Puttalam	16	315,976	242,192	73,487				73,487	23,041			23,041
North-Central	29	1,065,857	1,059,012	5,931	915			6,846				
Anuradbapura	22	721,225	719,543	1,682				1,682				
Polonnaruwa	7	344,632	339,469	4,249	915			5,164				
Uva	26	766,567	325,060	230,402	121,807	87,776		439,985			1,523	1,523
Badulla	15	287,208	31,159	87,111	81,026	86,389		254,526			1,523	1,523
Monaragala	11	479,359	293,901	143,291	40,781	1,387		185,459				
5 Provinces Total	182	4,494,835	3,527,367	711,485	125,973	87,776		925,234	23,339	17,375	1,523	42,237
		% of Total Area	78.5%	15.8%	2.8%	2.0%		20.6%	0.5%	0.4%	0.0%	0.9%

Table A 3.5 District-wise Surface Water Discharge Volume to Sea

Province District	Names of River Basins	Estimated Annual Discharge Volume to Sea (MCM)
North		2,602
Jaffna		0
Kilinochchi	Torvil Aru, Piramenthal Aru, Methalli Aru, Kanakarayan Aru, Kalvalappu Aru, Akkarayan Aru, Madekal Aru, Pallavarayayankaddu Aru, & Pali Aru	408
Mannar	Chippi Aru, Parangi Aru, Nay Aru, Malwatu Oya, Kal Aru & Kala Oya	580
Vavuniya	Ma Oya, Chriya Aru, Palladi aru, Manal Aru, Per Aru, Kanakarayan Aru, Pali Aru, Parangi Aru, Nay Aru, Malwatu Oya & Kal Aru	590
Mullaitivu	Ma Oya, Chriya Aru, Chavar Aru, Palladi Aru, Manal Aru, Kodalikallu Aru, Per Aru, Pali Aru, Maruthapilly aru Torvil Aru, Piramenthal Aru, Methalli Aru, Kanakarayan Aru, Kalvalappu Aru, Akkarayan Aru, Madekal Aru, Pallavarayayankaddu Aru, Pali Aru, Chippi Aru, Parangi Aru & Nay Aru	1,024
East		3,380
Batticaloa	Gal Oya, Andella Oya, Thumpankeni Tank, Namakada Aru, Mandipattu Aru, Pathanthe Aru, Vett Aru, Unnichchai Aru, Mundeni Aru, Miyangilla Ela, Maduru Oya, Pulliyanpota Aru, Kirimechchi Odai, Bodigoda Aru, Mandan Aru & Makarachchi Aru	994
Ampara	Kumbukkan Oya, Bagura Oya, Girikula Oya, Helawa Oya, Wila Oya, Heda Oya, Karanda Oya, Saymena Aru, Tandiadi Aru, Kangikadichi Aru, Rufus Aru, Pannala Oya, Ambalam Oya, Gal Oya, Andella Oya, Mandipattu Aru, Unnichchai Aru, Mundeni Aru, Miyangolla Ela, Maduru Oya & Kantale Aru	1,921
Trincomalee	Makarachchi Aru, Mahaweli Ganga, Kantale Aru, Panna Oya, Palampotha Aru, Pankulama Aru, Kunchikumban Aru, Palkutti Aru, Yan Oya, Mee Oya & Ma Oya	465
North-West		3,155
Kurunegala	Kala Oya, Mi Oya, Kolamune Oya, Rathambala Oya, Daduru Oya, Karambalan Oya, Ratmal Oya & Maha Oya	2,471
Puttalam	Moderagam Aru, Kala Oya, Moongili Aru, Mi Oya, Maurankuli Aru, Kolamune Oya, Rathambala Oya, Daduru Oya, Karambalan Oya, Ratmal Oya, Maha Oya & Attanagalu Oya	684
North Central		2,437
Anuradhapura	Mahaweli Ganga, Pankulama Aru, Yan Oya, Mee Oya, Ma Oya, Knakarayan Aru, Parangi Aru, Malwatu Oya, Kal Aru, Moderagam Aru, Kala Oya, Mi Oya, Daduru Oya	1,209
Polonnaruwa	Maduru Oya, Bodigoda Aru, Mandan Aru, Makarachchi Aru, Mahaweli Ganaga, Kantale Aru & Yan Oya,	1,228
Uva		2,050
Badulla	Walawe Ganga, Kirindi Oya, Manik Ganga, Kumbukkan Oya, Gal oya & Maduru Oya	878
Monaragala	Walawe Ganga, Malala Oya, Kirindi Oya, Bambawa Ara, Manik Ganga, Katupila Ara, Kurundu Ara, Nambadagas Ara, Kumbukkan Oya, Wila Oya, Heda Oya, Karanda Oya & Gal oya	1,172
5 Provinces Total		13,624

Table A 3.6 Present Land Use in the Survey Area

(1) Area by Land Use Categories

Province District	Paddy (Sq Km)	Coconut (Sq Km)	Rubber (Sq Km)	Tea (Sq Km)	Chena (Sq Km)	Garden (Sq Km)	Grassland (Sq Km)	Forest (Sq Km)	Sand (Sq Km)	Scrub (Sq Km)	Others (Sq Km)	Total (Sq Km)
Northern	1,171	112	2	0	164	867	11	4,139	138	1,355	977	8,937
Jaffna	194	23	0	0	2	389	9	9	90	127	167	1,010
Kilinochchi	305	61	0	0	6	115	0	372	26	254	213	1,351
Mannar	221	12	0	0	14	70	1	1,111	10	315	242	1,998
Vavuniya	241	0	0	0	87	162	0	1,155	0	233	126	2,004
Mullaitivu	210	15	2	0	56	131	0	1,493	12	427	229	2,575
Eastern	1,891	61	0	0	123	813	10	2,883	36	2,580	1,224	9,622
Batticaloa	665	38	0	0	43	173	6	437	14	754	353	2,483
Ampara	711	11	0	0	61	432	3	1,398	15	1,293	572	4,496
Trincomalee	515	12	0	0	19	208	1	1,047	8	533	299	2,644
North West	1,301	2,681	50	2	342	1,211	16	956	34	704	766	8,064
Kurunegala	1,038	1,948	50	2	82	915	7	139	0	356	367	4,905
Puttalam	264	732	0	0	260	296	9	817	34	348	399	3,160
North Central	1,725	10	0	0	607	999	98	3,815	0	2,319	1,086	10,659
Anuradhapura	1,287	10	0	0	588	691	8	2,284	0	1,647	697	7,212
Polonnaruwa	438	0	0	0	18	308	91	1,531	0	672	388	3,446
Uva	441	1	35	455	924	1,277	138	2,713	1	1,908	731	8,625
Badulla	280	0	8	443	168	514	40	339	0	795	286	2,872
Monaragala	161	0	27	13	757	763	99	2,374	1	1,113	445	5,753
5 provinces Total	6,529	2,864	87	458	2,161	5,167	274	14,507	210	8,866	4,783	45,907

(2) Proportion

Province District	Paddy (%)	Coconut (%)	Rubber (%)	Tea (%)	Chena (%)	Garden (%)	Grassland (%)	Forest (%)	Sand (%)	Scrub (%)	Others (%)	Total (%)
Northern	13.1	1.2	0.0	0.0	1.8	9.7	0.1	46.3	1.5	15.2	10.9	100.0
Jaffna	19.2	2.3	0.0	0.0	0.2	38.5	0.9	0.9	8.9	12.5	16.6	100.0
Kilinochchi	22.6	4.5	0.0	0.0	0.4	8.5	0.0	27.5	1.9	18.8	15.7	100.0
Mannar	11.1	0.6	0.0	0.0	0.7	3.5	0.1	55.6	0.5	15.8	12.1	100.0
Vavuniya	12.0	0.0	0.0	0.0	4.3	8.1	0.0	57.6	0.0	11.6	6.3	100.0
Mullaitivu	8.1	0.6	0.1	0.0	2.2	5.1	0.0	58.0	0.5	16.6	8.9	100.0
Eastern	19.7	0.6	0.0	0.0	1.3	8.5	0.1	30.0	0.4	26.8	12.7	100.0
Batticaloa	26.8	1.5	0.0	0.0	1.7	7.0	0.2	17.6	0.6	30.4	14.2	100.0
Ampara	15.8	0.2	0.0	0.0	1.4	9.6	0.1	31.1	0.3	28.8	12.7	100.0
Trincomalee	19.5	0.5	0.0	0.0	0.7	7.9	0.1	39.6	0.3	20.2	11.3	100.0
North West	16.1	33.2	0.6	0.0	4.2	15.0	0.2	11.9	0.4	8.7	9.5	100.0
Kurunegala	21.2	39.7	1.0	0.0	1.7	18.7	0.1	2.8	0.0	7.3	7.5	100.0
Puttalam	8.3	23.2	0.0	0.0	8.2	9.4	0.3	25.9	1.1	11.0	12.6	100.0
North Central	16.2	0.1	0.0	0.0	5.7	9.4	0.9	35.8	0.0	21.8	10.2	100.0
Anuradhapura	17.8	0.1	0.0	0.0	8.2	9.6	0.1	31.7	0.0	22.8	9.7	100.0
Polonnaruwa	12.7	0.0	0.0	0.0	0.5	8.9	2.6	44.4	0.0	19.5	11.3	100.0
Uva	5.1	0.0	0.4	5.3	10.7	14.8	1.6	31.5	0.0	22.1	8.5	100.0
Badulla	9.7	0.0	0.3	15.4	5.8	17.9	1.4	11.8	0.0	27.7	10.0	100.0
Monaragala	2.8	0.0	0.5	0.2	13.2	13.3	1.7	41.3	0.0	19.3	7.7	100.0
5 provinces Total	14.2	6.2	0.2	1.0	4.7	11.3	0.6	31.6	0.5	19.3	10.4	100.0

(3) Area per Smallholder (pro forma amount)*

Province District	Paddy (ha)	Coconut (ha)	Rubber (ha)	Tea (ha)	Chena (ha)	Garden (ha)	Grassland	Forest	Sand	Scrub	Others	Total
Northern	0.71	0.07	0.00	0.00	0.10	0.53	-	-	-	-	-	1.41
Jaffna	0.21	0.03	0.00	0.00	0.00	0.42	-	-	-	-	-	0.66
Kilinochchi	1.72	0.35	0.00	0.00	0.03	0.65	-	-	-	-	-	2.75
Mannar	1.51	0.08	0.00	0.00	0.09	0.48	-	-	-	-	-	2.17
Vavuniya	1.12	0.00	0.00	0.00	0.40	0.75	-	-	-	-	-	2.28
Mullaitivu	1.16	0.08	0.01	0.00	0.31	0.72	-	-	-	-	-	2.28
Eastern	0.69	0.02	0.00	0.00	0.04	0.30	-	-	-	-	-	1.05
Batticaloa	0.67	0.04	0.00	0.00	0.04	0.17	-	-	-	-	-	0.93
Ampara	0.57	0.01	0.00	0.00	0.05	0.35	-	-	-	-	-	0.98
Trincomalee	0.99	0.02	0.00	0.00	0.04	0.40	-	-	-	-	-	1.45
North West	0.27	0.56	0.01	0.00	0.07	0.25	-	-	-	-	-	1.17
Kurunegala	0.30	0.57	0.01	0.00	0.02	0.27	-	-	-	-	-	1.18
Puttalam	0.20	0.55	0.00	0.00	0.19	0.22	-	-	-	-	-	1.16
North Central	0.69	0.00	0.00	0.00	0.24	0.40	-	-	-	-	-	1.34
Anuradhapura	0.73	0.01	0.00	0.00	0.33	0.39	-	-	-	-	-	1.45
Polonnaruwa	0.61	0.00	0.00	0.00	0.03	0.43	-	-	-	-	-	1.07
Uva	0.20	0.00	0.02	0.21	0.42	0.58	-	-	-	-	-	1.42
Badulla	0.22	0.00	0.01	0.34	0.13	0.40	-	-	-	-	-	1.09
Monaragala	0.18	0.00	0.03	0.01	0.83	0.84	-	-	-	-	-	1.89
5 provinces Total	0.47	0.21	0.01	0.03	0.16	0.37	-	-	-	-	-	1.25

Note: *, Area per smallholder is calculated as pro forma amount based on the number of smallholders obtained from the Census of Agriculture 2002.
Source: GIS data prepared by the Department of Census and Statistics and Census of Agriculture 2002

Table A 3.7 Agricultural Holdings and their Land Extent by District in 2002

(1) Number of Agricultural Holdings (No.)

Province/District	Less than or Equal to 0.11 ha (No.)	More than 0.11 ha (No.)	Estate Sector above 8.0 ha (No.)	Total (No.)	Total excluding Estate Sector (No.)	Share in 5 Provinces (%)	Share in Sri Lanka (%)
North	95,176	68,686	1	163,863	163,862	11.8	5.0
Jaffna	66,526	25,329	0	91,855	91,855	6.6	2.8
Kilinochchi	4,174	13,491	1	17,666	17,665	1.3	0.5
Manner	9,478	5,188	0	14,666	14,666	1.1	0.5
Vauniya	8,649	12,873	0	21,522	21,522	1.6	0.7
Mullaitive	6,349	11,805	0	18,154	18,154	1.3	0.6
East	180,008	95,155	13	275,176	275,163	19.9	8.5
Batticaloa	78,897	20,476	12	99,385	99,373	7.2	3.1
Ampara	67,778	55,822	1	123,601	123,600	8.9	3.8
Trincomalee	33,333	18,857	0	52,190	52,190	3.8	1.6
North-Western	155,619	320,382	2,960	478,961	476,001	34.4	14.6
Kurunegala	90,104	252,111	2,017	344,232	342,215	24.7	10.5
Puttalam	65,515	68,271	943	134,729	133,786	9.7	4.1
North Central	38,670	210,300	45	249,015	248,970	18.0	7.7
Anuradhapura	26,351	150,971	23	177,345	177,322	12.8	5.5
Polonnarwa	12,319	59,329	22	71,670	71,648	5.2	2.2
Uva	47,336	173,883	209	221,428	221,219	16.0	6.8
Badulla	38,733	91,169	186	130,088	129,902	9.4	4.0
Moneragala	8,603	82,714	23	91,340	91,317	6.6	2.8
5 provinces Total	516,809	868,406	3,228	1,388,443	1,385,215	100.0	42.6
Other provinces	946,095	918,209	3,349	1,867,653	1,864,304		57.4
Sri Lanka Total	1,462,904	1,786,615	6,577	3,256,096	3,249,519		100.0

(2) Land Area (ha)

Province/District	Less than or Equal to 0.11 ha (ha)	More than 0.11 ha (ha)	Estate Sector above 8.0 ha (ha)	Total (ha)	Total excluding Estate Sector (ha)	Share in 5 Provinces (%)	Share in Sri Lanka (%)
North	5,736	64,701	16	70,453	70,437	8.3	4.6
Jaffna	4,023	12,853	0	16,876	16,876	2.0	1.1
Kilinochchi	340	14,773	16	15,129	15,113	1.8	1.0
Manner	427	8,365	0	8,792	8,792	1.0	0.6
Vauniya	544	13,023	0	13,567	13,567	1.6	0.9
Mullaitive	402	15,687	0	16,089	16,089	1.9	1.1
East	9,096	117,620	691	127,407	126,716	14.9	8.3
Batticaloa	3,879	28,784	501	33,164	32,663	3.9	2.1
Ampara	3,319	68,514	190	72,023	71,833	8.5	4.7
Trincomalee	1,898	20,322	0	22,220	22,220	2.6	1.5
North-Western	9,962	277,127	71,858	358,947	287,089	33.8	18.7
Kurunegala	6,126	212,941	49,293	268,360	219,067	25.8	14.3
Puttalam	3,836	64,186	22,565	90,587	68,022	8.0	4.4
North Central	2,723	208,236	6,301	217,260	210,959	24.9	13.8
Anuradhapura	1,817	143,726	2,350	147,893	145,543	17.2	9.5
Polonnarwa	906	64,510	3,951	69,367	65,416	7.7	4.3
Uva	2,984	150,158	45,449	198,591	153,142	18.1	10.0
Badulla	2,343	61,809	40,881	105,033	64,152	7.6	4.2
Moneragala	641	88,349	4,568	93,558	88,990	10.5	5.8
5 provinces Total	30,501	817,842	124,315	972,658	848,343	100.0	55.4
Other provinces	51,321	631,703	260,528	943,552	683,024		44.6
Sri Lanka Total	81,822	1,449,545	384,843	1,916,210	1,531,367		100.0

(3) Average Holding Size (ha/holding)

Province/District	Less than or Equal to 0.11 ha (ha)	More than 0.11 ha (ha)	Estate Sector above 8.0 ha (ha)	Total (ha)	Total excluding Estate Sector (ha)
North	0.06	0.94	16.00	0.43	0.43
Jaffna	0.06	0.51	-	0.18	0.18
Kilinochchi	0.08	1.10	16.00	0.86	0.86
Manner	0.05	1.61	-	0.60	0.60
Vauniya	0.06	1.01	-	0.63	0.63
Mullaitive	0.06	1.33	-	0.89	0.89
East	0.05	1.24	53.15	0.46	0.46
Batticaloa	0.05	1.41	41.75	0.33	0.33
Ampara	0.05	1.23	190.00	0.58	0.58
Trincomalee	0.06	1.08	-	0.43	0.43
North-Western	0.06	0.86	24.28	0.75	0.60
Kurunegala	0.07	0.84	24.44	0.78	0.64
Puttalam	0.06	0.94	23.93	0.67	0.51
North Central	0.07	0.99	140.02	0.87	0.85
Anuradhapura	0.07	0.95	102.17	0.83	0.82
Polonnarwa	0.07	1.09	179.59	0.97	0.91
Uva	0.06	0.86	217.46	0.90	0.69
Badulla	0.06	0.68	219.79	0.81	0.49
Moneragala	0.07	1.07	198.61	1.02	0.97
5 provinces Total	0.06	0.94	38.51	0.70	0.61
Other provinces	0.05	0.69	77.79	0.51	0.37
Sri Lanka Total	0.06	0.81	58.51	0.59	0.47

Source: Census of Agriculture 2002, Department of Census and Statistics

Table A 3.8 Land Holding and Ownership of Small Holdings in the Survey Area (2002)

	Not Owning Any Land	Small holdings less than or equal to 0.1 ha*	Small holdings more than 0.1 ha			Sub-total	Total
			Owning only Homegarden	Owning Homegarden and Other Land	Owning Other Land Only		
(1) Number of Operators (No.)							
North	8,823	95,176	15,821	34,686	9,075	59,582	163,581
Jaffna	2,015	66,526	5,848	14,892	2,409	23,149	91,690
Kilinochchi	1,677	4,174	3,888	5,693	2,233	11,814	17,665
Manner	1,159	9,478	564	2,963	500	4,027	14,664
Vauniya	946	8,649	3,519	5,997	2,297	11,813	21,408
Mullaitive	3,026	6,349	2,002	5,141	1,636	8,779	18,154
East	9,961	180,008	15,967	55,217	11,815	82,999	272,968
Batticaloa	997	78,897	2,502	12,713	4,124	19,339	99,233
Ampara	6,698	67,778	8,432	33,209	5,443	47,084	121,560
Trincomalee	2,266	33,333	5,033	9,295	2,248	16,576	52,175
North-Western	21,769	155,619	77,420	104,548	111,050	293,018	470,406
Kurunegala	14,267	90,104	59,922	87,382	86,430	233,734	338,105
Puttalam	7,502	65,515	17,498	17,166	24,620	59,284	132,301
North Central	23,843	38,670	57,370	109,785	14,294	181,449	243,962
Anuradhapura	18,223	26,351	43,501	73,980	11,513	128,994	173,568
Polonnarwa	5,620	12,319	13,869	35,805	2,781	52,455	70,394
Uva	16,112	47,336	46,396	64,024	43,853	154,273	217,721
Badulla	7,119	38,733	15,586	29,205	37,487	82,278	128,130
Moneragala	8,993	8,603	30,810	34,819	6,366	71,995	89,591
5 provinces Total	80,508	516,809	212,974	368,260	190,087	771,321	1,368,638
Other provinces/districts	58,957	946,095	194,437	279,492	369,634	843,563	1,848,615
Sri Lanka Total	139,465	1,462,904	407,411	647,752	559,721	1,614,884	3,217,253
(2) Percentage distribution (%)							
North	5.4	58.2	9.7	21.2	5.5	36.4	100.0
Jaffna	2.2	72.6	6.4	16.2	2.6	25.2	100.0
Kilinochchi	9.5	23.6	22.0	32.2	12.6	66.9	100.0
Manner	7.9	64.6	3.8	20.2	3.4	27.5	100.0
Vauniya	4.4	40.4	16.4	28.0	10.7	55.2	100.0
Mullaitive	16.7	35.0	11.0	28.3	9.0	48.4	100.0
East	3.6	65.9	5.8	20.2	4.3	30.4	100.0
Batticaloa	1.0	79.5	2.5	12.8	4.2	19.5	100.0
Ampara	5.5	55.8	6.9	27.3	4.5	38.7	100.0
Trincomalee	4.3	63.9	9.6	17.8	4.3	31.8	100.0
North-Western	4.6	33.1	16.5	22.2	23.6	62.3	100.0
Kurunegala	4.2	26.6	17.7	25.8	25.6	69.1	100.0
Puttalam	5.7	49.5	13.2	13.0	18.6	44.8	100.0
North Central	9.8	15.9	23.5	45.0	5.9	74.4	100.0
Anuradhapura	10.5	15.2	25.1	42.6	6.6	74.3	100.0
Polonnarwa	8.0	17.5	19.7	50.9	4.0	74.5	100.0
Uva	7.4	21.7	21.3	29.4	20.1	70.9	100.0
Badulla	5.6	30.2	12.2	22.8	29.3	64.2	100.0
Moneragala	10.0	9.6	34.4	38.9	7.1	80.4	100.0
5 provinces Total	5.9	37.8	15.6	26.9	13.9	56.4	100.0
Other provinces/districts	3.2	51.2	10.5	15.1	20.0	45.6	100.0
Sri Lanka Total	4.3	45.5	12.7	20.1	17.4	50.2	100.0

Note: *: This is categorized as "holdings reporting extent less than or equal to 40 perches (1/4 acre) of land with agricultural output mainly for home consumption".

Source: Census of Agriculture 2002, Department of Census and Statistics

**Table A 3.9 Production of Paddy and OFCs in the Survey Area
in Maha 2008/09 and Yala 2009 (1/6)**

Crop Province District	Maha 2008/2009					Yala 2009					Total Production		
	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)
			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			
Paddy (*:1000 tons)													
North	17,960	3,619	65	(3.5)	(2.7)	250	3,998	1	(0.1)	(0.1)	66	(2.5)	(1.8)
Jaffna	6,385	2,506	16	(0.9)	(0.7)	0	0	0	(0.0)	(0.0)	16	(0.6)	(0.4)
Kilinochchi	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	5,177	3,670	19	(1.0)	(0.8)	0	0	0	(0.0)	(0.0)	19	(0.7)	(0.5)
Vauniya	6,398	4,689	30	(1.6)	(1.3)	250	3,998	1	(0.1)	(0.1)	31	(1.2)	(0.8)
Mullaitive	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	127,017	4,558	579	(31.4)	(24.3)	70,590	4,788	338	(39.7)	(26.7)	917	(34.1)	(25.1)
Batticaloa	40,396	3,639	147	(8.0)	(6.2)	14,085	4,189	59	(6.9)	(4.7)	206	(7.6)	(5.6)
Ampara	65,335	5,158	337	(18.3)	(14.1)	43,312	4,964	215	(25.3)	(17.0)	552	(20.5)	(15.1)
Trincomalee	21,286	4,463	95	(5.2)	(4.0)	13,193	4,851	64	(7.5)	(5.0)	159	(5.9)	(4.4)
North-Western	93,503	3,946	369	(20.0)	(15.5)	58,999	3,559	210	(24.7)	(16.6)	579	(21.5)	(15.9)
Kurunegala	76,904	3,940	303	(16.4)	(12.7)	46,406	3,534	164	(19.3)	(12.9)	467	(17.3)	(12.8)
Puttalam	16,600	3,976	66	(3.6)	(2.8)	12,592	3,653	46	(5.4)	(3.6)	112	(4.2)	(3.1)
North Central	114,028	4,894	558	(30.3)	(23.4)	46,456	4,650	216	(25.4)	(17.0)	774	(28.7)	(21.2)
Anuradhapura	63,674	4,633	295	(16.0)	(12.4)	14,157	4,450	63	(7.4)	(5.0)	358	(13.3)	(9.8)
Polonnarwa	50,354	5,223	263	(14.3)	(11.0)	32,299	4,737	153	(18.0)	(12.1)	416	(15.4)	(11.4)
Uva	30,542	4,453	136	(7.4)	(5.7)	13,981	4,149	58	(6.8)	(4.6)	194	(7.2)	(5.3)
Badulla	17,172	4,484	77	(4.2)	(3.2)	6,848	4,673	32	(3.8)	(2.5)	109	(4.0)	(3.0)
Moneragala	13,370	4,413	59	(3.2)	(2.5)	7,133	3,645	26	(3.1)	(2.1)	85	(3.2)	(2.3)
Mahaweli "H" area	22,366	6,036	135	(7.3)	(5.7)	5,808	4,821	28	(3.3)	(2.2)	163	(6.1)	(4.5)
5 provinces Total	405,416	4,543	1,842	(100.0)	(77.3)	196,083	4,340	851	(100.0)	(67.1)	2,693	(100.0)	(73.7)
Other provinces	133,829	4,050	542		(22.7)	106,759	3,906	417		(32.9)	959		(26.3)
of which Colombo dist	3,939	3,554	14		(0.6)	2,996	3,004	9		(0.7)	23		(0.6)
Sri Lanka Total	539,245	4,421	2,384		(100.0)	302,842	4,187	1,268		(100.0)	3,652		(100.0)
Kurakkan													
North	154	708	109	(2.8)	(2.0)	138	906	125	(28.3)	(14.5)	234	(5.4)	(3.6)
Jaffna	134	724	97	(2.5)	(1.7)	138	906	125	(28.3)	(14.5)	222	(5.1)	(3.5)
Kilinochchi	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	2	500	1	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	1	(0.0)	(0.0)
Vauniya	18	611	11	(0.3)	(0.2)	0	0	0	(0.0)	(0.0)	11	(0.3)	(0.2)
Mullaitive	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	359	671	241	(6.2)	(4.3)	22	455	10	(2.3)	(1.2)	251	(5.8)	(3.9)
Batticaloa	33	333	11	(0.3)	(0.2)	10	300	3	(0.7)	(0.3)	14	(0.3)	(0.2)
Ampara	297	697	207	(5.3)	(3.7)	12	583	7	(1.6)	(0.8)	214	(5.0)	(3.3)
Trincomalee	29	793	23	(0.6)	(0.4)	0	#DIV/0!	0	(0.0)	(0.0)	23	(0.5)	(0.4)
North-Western	459	902	414	(10.7)	(7.4)	106	689	73	(16.6)	(8.5)	487	(11.3)	(7.6)
Kurunegala	367	847	311	(8.0)	(5.6)	92	598	55	(12.5)	(6.4)	366	(8.5)	(5.7)
Puttalam	92	1,120	103	(2.7)	(1.8)	14	1,286	18	(4.1)	(2.1)	121	(2.8)	(1.9)
North Central	1,610	1,078	1,736	(44.8)	(31.2)	27	1,481	40	(9.1)	(4.6)	1,776	(41.1)	(27.6)
Anuradhapura	1,540	1,065	1,640	(42.3)	(29.4)	11	2,000	22	(5.0)	(2.6)	1,662	(38.5)	(25.8)
Polonnarwa	70	1,371	96	(2.5)	(1.7)	16	1,125	18	(4.1)	(2.1)	114	(2.6)	(1.8)
Uva	1,083	1,172	1,269	(32.7)	(22.8)	119	1,345	160	(36.3)	(18.6)	1,429	(33.1)	(22.2)
Badulla	209	1,474	308	(7.9)	(5.5)	88	1,318	116	(26.3)	(13.5)	424	(9.8)	(6.6)
Moneragala	874	1,100	961	(24.8)	(17.3)	31	1,419	44	(10.0)	(5.1)	1,005	(23.3)	(15.6)
Mahaweli "H" area	53	2,000	106	(2.7)	(1.9)	16	2,063	33	(7.5)	(3.8)	139	(3.2)	(2.2)
5 provinces Total	3,718	1,042	3,875	(100.0)	(69.6)	428	1,030	441	(100.0)	(51.2)	4,316	(100.0)	(67.1)
Other provinces	1,306	1,299	1,696		(30.4)	450	936	421		(48.8)	2,117		(32.9)
of which Colombo dist	0	0	0		(0.0)	0	0	0		(0.0)	0		(0.0)
Sri Lanka Total	5,024	1,109	5,571		(100.0)	878	982	862		(100.0)	6,433		(100.0)
Maize													
North	257	3,553	913	(0.8)	(0.8)	36	3,528	127	(0.9)	(0.8)	1,040	(0.8)	(0.8)
Jaffna	32	1,125	36	(0.0)	(0.0)	7	1,857	13	(0.1)	(0.1)	49	(0.0)	(0.0)
Kilinochchi	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	5	1,200	6	(0.0)	(0.0)	1	2,000	2	(0.0)	(0.0)	8	(0.0)	(0.0)
Vauniya	220	3,959	871	(0.8)	(0.8)	28	4,000	112	(0.8)	(0.7)	983	(0.8)	(0.8)
Mullaitive	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	5,694	3,140	17,882	(16.0)	(15.6)	348	1,218	424	(3.1)	(2.8)	18,306	(14.6)	(14.1)
Batticaloa	505	966	488	(0.4)	(0.4)	166	4,189	201	(1.5)	(1.3)	689	(0.6)	(0.5)
Ampara	4,693	3,538	16,603	(14.9)	(14.5)	74	4,964	98	(0.7)	(0.6)	16,701	(13.4)	(12.9)
Trincomalee	496	1,595	791	(0.7)	(0.7)	108	4,851	125	(0.9)	(0.8)	916	(0.7)	(0.7)
North-Western	1,574	1,314	2,069	(1.9)	(1.8)	513	1,197	614	(4.6)	(4.1)	2,683	(2.1)	(2.1)
Kurunegala	931	851	792	(0.7)	(0.7)	448	3,534	430	(3.2)	(2.8)	1,222	(1.0)	(0.9)
Puttalam	643	1,986	1,277	(1.1)	(1.1)	65	3,653	184	(1.4)	(1.2)	1,461	(1.2)	(1.1)
North Central	20,914	2,726	57,013	(51.1)	(49.7)	761	2,519	1,917	(14.2)	(12.7)	58,930	(47.2)	(45.4)
Anuradhapura	20,170	2,725	54,972	(49.3)	(47.9)	395	4,450	888	(6.6)	(5.9)	55,860	(44.7)	(43.0)
Polonnarwa	744	2,743	2,041	(1.8)	(1.8)	366	4,737	1,029	(7.6)	(6.8)	3,070	(2.5)	(2.4)
Uva	14,008	2,321	32,517	(29.2)	(28.4)	2,509	3,268	8,199	(60.8)	(54.2)	40,716	(32.6)	(31.4)
Badulla	4,120	1,958	8,065	(7.2)	(7.0)	2,305	4,673	7,751	(57.5)	(51.3)	15,816	(12.7)	(12.2)
Moneragala	9,888	2,473	24,452	(21.9)	(21.3)	204	3,645	448	(3.3)	(3.0)	24,900	(19.9)	(19.2)
Mahaweli "H" area	546	2,022	1,104	(1.0)	(1.0)	880	4,821	2,200	(16.3)	(14.6)	3,304	(2.6)	(2.5)
5 provinces Total	42,993	2,593	111,498	(100.0)	(97.2)	5,047	2,671	13,481	(100.0)	(89.2)	124,979	(100.0)	(96.3)
Other provinces	1,791	1,763	3,157		(2.8)	1,024	1,595	1,633		(10.8)	4,790		(3.7)
of which Colombo dist	0	0	0		(0.0)	0	3,004	0		(0.0)	0		(0.0)
Sri Lanka Total	44,784	2,560	114,655		(100.0)	6,071	4,187	15,114		(100.0)	129,769		(100.0)

**Table A 3.9 Production of Paddy and OFCs in the Survey Area
in Maha 2008/09 and Yala 2009 (2/6)**

Crop Province District	Maha 2008/2009					Yala 2009					Total Production			
	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)	
			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)				
Sorghum														
North	42	976	41	(59.4)	(30.4)	0		0	(0.0)	(0.0)	41	(50.0)	(23.7)	
Jaffna	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Manner	2	1,000	2	(2.9)	(1.5)	0		0	(0.0)	(0.0)	2	(2.4)	(1.2)	
Vauniya	40	975	39	(56.5)	(28.9)	0	3,998	0	(0.0)	(0.0)	39	(47.6)	(22.5)	
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
East	2	1,000	2	(2.9)	(1.5)	3	667	2	(15.4)	(5.3)	4	(4.9)	(2.3)	
Batticaloa	2	1,000	2	(2.9)	(1.5)	3	4,189	2	(15.4)	(5.3)	4	(4.9)	(2.3)	
Ampara	0		0	(0.0)	(0.0)	0	4,964	0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Trincomalee	0		0	(0.0)	(0.0)	0	4,851	0	(0.0)	(0.0)	0	(0.0)	(0.0)	
North-Western	0		0	(0.0)	(0.0)	2	500	1	(7.7)	(2.6)	1	(1.2)	(0.6)	
Kurunegala	0		0	(0.0)	(0.0)	2	3,534	1	(7.7)	(2.6)	1	(1.2)	(0.6)	
Puttalam	0		0	(0.0)	(0.0)	0	3,653	0	(0.0)	(0.0)	0	(0.0)	(0.0)	
North Central	23	1,087	25	(36.2)	(18.5)	6	1,333	8	(61.5)	(21.1)	33	(40.2)	(19.1)	
Anuradhapura	19	1,105	21	(30.4)	(15.6)	4	4,450	5	(38.5)	(13.2)	26	(31.7)	(15.0)	
Polonnarwa	4	1,000	4	(5.8)	(3.0)	2	4,737	3	(23.1)	(7.9)	7	(8.5)	(4.0)	
Uva	1	1,000	1	(1.4)	(0.7)	1	2,000	2	(15.4)	(5.3)	3	(3.7)	(1.7)	
Badulla	1	1,000	1	(1.4)	(0.7)	1	4,673	2	(15.4)	(5.3)	3	(3.7)	(1.7)	
Moneragala	0		0	(0.0)	(0.0)	0	3,645	0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Mahaweli "H" area	0		0	(0.0)	(0.0)	0	4,821	0	(0.0)	(0.0)	0	(0.0)	(0.0)	
5 provinces Total	68	1,015	69	(100.0)	(51.1)	12	1,083	13	(100.0)	(34.2)	82	(100.0)	(47.4)	
Other provinces	40	1,650	66		(48.9)	19	1,316	25		(65.8)	91		(52.6)	
of which Colombo dist	0		0		(0.0)	0	3,004	0		(0.0)	0		(0.0)	
Sri Lanka Total	108	1,250	135		(100.0)	31	4,187	38		(100.0)	173		(100.0)	
Meneri														
North	1	1,000	1	(100.0)	(16.7)	4	750	3	(25.0)	(21.4)	4	(30.8)	(20.0)	
Jaffna	1	1,000	1	(100.0)	(16.7)	4	750	3	(25.0)	(21.4)	4	(30.8)	(20.0)	
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Manner	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Vauniya	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
East	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Batticaloa	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Ampara	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Trincomalee	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
North-Western	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Kurunegala	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Puttalam	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
North Central	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Anuradhapura	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Polonnarwa	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Uva	0		0	(0.0)	(0.0)	12	750	9	(75.0)	(64.3)	9	(69.2)	(45.0)	
Badulla	0		0	(0.0)	(0.0)	2	500	1	(8.3)	(7.1)	1	(7.7)	(5.0)	
Moneragala	0		0	(0.0)	(0.0)	10	800	8	(66.7)	(57.1)	8	(61.5)	(40.0)	
Mahaweli "H" area	0		0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)	
5 provinces Total	1	1,000	1	(100.0)	(16.7)	16	750	12	(100.0)	(85.7)	13	(100.0)	(65.0)	
Other provinces	9	556	5		(83.3)	2	1,000	2		(14.3)	7		(35.0)	
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)	
Sri Lanka Total	10	600	6		(100.0)	18	778	14		(100.0)	20		(100.0)	
Green gram														
North	365	860	314	(5.6)	(4.2)	97	835	81	(6.9)	(4.6)	395	(5.8)	(4.3)	
Jaffna	74	716	53	(0.9)	(0.7)	72	806	58	(4.9)	(3.3)	111	(1.6)	(1.2)	
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
Manner	13	1,077	14	(0.2)	(0.2)	6	1,000	6	(0.5)	(0.3)	20	(0.3)	(0.2)	
Vauniya	278	888	247	(4.4)	(3.3)	19	895	17	(1.4)	(1.0)	264	(3.9)	(2.9)	
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)	
East	502	1,018	511	(9.1)	(6.8)	155	1,006	156	(13.2)	(9.0)	667	(9.8)	(7.2)	
Batticaloa	30	467	14	(0.2)	(0.2)	7	429	3	(0.3)	(0.2)	17	(0.3)	(0.2)	
Ampara	406	1,064	432	(7.7)	(5.7)	135	1,037	140	(11.9)	(8.0)	572	(8.4)	(6.2)	
Trincomalee	66	985	65	(1.2)	(0.9)	13	1,000	13	(1.1)	(0.7)	78	(1.1)	(0.8)	
North-Western	1,650	719	1,186	(21.1)	(15.8)	781	526	411	(34.8)	(23.6)	1,597	(23.5)	(17.2)	
Kurunegala	1,297	551	715	(12.7)	(9.5)	627	419	263	(22.3)	(15.1)	978	(14.4)	(10.6)	
Puttalam	353	1,334	471	(8.4)	(6.3)	154	961	148	(12.5)	(8.5)	619	(9.1)	(6.7)	
North Central	810	1,279	1,036	(18.5)	(13.8)	132	1,167	154	(13.1)	(8.8)	1,190	(17.5)	(12.9)	
Anuradhapura	638	1,223	780	(13.9)	(10.4)	74	932	69	(5.8)	(4.0)	849	(12.5)	(9.2)	
Polonnarwa	172	1,488	256	(4.6)	(3.4)	58	1,466	85	(7.2)	(4.9)	341	(5.0)	(3.7)	
Uva	1,744	1,393	2,430	(43.3)	(32.3)	163	1,166	190	(16.1)	(10.9)	2,620	(38.6)	(28.3)	
Badulla	101	1,119	113	(2.0)	(1.5)	82	963	79	(6.7)	(4.5)	192	(2.8)	(2.1)	
Moneragala	1,643	1,410	2,317	(41.3)	(30.8)	81	1,370	111	(9.4)	(6.4)	2,428	(35.8)	(26.2)	
Mahaweli "H" area	88	1,489	131	(2.3)	(1.7)	125	1,504	188	(15.9)	(10.8)	319	(4.7)	(3.4)	
5 provinces Total	5,159	1,087	5,608	(100.0)	(74.6)	1,453	812	1,180	(100.0)	(67.7)	6,788	(100.0)	(73.3)	
Other provinces	1,515	1,259	1,908		(25.4)	442	1,271	562		(32.3)	2,470		(26.7)	
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)	
Sri Lanka Total	6,674	1,126	7,516		(100.0)	1,895	919	1,742		(100.0)	9,258		(100.0)	

**Table A 3.9 Production of Paddy and OFCs in the Survey Area
in Maha 2008/09 and Yala 2009 (3/6)**

Crop Province District	Maha 2008/2009					Yala 2009					Total Production		
	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)
			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			
Cowpea													
North	352	821	289	(3.2)	(2.9)	50	920	46	(1.5)	(1.3)	335	(2.7)	(2.5)
Jaffna	54	833	45	(0.5)	(0.4)	9	1,333	12	(0.4)	(0.4)	57	(0.5)	(0.4)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	20	1,250	25	(0.3)	(0.2)	3	1,333	4	(0.1)	(0.1)	29	(0.2)	(0.2)
Vauniya	278	788	219	(2.4)	(2.2)	38	789	30	(1.0)	(0.9)	249	(2.0)	(1.8)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	3,040	1,447	4,400	(48.1)	(43.7)	1,091	1,222	1,333	(43.6)	(38.9)	5,733	(47.0)	(42.5)
Batticaloa	38	447	17	(0.2)	(0.2)	2	500	1	(0.0)	(0.0)	18	(0.1)	(0.1)
Ampara	2,918	1,472	4,296	(47.0)	(42.7)	1,074	1,226	1,317	(43.1)	(38.5)	5,613	(46.0)	(41.6)
Trincomalee	84	1,036	87	(1.0)	(0.9)	15	1,000	15	(0.5)	(0.4)	102	(0.8)	(0.8)
North-Western	1,141	638	728	(8.0)	(7.2)	567	769	436	(14.3)	(12.7)	1,164	(9.5)	(8.6)
Kurunegala	892	482	430	(4.7)	(4.3)	460	700	322	(10.5)	(9.4)	752	(6.2)	(5.6)
Puttalam	249	1,197	298	(3.3)	(3.0)	107	1,065	114	(3.7)	(3.3)	412	(3.4)	(3.1)
North Central	1,313	1,232	1,618	(17.7)	(16.1)	138	1,333	184	(6.0)	(5.4)	1,802	(14.8)	(13.4)
Anuradhapura	1,089	1,208	1,315	(14.4)	(13.1)	86	1,302	112	(3.7)	(3.3)	1,427	(11.7)	(10.6)
Polonnarwa	224	1,353	303	(3.3)	(3.0)	52	1,385	72	(2.4)	(2.1)	375	(3.1)	(2.8)
Uva	1,752	1,081	1,894	(20.7)	(18.8)	391	1,000	391	(12.8)	(11.4)	2,285	(18.7)	(16.9)
Badulla	224	1,098	246	(2.7)	(2.4)	92	978	90	(2.9)	(2.6)	336	(2.8)	(2.5)
Moneragala	1,528	1,079	1,648	(18.0)	(16.4)	299	1,007	301	(9.8)	(8.8)	1,949	(16.0)	(14.5)
Mahaweli "H" area	143	1,503	215	(2.4)	(2.1)	445	1,499	667	(21.8)	(19.5)	882	(7.2)	(6.5)
5 provinces Total	7,741	1,181	9,144	(100.0)	(90.9)	2,682	1,140	3,057	(100.0)	(89.3)	12,201	(100.0)	(90.5)
Other provinces	747	1,229	918		(9.1)	269	1,361	366		(10.7)	1,284		(9.5)
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)
Sri Lanka Total	8,488	1,185	10,062		(100.0)	2,951	1,160	3,423		(100.0)	13,485		(100.0)
Gingelly													
North	650	628	408	(37.6)	(27.6)	168	667	112	(1.6)	(1.6)	520	(6.6)	(6.1)
Jaffna	283	671	190	(17.5)	(12.9)	111	712	79	(1.2)	(1.1)	269	(3.4)	(3.2)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	1	1,000	1	(0.1)	(0.1)	5	400	2	(0.0)	(0.0)	3	(0.0)	(0.0)
Vauniya	366	593	217	(20.0)	(14.7)	52	596	31	(0.5)	(0.4)	248	(3.1)	(2.9)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	92	587	54	(5.0)	(3.7)	8	500	4	(0.1)	(0.1)	58	(0.7)	(0.7)
Batticaloa	13	308	4	(0.4)	(0.3)	5	400	2	(0.0)	(0.0)	6	(0.1)	(0.1)
Ampara	69	580	40	(3.7)	(2.7)	1	0	0	(0.0)	(0.0)	40	(0.5)	(0.5)
Trincomalee	10	1,000	10	(0.9)	(0.7)	2	1,000	2	(0.0)	(0.0)	12	(0.2)	(0.1)
North-Western	461	607	280	(25.8)	(19.0)	335	400	134	(2.0)	(1.9)	414	(5.2)	(4.9)
Kurunegala	249	398	99	(9.1)	(6.7)	217	258	56	(0.8)	(0.8)	155	(2.0)	(1.8)
Puttalam	212	854	181	(16.7)	(12.3)	118	661	78	(1.1)	(1.1)	259	(3.3)	(3.0)
North Central	189	873	165	(15.2)	(11.2)	6,397	864	5,530	(81.0)	(78.5)	5,695	(72.0)	(66.8)
Anuradhapura	167	904	151	(13.9)	(10.2)	6,379	865	5,518	(80.8)	(78.3)	5,669	(71.7)	(66.5)
Polonnarwa	22	636	14	(1.3)	(0.9)	18	667	12	(0.2)	(0.2)	26	(0.3)	(0.3)
Uva	281	623	175	(16.1)	(11.8)	1,196	859	1,027	(15.0)	(14.6)	1,202	(15.2)	(14.1)
Badulla	1	1,000	1	(0.1)	(0.1)	627	933	585	(8.6)	(8.3)	586	(7.4)	(6.9)
Moneragala	280	621	174	(16.1)	(11.8)	569	777	442	(6.5)	(6.3)	616	(7.8)	(7.2)
Mahaweli "H" area	3	667	2	(0.2)	(0.1)	34	529	18	(0.3)	(0.3)	20	(0.3)	(0.2)
5 provinces Total	1,676	647	1,084	(100.0)	(73.4)	8,138	839	6,825	(100.0)	(96.8)	7,909	(100.0)	(92.8)
Other provinces	736	534	393		(26.6)	331	674	223		(3.2)	616		(7.2)
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)
Sri Lanka Total	2,412	612	1,477		(100.0)	8,469	832	7,048		(100.0)	8,525		(100.0)
Groundnuts													
North	471	1,064	501	(5.4)	(4.9)	208	1,029	214	(9.0)	(7.4)	715	(6.2)	(5.5)
Jaffna	13	308	4	(0.0)	(0.0)	20	450	9	(0.4)	(0.3)	13	(0.1)	(0.1)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	35	1,086	38	(0.4)	(0.4)	18	1,111	20	(0.8)	(0.7)	58	(0.5)	(0.4)
Vauniya	423	1,085	459	(5.0)	(4.5)	170	1,088	185	(7.8)	(6.4)	644	(5.5)	(4.9)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	1,013	1,667	1,689	(18.3)	(16.6)	65	1,031	67	(2.8)	(2.3)	1,756	(15.1)	(13.4)
Batticaloa	157	554	87	(0.9)	(0.9)	16	875	14	(0.6)	(0.5)	101	(0.9)	(0.8)
Ampara	607	2,178	1,322	(14.3)	(13.0)	20	1,100	22	(0.9)	(0.8)	1,344	(11.6)	(10.3)
Trincomalee	249	1,124	280	(3.0)	(2.7)	29	1,069	31	(1.3)	(1.1)	311	(2.7)	(2.4)
North-Western	1,365	720	983	(10.6)	(9.6)	1,063	1,435	1,525	(64.3)	(53.1)	2,508	(21.6)	(19.2)
Kurunegala	911	420	383	(4.1)	(3.8)	879	1,499	1,318	(55.5)	(45.9)	1,701	(14.7)	(13.0)
Puttalam	454	1,322	600	(6.5)	(5.9)	184	1,125	207	(8.7)	(7.2)	807	(7.0)	(6.2)
North Central	836	1,728	1,445	(15.7)	(14.2)	90	1,511	136	(5.7)	(4.7)	1,581	(13.6)	(12.1)
Anuradhapura	475	1,486	706	(7.6)	(6.9)	23	1,478	34	(1.4)	(1.2)	740	(6.4)	(5.7)
Polonnarwa	361	2,047	739	(8.0)	(7.2)	67	1,522	102	(4.3)	(3.5)	841	(7.2)	(6.4)
Uva	2,397	1,866	4,472	(48.4)	(43.8)	281	1,278	359	(15.1)	(12.5)	4,831	(41.6)	(36.9)
Badulla	67	1,836	123	(1.3)	(1.2)	43	2,395	103	(4.3)	(3.6)	226	(1.9)	(1.7)
Moneragala	2,330	1,867	4,349	(47.1)	(42.6)	238	1,076	256	(10.8)	(8.9)	4,605	(39.7)	(35.2)
Mahaweli "H" area	59	2,407	142	(1.5)	(1.4)	30	2,400	72	(3.0)	(2.5)	214	(1.8)	(1.6)
5 provinces Total	6,141	1,503	9,232	(100.0)	(90.5)	1,737	1,366	2,373	(100.0)	(82.6)	11,605	(100.0)	(88.7)
Other provinces	736	1,319	971		(9.5)	388	1,291	501		(17.4)	1,472		(11.3)
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)
Sri Lanka Total	6,877	1,484	10,203		(100.0)	2,125	1,352	2,874		(100.0)	13,077		(100.0)

**Table A 3.9 Production of Paddy and OFCs in the Survey Area
in Maha 2008/09 and Yala 2009 (4/6)**

Crop Province District	Maha 2008/2009					Yala 2009					Total Production		
	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)
			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			
Manioc													
North	435	11,126	4,840	(4.4)	(2.7)	305	13,866	4,229	(9.4)	(4.3)	9,069	(5.8)	(3.3)
Jaffna	280	15,350	4,298	(3.9)	(2.4)	230	11,496	2,644	(5.9)	(2.7)	6,942	(4.5)	(2.5)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	17	13,882	236	(0.2)	(0.1)	10	24,200	242	(0.5)	(0.2)	478	(0.3)	(0.2)
Vauniya	138	2,217	306	(0.3)	(0.2)	65	20,662	1,343	(3.0)	(1.4)	1,649	(1.1)	(0.6)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	1,432	10,076	14,429	(13.1)	(8.1)	590	9,849	5,811	(12.9)	(5.9)	20,240	(13.0)	(7.3)
Batticaloa	475	11,499	5,462	(4.9)	(3.1)	223	12,578	2,805	(6.2)	(2.8)	8,267	(5.3)	(3.0)
Ampara	623	7,541	4,698	(4.3)	(2.6)	207	6,990	1,447	(3.2)	(1.5)	6,145	(4.0)	(2.2)
Trincomalee	334	12,781	4,269	(3.9)	(2.4)	160	9,744	1,559	(3.5)	(1.6)	5,828	(3.7)	(2.1)
North-Western	2,571	8,877	22,823	(20.7)	(12.8)	1,784	7,323	13,064	(29.1)	(13.2)	35,887	(23.1)	(12.9)
Kurunegala	1,954	8,001	15,634	(14.2)	(8.7)	1,362	6,349	8,647	(19.2)	(8.7)	24,281	(15.6)	(8.7)
Puttalam	617	11,652	7,189	(6.5)	(4.0)	422	10,467	4,417	(9.8)	(4.5)	11,606	(7.5)	(4.2)
North Central	1,496	14,899	22,289	(20.2)	(12.5)	588	12,139	7,138	(15.9)	(7.2)	29,427	(18.9)	(10.6)
Anuradhapura	928	14,070	13,057	(11.8)	(7.3)	351	11,345	3,982	(8.9)	(4.0)	17,039	(11.0)	(6.1)
Polonnarwa	568	16,254	9,232	(8.4)	(5.2)	237	13,316	3,156	(7.0)	(3.2)	12,388	(8.0)	(4.5)
Uva	2,867	15,302	43,871	(39.7)	(24.5)	1,020	14,006	14,286	(31.8)	(14.4)	58,157	(37.4)	(20.9)
Badulla	1,113	13,827	15,390	(13.9)	(8.6)	559	14,179	7,926	(17.6)	(8.0)	23,316	(15.0)	(8.4)
Moneragala	1,754	16,238	28,481	(25.8)	(15.9)	461	13,796	6,360	(14.1)	(6.4)	34,841	(22.4)	(12.5)
Mahaweli "H" area	127	17,559	2,230	(2.0)	(1.2)	24	17,667	424	(0.9)	(0.4)	2,654	(1.7)	(1.0)
5 provinces Total	8,928	12,375	110,482	(100.0)	(61.8)	4,311	10,427	44,952	(100.0)	(45.3)	155,434	(100.0)	(55.9)
Other provinces	5,778	11,808	68,225		(38.2)	4,847	11,180	54,188		(54.7)	122,413		(44.1)
of which Colombo dist	285	10,782	3,073		(1.7)	243	13,045	3,170		(3.2)	6,243		(2.2)
Sri Lanka Total	14,706	12,152	178,707			9,158	10,826	99,140			277,847		(100.0)
Sweet potatoes													
North	23	11,000	253	(1.7)	(0.9)	4	10,500	42	(0.4)	(0.2)	295	(1.2)	(0.6)
Jaffna	5	12,600	63	(0.4)	(0.2)	1	7,000	7	(0.1)	(0.0)	70	(0.3)	(0.1)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	3	10,000	30	(0.2)	(0.1)	1	11,000	11	(0.1)	(0.1)	41	(0.2)	(0.1)
Vauniya	15	10,667	160	(1.1)	(0.6)	2	12,000	24	(0.2)	(0.1)	184	(0.7)	(0.4)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	301	7,664	2,307	(15.2)	(8.5)	83	6,554	544	(5.5)	(2.7)	2,851	(11.4)	(6.0)
Batticaloa	77	4,195	323	(2.1)	(1.2)	36	3,694	133	(1.3)	(0.7)	456	(1.8)	(1.0)
Ampara	177	8,316	1,472	(9.7)	(5.5)	30	9,633	289	(2.9)	(1.4)	1,761	(7.0)	(3.7)
Trincomalee	47	10,894	512	(3.4)	(1.9)	17	7,176	122	(1.2)	(0.6)	634	(2.5)	(1.3)
North-Western	670	6,249	4,187	(27.6)	(15.5)	544	5,965	3,245	(32.8)	(16.0)	7,432	(29.6)	(15.7)
Kurunegala	597	5,995	3,579	(23.6)	(13.3)	489	5,699	2,787	(28.1)	(13.7)	6,366	(25.4)	(13.5)
Puttalam	73	8,329	608	(4.0)	(2.3)	55	8,327	458	(4.6)	(2.3)	1,066	(4.3)	(2.3)
North Central	352	10,313	3,630	(23.9)	(13.4)	173	12,850	2,223	(22.4)	(11.0)	5,853	(23.3)	(12.4)
Anuradhapura	169	9,669	1,634	(10.8)	(6.1)	57	8,070	460	(4.6)	(2.3)	2,094	(8.4)	(4.4)
Polonnarwa	183	10,907	1,996	(13.2)	(7.4)	116	15,198	1,763	(17.8)	(8.7)	3,759	(15.0)	(8.0)
Uva	542	8,795	4,767	(31.4)	(17.7)	243	9,350	2,272	(22.9)	(11.2)	7,039	(28.1)	(14.9)
Badulla	356	8,126	2,893	(19.1)	(10.7)	189	7,910	1,495	(15.1)	(7.4)	4,388	(17.5)	(9.3)
Moneragala	186	10,075	1,874	(12.4)	(6.9)	54	14,389	777	(7.8)	(3.8)	2,651	(10.6)	(5.6)
Mahaweli "H" area	22	1,000	22	(0.1)	(0.1)	79	20,000	1,580	(15.9)	(7.8)	1,602	(6.4)	(3.4)
5 provinces Total	1,910	7,940	15,166	(100.0)	(56.2)	1,126	8,798	9,906	(100.0)	(48.9)	25,072	(100.0)	(53.0)
Other provinces	1,603	7,379	11,828		(43.8)	1,366	7,593	10,372		(51.1)	22,200		(47.0)
of which Colombo dist	26	7,038	183		(0.7)	29	9,966	289		(1.4)	472		(1.0)
Sri Lanka Total	3,513	7,684	26,994			2,492	8,137	20,278			47,272		(100.0)
Potatoes													
North	28	7,714	216	(1.0)	(0.8)	0	0	0	(0.0)	(0.0)	216	(0.4)	(0.4)
Jaffna	28	7,714	216	(1.0)	(0.8)	0	0	0	(0.0)	(0.0)	216	(0.4)	(0.4)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Vauniya	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Batticaloa	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Ampara	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Trincomalee	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
North-Western	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Kurunegala	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Puttalam	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
North Central	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Anuradhapura	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Polonnarwa	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Uva	1,518	14,150	21,480	(99.0)	(78.2)	1,827	15,053	27,502	(100.0)	(80.3)	48,982	(99.6)	(79.4)
Badulla	1,518	14,150	21,480	(99.0)	(78.2)	1,827	15,053	27,502	(100.0)	(80.3)	48,982	(99.6)	(79.4)
Moneragala	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Mahaweli "H" area	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
5 provinces Total	1,546	14,034	21,696	(100.0)	(79.0)	1,827	15,053	27,502	(100.0)	(80.3)	49,198	(100.0)	(79.7)
Other provinces	340	16,929	5,756		(21.0)	426	15,847	6,751		(19.7)	12,507		(20.3)
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)
Sri Lanka Total	1,886	14,556	27,452			2,253	15,203	34,253			61,705		(100.0)

**Table A 3.9 Production of Paddy and OFCs in the Survey Area
in Maha 2008/09 and Yala 2009 (5/6)**

Crop Province District	Maha 2008/2009					Yala 2009					Total Production		
	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)
			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			
Red onion													
North	651	10,513	6,844	(34.6)	(32.5)	805	11,529	9,281	(38.5)	(36.8)	16,125	(36.8)	(34.9)
Jaffna	603	10,201	6,151	(31.1)	(29.2)	446	8,800	3,925	(16.3)	(15.6)	10,076	(23.0)	(21.8)
Kilinochchi	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	4	5,750	23	(0.1)	(0.1)	8	4,375	35	(0.1)	(0.1)	58	(0.1)	(0.1)
Vauniya	44	15,227	670	(3.4)	(3.2)	351	15,160	5,321	(22.1)	(21.1)	5,991	(13.7)	(13.0)
Mullaitive	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	211	9,180	1,937	(9.8)	(9.2)	149	8,309	1,238	(5.1)	(4.9)	3,175	(7.2)	(6.9)
Batticaloa	34	7,029	239	(1.2)	(1.1)	58	8,069	468	(1.9)	(1.9)	707	(1.6)	(1.5)
Ampara	27	4,926	133	(0.7)	(0.6)	5	4,800	24	(0.1)	(0.1)	157	(0.4)	(0.3)
Trincomalee	150	10,433	1,565	(7.9)	(7.4)	86	8,674	746	(3.1)	(3.0)	2,311	(5.3)	(5.0)
North-Western	899	9,924	8,922	(45.2)	(42.4)	1,004	11,422	11,468	(47.6)	(45.5)	20,390	(46.5)	(44.1)
Kurunegala	69	2,826	195	(1.0)	(0.9)	65	3,354	218	(0.9)	(0.9)	413	(0.9)	(0.9)
Puttalam	830	10,514	8,727	(44.2)	(41.5)	939	11,981	11,250	(46.7)	(44.7)	19,977	(45.5)	(43.2)
North Central	56	10,446	585	(3.0)	(2.8)	44	9,545	420	(1.7)	(1.7)	1,005	(2.3)	(2.2)
Anuradhapura	23	8,696	200	(1.0)	(1.0)	32	9,375	300	(1.2)	(1.2)	500	(1.1)	(1.1)
Polonnarwa	33	11,667	385	(1.9)	(1.8)	12	10,000	120	(0.5)	(0.5)	505	(1.2)	(1.1)
Uva	150	9,327	1,399	(7.1)	(6.6)	119	8,319	990	(4.1)	(3.9)	2,389	(5.4)	(5.2)
Badulla	78	8,577	669	(3.4)	(3.2)	68	7,147	486	(2.0)	(1.9)	1,155	(2.6)	(2.5)
Moneragala	72	10,139	730	(3.7)	(3.5)	51	9,882	504	(2.1)	(2.0)	1,234	(2.8)	(2.7)
Mahaweli "H" area	6	11,167	67	(0.3)	(0.3)	60	11,917	715	(3.0)	(2.8)	782	(1.8)	(1.7)
5 provinces Total	1,973	10,012	19,754	(100.0)	(93.9)	2,181	11,055	24,112	(100.0)	(95.7)	43,866	(100.0)	(94.9)
Other provinces	202	6,371	1,287		(6.1)	142	7,613	1,081		(4.3)	2,368		(5.1)
of which Colombo dist	0	0	0		(0.0)	0	0	0		(0.0)	0		(0.0)
Sri Lanka Total	2,175	9,674	21,041		(100.0)	2,323	10,845	25,193		(100.0)	46,234		(100.0)
Big onion													
North	62	6,887	427	(41.2)	(31.7)	53	10,679	566	(2.0)	(0.7)	993	(3.4)	(1.2)
Jaffna	52	6,731	350	(33.8)	(26.0)	28	11,286	316	(1.1)	(0.4)	666	(2.3)	(0.8)
Kilinochchi	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	1	5,000	5	(0.5)	(0.4)	0	#DIV/0!	0	(0.0)	(0.0)	5	(0.0)	(0.0)
Vauniya	9	8,000	72	(6.9)	(5.3)	25	10,000	250	(0.9)	(0.3)	322	(1.1)	(0.4)
Mullaitive	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	2	10,000	20	(1.9)	(1.5)	5	12,000	60	(0.2)	(0.1)	80	(0.3)	(0.1)
Batticaloa	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Ampara	2	10,000	20	(1.9)	(1.5)	1	11,000	11	(0.0)	(0.0)	31	(0.1)	(0.0)
Trincomalee	0	0	0	(0.0)	(0.0)	4	0	49	(0.2)	(0.1)	49	(0.2)	(0.1)
North-Western	40	4,300	172	(16.6)	(12.8)	175	5,994	1,049	(3.7)	(1.3)	1,221	(4.1)	(1.5)
Kurunegala	40	4,300	172	(16.6)	(12.8)	175	5,994	1,049	(3.7)	(1.3)	1,221	(4.1)	(1.5)
Puttalam	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
North Central	32	12,875	412	(39.7)	(30.6)	1,332	14,167	18,870	(66.1)	(23.5)	19,282	(65.1)	(23.6)
Anuradhapura	18	13,056	235	(22.7)	(17.4)	1,284	14,333	18,404	(64.4)	(22.9)	18,639	(63.0)	(22.8)
Polonnarwa	14	12,643	177	(17.1)	(13.1)	48	9,708	466	(1.6)	(0.6)	643	(2.2)	(0.8)
Uva	1	6,000	6	(0.6)	(0.4)	2	6,500	13	(0.0)	(0.0)	19	(0.1)	(0.0)
Badulla	1	6,000	6	(0.6)	(0.4)	2	6,500	13	(0.0)	(0.0)	19	(0.1)	(0.0)
Moneragala	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Mahaweli "H" area	0	0	0	(0.0)	(0.0)	492	0	8,004	(28.0)	(10.0)	8,004	(27.0)	(9.8)
5 provinces Total	137	7,569	1,037	(100.0)	(77.0)	2,059	13,872	28,562	(100.0)	(35.5)	29,599	(100.0)	(36.2)
Other provinces	45	6,889	310		(23.0)	2,840	18,239	51,798		(64.5)	52,108		(63.8)
of which Colombo dist	0	0	0		(0.0)	0	0	0		(0.0)	0		(0.0)
Sri Lanka Total	182	7,401	1,347		(100.0)	4,899	16,403	80,360		(100.0)	81,707		(100.0)
Chillies (green)													
North	583	4,360	2,542	(9.5)	(7.6)	245	2,820	691	(8.4)	(5.2)	3,233	(9.3)	(7.0)
Jaffna	227	2,441	554	(2.1)	(1.7)	177	1,678	297	(3.6)	(2.3)	851	(2.4)	(1.8)
Kilinochchi	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	34	2,324	79	(0.3)	(0.2)	16	5,313	85	(1.0)	(0.6)	164	(0.5)	(0.4)
Vauniya	322	5,929	1,909	(7.2)	(5.7)	52	5,942	309	(3.8)	(2.3)	2,218	(6.4)	(4.8)
Mullaitive	0	0	0	(0.0)	(0.0)	0	0	0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	548	2,369	1,298	(4.9)	(3.9)	179	2,106	377	(4.6)	(2.9)	1,675	(4.8)	(3.6)
Batticaloa	115	1,339	154	(0.6)	(0.5)	70	2,143	150	(1.8)	(1.1)	304	(0.9)	(0.7)
Ampara	314	3,204	1,006	(3.8)	(3.0)	60	2,533	152	(1.9)	(1.2)	1,158	(3.3)	(2.5)
Trincomalee	119	1,160	138	(0.5)	(0.4)	49	1,531	75	(0.9)	(0.6)	213	(0.6)	(0.5)
North-Western	1,590	2,040	3,244	(12.2)	(9.8)	1,176	3,663	4,308	(52.6)	(32.7)	7,552	(21.7)	(16.3)
Kurunegala	761	800	609	(2.3)	(1.8)	607	1,601	972	(11.9)	(7.4)	1,581	(4.5)	(3.4)
Puttalam	829	3,179	2,635	(9.9)	(7.9)	569	5,863	3,336	(40.7)	(25.3)	5,971	(17.1)	(12.9)
North Central	3,402	4,413	15,014	(56.3)	(45.2)	360	4,886	1,759	(21.5)	(13.4)	16,773	(48.1)	(36.1)
Anuradhapura	3,183	4,380	13,943	(52.3)	(41.9)	284	4,394	1,248	(15.2)	(9.5)	15,191	(43.6)	(32.7)
Polonnarwa	219	4,890	1,071	(4.0)	(3.2)	76	6,724	511	(6.2)	(3.9)	1,582	(4.5)	(3.4)
Uva	1,250	3,520	4,400	(16.5)	(13.2)	360	2,475	891	(10.9)	(6.8)	5,291	(15.2)	(11.4)
Badulla	417	2,403	1,002	(3.8)	(3.0)	223	2,242	500	(6.1)	(3.8)	1,502	(4.3)	(3.2)
Moneragala	833	4,079	3,398	(12.7)	(10.2)	137	2,854	391	(4.8)	(3.0)	3,789	(10.9)	(8.2)
Mahaweli "H" area	143	1,252	179	(0.7)	(0.5)	129	1,248	161	(2.0)	(1.2)	340	(1.0)	(0.7)
5 provinces Total	7,516	3,549	26,677	(100.0)	(80.2)	2,449	3,343	8,187	(100.0)	(62.2)	34,864	(100.0)	(75.1)
Other provinces	1,963	3,346	6,569		(19.8)	1,626	3,063	4,981		(37.8)	11,550		(24.9)
of which Colombo dist	37	0	89		(0.3)	33	2,697	89		(0.7)	178		(0.4)
Sri Lanka Total	9,479	3,507	33,246		(100.0)	4,075	3,231	13,168		(100.0)	46,414		(100.0)

**Table A 3.9 Production of Paddy and OFCs in the Survey Area
in Maha 2008/09 and Yala 2009 (6/6)**

Crop Province District	Maha 2008/2009					Yala 2009					Total Production		
	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)
			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)*	Share in S. Area (%)	Share in Sri Lanka (%)			
Mustard													
North	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Jaffna	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Manner	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Vauniya	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Mullaitive	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
East	2	1,500	3	(1.3)	(1.1)	0		0	(0.0)	(0.0)	3	(1.2)	(1.0)
Batticaloa	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Ampara	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Trincomalee	2	1,500	3	(1.3)	(1.1)	0		0	(0.0)	(0.0)	3	(1.2)	(1.0)
North-Western	8	1,750	14	(6.1)	(5.0)	3	333	1	(10.0)	(4.5)	15	(6.2)	(5.0)
Kurunegala	0		0	(0.0)	(0.0)	3	333	1	(10.0)	(4.5)	1	(0.4)	(0.3)
Puttalam	8	1,750	14	(6.1)	(5.0)	0		0	(0.0)	(0.0)	14	(5.8)	(4.6)
North Central	241	759	183	(79.2)	(65.1)	8	750	6	(60.0)	(27.3)	189	(78.4)	(62.4)
Anuradhapura	221	778	172	(74.5)	(61.2)	8	750	6	(60.0)	(27.3)	178	(73.9)	(58.7)
Polonnarwa	20	550	11	(4.8)	(3.9)	0		0	(0.0)	(0.0)	11	(4.6)	(3.6)
Uva	26	1,192	31	(13.4)	(11.0)	12	250	3	(30.0)	(13.6)	34	(14.1)	(11.2)
Badulla	26	1,192	31	(13.4)	(11.0)	12	250	3	(30.0)	(13.6)	34	(14.1)	(11.2)
Moneragala	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
Mahaweli "H" area	0		0	(0.0)	(0.0)	0		0	(0.0)	(0.0)	0	(0.0)	(0.0)
5 provinces Total	277	834	231	(100.0)	(82.2)	23	435	10	(100.0)	(45.5)	241	(100.0)	(79.5)
Other provinces	46	1,087	50		(17.8)	18	667	12		(54.5)	62		(20.5)
of which Colombo dist	0		0		(0.0)	0		0		(0.0)	0		(0.0)
Sri Lanka Total	323	870	281		(100.0)	41	537	22		(100.0)	303		(100.0)
Ginger													
North	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Jaffna	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Manner	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Vauniya	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Mullaitive	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
East	7	4,429	31	(4.0)	(0.3)	0		0	-	-	31	(4.0)	(0.3)
Batticaloa	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Ampara	7	4,429	31	(4.0)	(0.3)	0		0	-	-	31	(4.0)	(0.3)
Trincomalee	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
North-Western	419	974	408	(52.2)	(3.8)	0		0	-	-	408	(52.2)	(3.8)
Kurunegala	395	600	237	(30.3)	(2.2)	0		0	-	-	237	(30.3)	(2.2)
Puttalam	24	7,125	171	(21.9)	(1.6)	0		0	-	-	171	(21.9)	(1.6)
North Central	17	5,294	90	(11.5)	(0.8)	0		0	-	-	90	(11.5)	(0.8)
Anuradhapura	3	8,667	26	(3.3)	(0.2)	0		0	-	-	26	(3.3)	(0.2)
Polonnarwa	14	4,571	64	(8.2)	(0.6)	0		0	-	-	64	(8.2)	(0.6)
Uva	36	7,000	252	(32.3)	(2.3)	0		0	-	-	252	(32.3)	(2.3)
Badulla	31	6,516	202	(25.9)	(1.9)	0		0	-	-	202	(25.9)	(1.9)
Moneragala	5	10,000	50	(6.4)	(0.5)	0		0	-	-	50	(6.4)	(0.5)
Mahaweli "H" area	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
5 provinces Total	479	1,630	781	(100.0)	(7.2)	0		0	-	-	781	(100.0)	(7.2)
Other provinces	1,413	7,076	9,999		(92.8)	0		0	-	-	9,999		(92.8)
of which Colombo dist	107		556		(5.2)	0		0	-	-	556		(5.2)
Sri Lanka Total	1,892	5,698	10,780		(100.0)	0		0	-	-	10,780		(100.0)
Turmeric													
North	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Jaffna	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Kilinochchi	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Manner	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Vauniya	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Mullaitive	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
East	13	3,923	51	(9.3)	(0.7)	0		0	-	-	51	(9.3)	(0.7)
Batticaloa	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Ampara	13	3,923	51	(9.3)	(0.7)	0		0	-	-	51	(9.3)	(0.7)
Trincomalee	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
North-Western	83	1,458	121	(22.0)	(1.6)	0		0	-	-	121	(22.0)	(1.6)
Kurunegala	82	1,402	115	(20.9)	(1.5)	0		0	-	-	115	(20.9)	(1.5)
Puttalam	1	6,000	6	(1.1)	(0.1)	0		0	-	-	6	(1.1)	(0.1)
North Central	20	6,500	130	(23.6)	(1.7)	0		0	-	-	130	(23.6)	(1.7)
Anuradhapura	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Polonnarwa	20	6,500	130	(23.6)	(1.7)	0		0	-	-	130	(23.6)	(1.7)
Uva	25	9,960	249	(45.2)	(3.2)	0		0	-	-	249	(45.2)	(3.2)
Badulla	25	9,960	249	(45.2)	(3.2)	0		0	-	-	249	(45.2)	(3.2)
Moneragala	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
Mahaweli "H" area	0		0	(0.0)	(0.0)	0		0	-	-	0	(0.0)	(0.0)
5 provinces Total	141	3,908	551	(100.0)	(7.1)	0		0	-	-	551	(100.0)	(7.1)
Other provinces	856	8,407	7,196		(92.9)	0		0	-	-	7,196		(92.9)
of which Colombo dist	8	11,500	92		(1.2)	0		0	-	-	92		(1.2)
Sri Lanka Total	997	7,770	7,747		(100.0)	0		0	-	-	7,747		(100.0)

Source: Statistical Abstract 2010, Dept. of Census and Statistics

Table A 3.10 Vegetable Production in the Survey Area in 2006 (1/2)

Province District	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production		
			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)
	Ash pumpkin					Ash Plantain					Cucumber				
North	101	7,238	731	(10.5)	(8.8)	605	5,916	3,579	(8.9)	(5.5)	18	6,889	124	(0.8)	(0.5)
Jaffna	45	5,022	226	(3.3)	(2.7)	229	7,083	1,622	(4.0)	(2.5)	7	6,286	44	(0.3)	(0.2)
Kilinochchi	9	2,444	22	(0.3)	(0.3)	154	3,649	562	(1.4)	(0.9)	8	5,875	47	(0.3)	(0.2)
Mannar	8	7,125	57	(0.8)	(0.7)	48	9,146	439	(1.1)	(0.7)	3	11,000	33	(0.2)	(0.1)
Vauniya	39	10,923	426	(6.1)	(5.1)	120	5,808	697	(1.7)	(1.1)	0	-	0	(0.0)	(0.0)
Mulaitive	45	5,022	226	(3.3)	(2.7)	54	4,796	259	(0.6)	(0.4)	0	-	0	(0.0)	(0.0)
East	113	5,133	580	(8.4)	(7.0)	964	6,330	6,102	(15.2)	(9.4)	278	7,511	2,088	(13.4)	(8.5)
Bataloa	7	4,571	32	(0.5)	(0.4)	199	4,995	994	(2.5)	(1.5)	29	3,862	112	(0.7)	(0.5)
Ampara	98	5,173	507	(7.3)	(6.1)	615	7,037	4,328	(10.8)	(6.7)	235	7,919	1,861	(11.9)	(7.5)
Trincomalee	8	5,125	41	(0.6)	(0.5)	150	5,200	780	(1.9)	(1.2)	14	8,214	115	(0.7)	(0.5)
North-Western	196	7,495	1,469	(21.2)	(17.7)	1,116	6,898	7,698	(19.2)	(11.8)	467	8,084	3,775	(24.2)	(15.3)
Kurunegala	168	7,387	1,241	(17.9)	(15.0)	804	6,500	5,226	(13.0)	(8.0)	409	8,281	3,387	(21.7)	(13.7)
Puttalam	28	8,143	228	(3.3)	(2.8)	312	7,923	2,472	(6.2)	(3.8)	58	6,690	388	(2.5)	(1.6)
North Central	139	12,719	1,768	(25.5)	(21.3)	971	5,491	5,332	(13.3)	(8.2)	343	9,184	3,150	(20.2)	(12.8)
Anuradapura	132	13,008	1,717	(24.7)	(20.7)	584	4,945	2,888	(7.2)	(4.4)	293	9,686	2,838	(18.2)	(11.5)
Polonnaruwa	7	7,286	51	(0.7)	(0.6)	387	6,315	2,444	(6.1)	(3.8)	50	6,240	312	(2.0)	(1.3)
Uva	194	8,675	1,683	(24.2)	(20.3)	2,152	7,666	16,497	(41.0)	(25.4)	510	9,625	4,909	(31.5)	(19.9)
Badulla	20	8,450	169	(0.4)	(2.0)	706	7,028	4,962	(12.3)	(7.6)	199	11,085	2,206	(5.5)	(8.9)
Monaragala	174	8,701	1,514	(21.8)	(18.3)	1,446	7,977	11,535	(28.7)	(17.7)	311	8,691	2,703	(17.3)	(11.0)
Mahaweli-H	66	10,788	712	(10.3)	(8.6)	88	11,216	987	(2.5)	(1.5)	207	7,469	1,546	(9.9)	(6.3)
5 Provinces Total	809	8,582	6,943	(100.0)	(83.8)	5,896	6,817	40,195	(100.0)	(61.8)	1,823	8,553	15,592	(100.0)	(63.2)
Other provinces	160	8,400	1,344		(16.2)	3,308	7,497	24,801		(38.2)	1,024	8,867	9,080		(36.8)
SRI LANKA Total	969	8,552	8,287		(100.0)	9,204	7,062	64,996		(100.0)	2,847	8,666	24,672		(100.0)
	Ladies finger					Bitter gourd					Red Pumpkin				
North	411	6,321	2,598	(10.9)	(6.4)	273	6,883	1,879	(13.9)	(6.9)	267	6,318	1,687	(3.1)	(2.3)
Jaffna	159	7,623	1,212	(5.1)	(3.0)	97	6,598	640	(4.7)	(2.4)	111	7,036	781	(1.4)	(1.1)
Kilinochchi	138	6,638	916	(3.8)	(2.3)	75	5,960	447	(3.3)	(1.6)	91	3,703	337	(0.6)	(0.5)
Mannar	27	8,444	228	(1.0)	(0.6)	19	6,684	127	(0.9)	(0.5)	8	13,250	106	(0.2)	(0.1)
Vauniya	87	2,782	242	(1.0)	(0.6)	82	8,110	665	(4.9)	(2.5)	57	8,123	463	(0.8)	(0.6)
Mulaitive	93	2,989	278	(1.2)	(0.7)	83	3,530	293	(2.2)	(1.1)	67	7,149	479	(0.9)	(0.7)
East	689	7,077	4,876	(20.5)	(12.0)	299	6,712	2,007	(14.8)	(7.4)	633	8,577	5,429	(10.0)	(7.4)
Bataloa	229	7,052	1,615	(6.8)	(4.0)	90	5,333	480	(3.5)	(1.8)	28	6,000	168	(0.3)	(0.2)
Ampara	335	6,499	2,177	(9.1)	(5.4)	151	6,424	970	(7.2)	(3.6)	519	9,071	4,708	(8.6)	(6.4)
Trincomalee	125	8,672	1,084	(4.6)	(2.7)	58	9,603	557	(4.1)	(2.1)	86	6,430	553	(1.0)	(0.8)
North-Western	813	5,309	4,316	(18.1)	(10.6)	507	5,604	2,841	(21.0)	(10.5)	901	8,527	7,683	(14.1)	(10.5)
Kurunegala	582	4,500	2,619	(11.0)	(6.4)	331	4,677	1,548	(11.4)	(5.7)	725	8,286	6,007	(11.0)	(8.2)
Puttalam	231	7,346	1,697	(7.1)	(4.2)	176	7,347	1,293	(9.5)	(4.8)	176	9,523	1,676	(3.1)	(2.3)
North Central	857	7,106	6,090	(25.6)	(15.0)	494	6,559	3,240	(23.9)	(12.0)	1,946	9,462	18,414	(33.8)	(25.1)
Anuradapura	705	7,387	5,208	(21.9)	(12.8)	405	6,753	2,735	(20.2)	(10.1)	1,796	9,574	17,195	(31.5)	(23.5)
Polonnaruwa	152	5,803	882	(3.7)	(2.2)	89	5,674	505	(3.7)	(1.9)	150	8,127	1,219	(2.2)	(1.7)
Uva	744	5,759	4,285	(18.0)	(10.5)	434	6,924	3,005	(22.2)	(11.1)	1,291	9,500	12,265	(22.5)	(16.7)
Badulla	266	4,955	1,318	(3.3)	(3.2)	154	6,721	1,035	(2.6)	(3.8)	450	7,660	3,447	(8.6)	(4.7)
Monaragala	478	6,207	2,967	(12.5)	(7.3)	280	7,036	1,970	(14.5)	(7.3)	841	10,485	8,818	(16.2)	(12.0)
Mahaweli-H	274	6,004	1,645	(6.9)	(4.0)	101	5,733	579	(4.3)	(2.1)	748	12,115	9,062	(16.6)	(12.4)
5 Provinces Total	3,788	6,286	23,810	(100.0)	(58.6)	2,108	6,428	13,551	(100.0)	(50.0)	5,786	9,426	54,540	(100.0)	(74.4)
Other provinces	2,858	5,887	16,824		(41.4)	1,835	7,384	13,550		(50.0)	1,399	13,391	18,734		(25.6)
SRI LANKA Total	6,646	6,114	40,634		(100.0)	3,943	6,873	27,101		(100.0)	7,185	10,198	73,274		(100.0)
	Brinjal					Snake gourd					Capsicum				
North	815	9,620	7,840	(13.3)	(8.9)	194	6,577	1,276	(12.6)	(6.0)	142	3,923	557	(7.2)	(4.1)
Jaffna	210	8,233	1,729	(2.9)	(2.0)	75	7,827	587	(5.8)	(2.7)	17	4,706	80	(1.0)	(0.6)
Kilinochchi	290	7,859	2,279	(3.9)	(2.6)	63	5,000	315	(3.1)	(1.5)	45	2,756	124	(1.6)	(0.9)
Mannar	43	13,302	572	(1.0)	(0.6)	16	9,000	144	(1.4)	(0.7)	19	3,842	73	(0.9)	(0.5)
Vauniya	272	11,985	3,260	(5.5)	(3.7)	40	5,750	230	(2.3)	(1.1)	61	4,590	280	(3.6)	(2.1)
Mulaitive	229	4,629	1,060	(1.8)	(1.2)	69	4,174	288	(2.8)	(1.3)	57	3,965	226	(2.9)	(1.7)
East	807	8,457	6,825	(11.6)	(7.7)	268	7,321	1,962	(19.3)	(9.2)	26	5,115	133	(1.7)	(1.0)
Bataloa	254	9,693	2,462	(4.2)	(2.8)	107	5,579	597	(5.9)	(2.8)	10	3,200	32	(0.4)	(0.2)
Ampara	398	7,241	2,882	(4.9)	(3.3)	111	7,829	869	(8.6)	(4.1)	12	6,833	82	(1.1)	(0.6)
Trincomalee	155	9,555	1,481	(2.5)	(1.7)	50	9,920	496	(4.9)	(2.3)	4	4,750	19	(0.2)	(0.1)
North-Western	794	6,256	4,967	(8.4)	(5.6)	401	7,322	2,936	(28.9)	(13.7)	493	3,868	1,907	(24.6)	(14.0)
Kurunegala	591	5,575	3,295	(5.6)	(3.7)	324	6,583	2,133	(21.0)	(10.0)	330	3,455	1,140	(14.7)	(8.4)
Puttalam	203	8,236	1,672	(2.8)	(1.9)	77	10,429	803	(7.9)	(3.8)	163	4,706	767	(9.9)	(5.6)
North Central	1,708	8,515	14,543	(24.7)	(16.5)	209	6,067	1,268	(12.5)	(5.9)	112	5,357	600	(7.8)	(4.4)
Anuradapura	1,478	8,874	13,116	(22.3)	(14.8)	152	6,263	952	(9.4)	(4.5)	93	5,796	539	(7.0)	(3.9)
Polonnaruwa	230	6,204	1,427	(2.4)	(1.6)	57	5,544	316	(3.1)	(1.5)	19	3,211	61	(0.8)	(0.4)
Uva	1,888	11,684	22,059	(37.5)	(25.0)	170	10,782	1,833	(18.0)	(8.6)	676	6,139	4,150	(53.6)	(30.4)
Badulla	1,089	12,621	13,744	(34.2)	(15.6)	31	8,613	267	(1.7)	(1.2)	557	6,422	3,577	#REF!	(26.2)
Monaragala	799	10,407	8,315	(14.1)	(9.4)	139	11,266	1,566	(15.4)	(7.3)	119	4,815	573	(7.4)	(4.2)
Mahaweli-H	290	9,107	2,641	(4.5)	(3										

Table A 3.10 Vegetable Production in the Survey Area in 2006 (2/2)

Province District	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			
			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)	
			Beans					Cabbage					Carrot			
North	105	4,971	522	(2.1)	(1.3)	179	7,983	1,429	(5.9)	(2.4)	116	7,526	873	(9.8)	(2.4)	
Jaffna	92	5,109	470	(1.9)	(1.2)	72	7,833	564	(2.3)	(0.9)	97	7,825	759	(8.5)	(2.1)	
Kilinochchi	0	-	0	(0.0)	(0.0)	44	5,386	237	(1.0)	(0.4)	15	6,333	95	(1.1)	(0.3)	
Mannar	3	3,333	10	(0.0)	(0.0)	6	14,333	86	(0.4)	(0.1)	1	11,000	11	(0.1)	(0.0)	
Vauniya	10	4,200	42	(0.2)	(0.1)	57	9,509	542	(2.3)	(0.9)	3	2,667	8	(0.1)	(0.0)	
Mulaitive	6	3,500	21	(0.1)	(0.1)	41	8,268	339	(1.4)	(0.6)	22	4,727	104	(1.2)	(0.3)	
East	6	3,333	20	(0.1)	(0.0)	13	11,462	149	(0.6)	(0.3)	0	-	0	(0.0)	(0.0)	
Bataloa	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Ampara	5	3,600	18	(0.1)	(0.0)	13	11,462	149	(0.6)	(0.3)	0	-	0	(0.0)	(0.0)	
Trincomalee	1	2,000	2	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
North-Western	34	3,206	109	(0.4)	(0.3)	117	9,427	1,103	(4.6)	(1.9)	0	-	0	(0.0)	(0.0)	
Kurunegala	34	3,206	109	(0.4)	(0.3)	6	3,333	20	(0.1)	(0.0)	0	-	0	(0.0)	(0.0)	
Puttalam	0	-	0	(0.0)	(0.0)	111	9,757	1,083	(4.5)	(1.8)	0	-	0	(0.0)	(0.0)	
North Central	23	3,217	74	(0.3)	(0.2)	38	6,974	265	(1.1)	(0.4)	0	-	0	(0.0)	(0.0)	
Anuradapura	23	3,217	74	(0.3)	(0.2)	38	6,974	265	(1.1)	(0.4)	0	-	0	(0.0)	(0.0)	
Polonnaruwa	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Uva	3,675	6,669	24,510	(96.6)	(60.4)	1,197	17,395	20,822	(86.5)	(35.1)	650	12,417	8,071	(90.2)	(22.3)	
Badulla	3,608	6,737	24,307	(60.5)	(59.9)	1,196	17,405	20,816	(86.5)	(35.1)	650	12,417	8,071	(90.2)	(22.3)	
Monaragala	67	3,030	203	(0.8)	(0.5)	1	6,000	6	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Mahaweli-H	41	3,439	141	(0.6)	(0.3)	57	5,193	296	(1.2)	(0.5)	0	-	0	(0.0)	(0.0)	
5 Provinces Total	3,884	6,533	25,376	(100.0)	(62.6)	1,601	15,031	24,064	(100.0)	(40.5)	766	11,676	8,944	(100.0)	(24.7)	
Other provinces	3,925	3,867	15,177		(37.4)	2,473	14,281	35,317		(59.5)	2,199	12,417	27,306		(75.3)	
SRI LANKA Total	7,809	5,193	40,553		(100.0)	4,074	14,576	59,381		(100.0)	2,965	12,226	36,250		(100.0)	
			Leeks					Knob-Khol					Raddish			
North	31	6,484	201	(8.1)	(0.8)	1	4,000	4	(0.1)	(0.0)	2	4,500	9	(0.1)	(0.0)	
Jaffna	30	6,533	196	(7.9)	(0.8)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Kilinochchi	1	5,000	5	(0.2)	(0.0)	1	4,000	4	(0.1)	(0.0)	2	4,500	9	(0.1)	(0.0)	
Mannar	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Vauniya	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Mulaitive	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
East	0	-	0	(0.0)	(0.0)	1	4,000	4	(0.1)	(0.0)	9	8,556	77	(0.7)	(0.3)	
Bataloa	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	
Ampara	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	5	13,000	65	(0.6)	(0.2)	
Trincomalee	0	-	0	(0.0)	(0.0)	1	4,000	4	(0.1)	(0.0)	4	3,000	12	(0.1)	(0.0)	
North-Western	0	-	0	(0.0)	(0.0)	127	9,386	1,192	(16.8)	(7.9)	384	9,870	3,790	(32.4)	(13.6)	
Kurunegala	0	-	0	(0.0)	(0.0)	127	9,386	1,192	(16.8)	(7.9)	218	8,050	1,755	(15.0)	(6.3)	
Puttalam	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	166	12,259	2,035	(17.4)	(7.3)	
North Central	0	-	0	(0.0)	(0.0)	11	8,455	93	(1.3)	(0.6)	35	7,571	265	(2.3)	(0.9)	
Anuradapura	0	-	0	(0.0)	(0.0)	11	8,455	93	(1.3)	(0.6)	21	9,000	189	(1.6)	(0.7)	
Polonnaruwa	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	14	5,429	76	(0.6)	(0.3)	
Uva	181	12,646	2,289	(91.9)	(9.2)	449	12,430	5,581	(78.8)	(36.8)	610	11,997	7,318	(62.6)	(26.2)	
Badulla	181	12,646	2,289	(91.9)	(9.2)	449	12,430	5,581	(78.8)	(36.8)	586	12,090	7,085	(62.6)	(25.4)	
Monaragala	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)	24	9,708	233	(2.0)	(0.8)	
Mahaweli-H	0	-	0	(0.0)	(0.0)	28	7,500	210	(3.0)	(1.4)	22	10,864	239	(2.0)	(0.9)	
5 Provinces Total	212	11,745	2,490	(100.0)	(10.0)	617	11,481	7,084	(100.0)	(46.7)	1,062	11,015	11,698	(100.0)	(41.9)	
Other provinces	1,497	14,908	22,317		(90.0)	827	9,791	8,097		(53.3)	1,448	11,187	16,199		(58.1)	
SRI LANKA Total	1,709	14,516	24,807		(100.0)	1,444	10,513	15,181		(100.0)	2,510	11,114	27,897		(100.0)	
			Tomato					Beet root								
North	309	6,958	2,150	(7.9)	(3.5)	130	7,215	938	(9.4)	(3.9)						
Jaffna	105	8,448	887	(3.2)	(1.5)	78	8,013	625	(6.3)	(2.6)						
Kilinochchi	77	6,091	469	(1.7)	(0.8)	22	5,864	129	(1.3)	(0.5)						
Mannar	28	8,250	231	(0.8)	(0.4)	3	8,000	24	(0.2)	(0.1)						
Vauniya	99	5,687	563	(2.1)	(0.9)	27	5,926	160	(1.6)	(0.7)						
Mulaitive	88	6,307	555	(2.0)	(0.9)	22	2,955	65	(0.7)	(0.3)						
East	163	8,160	1,330	(4.9)	(2.2)	0	-	0	(0.0)	(0.0)						
Bataloa	58	6,121	355	(1.3)	(0.6)	0	-	0	(0.0)	(0.0)						
Ampara	72	9,500	684	(2.5)	(1.1)	0	-	0	(0.0)	(0.0)						
Trincomalee	33	8,818	291	(1.1)	(0.5)	0	-	0	(0.0)	(0.0)						
North-Western	232	5,987	1,389	(5.1)	(2.3)	594	8,237	4,893	(49.0)	(20.6)						
Kurunegala	177	5,712	1,011	(3.7)	(1.7)	519	7,969	4,136	(41.5)	(17.4)						
Puttalam	55	6,873	378	(1.4)	(0.6)	75	10,093	757	(7.6)	(3.2)						
North Central	281	8,021	2,254	(8.3)	(3.7)	69	10,493	724	(7.3)	(3.0)						
Anuradapura	225	8,902	2,003	(7.3)	(3.3)	69	10,493	724	(7.3)	(3.0)						
Polonnaruwa	56	4,482	251	(0.9)	(0.4)	0	-	0	(0.0)	(0.0)						
Uva	1,854	10,539	19,540	(71.6)	(32.0)	254	12,071	3,066	(30.7)	(12.9)						
Badulla	1,702	10,804	18,388	(45.7)	(30.1)	254	12,071	3,066	(30.7)	(12.9)						
Monaragala	152	7,579	1,152	(4.2)	(1.9)	0	-	0	(0.0)	(0.0)						
Mahaweli-H	95	6,789	645	(2.4)	(1.1)	56	6,339	355	(3.6)	(1.5)						
5 Provinces Total	2,934	9,307	27,308	(100.0)	(44.7)	1,103	9,044	9,976	(100.0)	(42.0)						
Other provinces	3,699	9,120	33,735		(55.3)	1,210	11,385	13,776		(58.0)						
SRI LANKA Total	6,633	9,203	61,043		(100.0)	2,313	10,269	23,752		(100.0)						

Table A 3.11 Fruits Production in the Survey Area in 2006

Province District	Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production			Area (ha)	Yield (kg/ha)	Production		
			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)			Production (ton)	Share in S. Area (%)	Share in Sri Lanka (%)
			Banana			Papaw			Pineapple						
North	1,327	11,132	14,772	(8.8)	(3.9)	165	3,798	627	(6.3)	(3.0)	3	2,083	6	(0.0)	(0.0)
Jaffna	565	12,871	7,272	(4.3)	(1.9)	46	3,759	173	(1.7)	(0.8)	0	-	0	(0.0)	(0.0)
Kilinochchi	366	12,885	4,716	(2.8)	(1.2)	43	6,122	263	(2.7)	(1.2)	0	-	0	(0.0)	(0.0)
Mannar	104	6,808	708	(0.4)	(0.2)	17	4,626	79	(0.8)	(0.4)	0	-	0	(0.0)	(0.0)
Vaunia	263	6,844	1,800	(1.1)	(0.5)	24	758	18	(0.2)	(0.1)	0	-	0	(0.0)	(0.0)
Mulative	29	9,517	276	(0.2)	(0.1)	35	2,674	94	(0.9)	(0.4)	3	2,083	6	(0.0)	(0.0)
East	1,445	5,199	7,512	(4.5)	(2.0)	126	3,219	406	(4.1)	(1.9)	16	391	6	(0.0)	(0.0)
Batalaoe	372	10,871	4,044	(2.4)	(1.1)	46	3,900	179	(1.8)	(0.8)	0	-	0	(0.0)	(0.0)
Ampara	818	2,641	2,160	(1.3)	(0.6)	56	2,565	144	(1.4)	(0.7)	16	391	6	(0.0)	(0.0)
Trincomalee	255	5,129	1,308	(0.8)	(0.3)	24	3,440	83	(0.8)	(0.4)	0	-	0	(0.0)	(0.0)
North-Western	10,121	8,176	82,752	(49.3)	(21.9)	567	5,426	3,076	(31.0)	(14.6)	1,940	14,303	27,218	(80.9)	(45.7)
Kurunegala	8,311	8,965	74,508	(44.4)	(19.7)	263	5,867	1,543	(15.6)	(7.3)	1,730	14,566	25,200	(74.9)	(42.3)
Puttalam	1,810	4,555	8,244	(4.9)	(2.2)	304	5,044	1,533	(15.5)	(7.3)	210	9,607	2,018	(6.0)	(3.4)
North Central	3,213	6,338	20,364	(12.1)	(5.4)	702	4,133	2,902	(29.3)	(13.7)	7	10,000	70	(0.2)	(0.1)
Anuradapura	2,208	6,283	13,872	(8.3)	(3.7)	405	4,446	1,801	(18.2)	(8.5)	7	10,000	70	(0.2)	(0.1)
Polonnaruwa	1,005	6,460	6,492	(3.9)	(1.7)	297	3,707	1,101	(11.1)	(5.2)	0	-	0	(0.0)	(0.0)
Uva	6,297	6,355	40,020	(23.9)	(10.6)	429	5,005	2,147	(21.7)	(10.2)	372	10,615	3,949	(11.7)	(6.6)
Badulla	1,815	7,101	12,888	(7.7)	(3.4)	221	5,097	1,126	(11.4)	(5.3)	121	13,884	1,680	(5.0)	(2.8)
Monaragala	4,482	6,054	27,132	(16.2)	(7.2)	208	4,906	1,021	(10.3)	(4.8)	251	9,039	2,269	(6.7)	(3.8)
Mahaweli H	634	3,748	2,376	(1.4)	(0.6)	153	4,924	753	(7.6)	(3.6)	634	3,748	2,376	(7.1)	(4.0)
5 provinces Total	23,037	7,284	167,796	(100.0)	(44.4)	2,142	4,627	9,911	(100.0)	(46.9)	2,972	11,314	33,625	(100.0)	(56.5)
Other provinces	25,819	8,154	210,540		(55.6)	2,937	3,823	11,227		(53.1)	1,991	13,021	25,925		(43.5)
Sri Lanka Total	48,856	7,744	378,336		(100.0)	5,079	4,162	21,138		(100.0)	4,963	11,999	59,550		(100.0)
			Mango			Orange			Lime						
North	918	2,737	2,513	(6.9)	(3.6)	155	1,263	196	(6.4)	(5.2)	267	290	77	(1.9)	(1.6)
Jaffna	465	1,866	868	(2.4)	(1.2)	38	987	38	(1.2)	(1.0)	85	256	22	(0.5)	(0.4)
Kilinochchi	115	2,901	334	(0.9)	(0.5)	10	1,063	11	(0.3)	(0.3)	14	358	5	(0.1)	(0.1)
Mannar	77	2,781	214	(0.6)	(0.3)	14	473	7	(0.2)	(0.2)	23	200	5	(0.1)	(0.1)
Vaunia	121	2,817	341	(0.9)	(0.5)	45	936	42	(1.4)	(1.1)	73	322	24	(0.6)	(0.5)
Mulative	140	5,401	756	(2.1)	(1.1)	48	2,060	99	(3.2)	(2.6)	72	314	23	(0.6)	(0.5)
East	1,433	1,461	2,094	(5.8)	(3.0)	296	384	114	(3.7)	(3.0)	1,005	446	448	(11.2)	(9.0)
Batalaoe	441	1,966	867	(2.4)	(1.2)	73	481	35	(1.1)	(0.9)	56	384	21	(0.5)	(0.4)
Ampara	631	878	554	(1.5)	(0.8)	160	326	52	(1.7)	(1.4)	875	466	408	(10.2)	(8.2)
Trincomalee	361	1,863	673	(1.9)	(1.0)	63	421	27	(0.9)	(0.7)	74	247	18	(0.5)	(0.4)
North-Western	5,725	2,963	16,965	(46.8)	(24.1)	887	930	825	(26.9)	(21.9)	1,155	679	784	(19.7)	(15.8)
Kurunegala	4,768	3,087	14,719	(40.6)	(20.9)	543	1,041	566	(18.4)	(15.0)	814	782	637	(16.0)	(12.8)
Puttalam	957	2,347	2,246	(6.2)	(3.2)	344	754	259	(8.5)	(6.9)	341	432	147	(3.7)	(3.0)
North Central	2,452	2,725	6,681	(18.4)	(9.5)	795	671	533	(17.4)	(14.1)	1,199	364	437	(11.0)	(8.8)
Anuradapura	1,565	3,086	4,829	(13.3)	(6.9)	547	702	384	(12.5)	(10.2)	831	388	322	(8.1)	(6.5)
Polonnaruwa	887	2,088	1,852	(5.1)	(2.6)	248	602	149	(4.9)	(4.0)	368	312	115	(2.9)	(2.3)
Uva	1,984	3,674	7,290	(20.1)	(10.4)	848	1,606	1,362	(44.4)	(36.1)	2,920	754	2,203	(55.2)	(44.4)
Badulla	691	5,086	3,515	(9.7)	(5.0)	473	1,581	748	(24.4)	(19.8)	639	756	483	(12.1)	(9.7)
Monaragala	1,293	2,920	3,776	(10.4)	(5.4)	375	1,638	614	(20.0)	(16.3)	2,281	754	1,720	(43.1)	(34.6)
Mahaweli H	163	4,312	703	(1.9)	(1.0)	48	773	37	(1.2)	(1.0)	43	929	40	(1.0)	(0.8)
5 provinces Total	12,675	2,860	36,245	(100.0)	(51.5)	3,029	1,012	3,067	(100.0)	(81.3)	6,589	605	3,989	(100.0)	(80.3)
Other provinces	12,640	2,704	34,173		(48.5)	1,263	559	706		(18.7)	2,384	409	976		(19.7)
Sri Lanka Total	25,315	2,782	70,418		(100.0)	4,292	879	3,772		(100.0)	8,973	553	4,965		(100.0)
			Passion Fruit			Cashew									
North	0	-	0	(0.0)	(0.0)	206	126	26	(0.5)	(0.4)					
Jaffna	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)					
Kilinochchi	0	-	0	(0.0)	(0.0)	2	0	0	(0.0)	(0.0)					
Mannar	0	-	0	(0.0)	(0.0)	204	127	26	(0.5)	(0.4)					
Vaunia	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)					
Mulative	0	-	0	(0.0)	(0.0)	0	-	0	(0.0)	(0.0)					
East	0	-	0	(0.0)	(0.0)	1,427	676	965	(20.1)	(15.2)					
Batalaoe	0	-	0	(0.0)	(0.0)	754	439	331	(6.9)	(5.2)					
Ampara	0	-	0	(0.0)	(0.0)	610	1,025	625	(13.0)	(9.9)					
Trincomalee	0	-	0	(0.0)	(0.0)	63	143	9	(0.2)	(0.1)					
North-Western	31	850	26	(48.8)	(4.7)	10,458	283	2,956	(61.6)	(46.7)					
Kurunegala	14	1,135	16	(29.4)	(2.8)	5,941	274	1,629	(33.9)	(25.7)					
Puttalam	17	615	10	(19.4)	(1.9)	4,517	294	1,327	(27.6)	(21.0)					
North Central	0	-	0	(0.0)	(0.0)	2,251	239	537	(11.2)	(8.5)					
Anuradapura	0	-	0	(0.0)	(0.0)	1,791	251	450	(9.4)	(7.1)					
Polonnaruwa	0	-	0	(0.0)	(0.0)	460	189	87	(1.8)	(1.4)					
Uva	30	921	28	(51.2)	(4.9)	1,459	206	301	(6.3)	(4.8)					
Badulla	23	1,090	25	(46.5)	(4.4)	696	228	159	(3.3)	(2.5)					
Monaragala	7	364	3	(4.7)	(0.5)	763	186	142	(3.0)	(2.2)					
Mahaweli H	0	-	0	(0.0)	(0.0)	58	293	17	(0.4)	(0.3)					
5 provinces Total	61	885	54	(100.0)	(9.6)	15,859	303	4,802	(100.0)	(75.9)					
Other provinces	288	1,773	511		(90.4)	4,087	373	1,526		(24.1)					
Sri Lanka Total	349	1,617	564		(100.0)	19,946	317	6,328		(100.0)					

Note: Cashew is categorized as industrial crop according to HARTI.
Source: Agricultural Profile 2006, HARTI

Table A 3.12

OFC Cultivation and Production in Target Districts (Maha Cultivation)

Province	District	Year	Kurakkan		Maize		Green gram		Cowpea		Soya bean		Black gram		Gingely		Ground nut		Potato		Red onion		Big onion		Chillies (Green)				
			Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	
Northern	Jaffna	2008	97	78	45	18	87	43	37	18			54	37	693	224	13	4	19	143	550	5,315	81	638	340	589			
		2009	134	97	32	36	74	53	54	45			65	46	283	190	13	4	28	216	603	6,151	52	350	227	554			
		2010	132	101	37	34	118	68	66	33			78	38	417	234	13	11	33	272	679	9,063	74	548	341	635			
	Kilinochchi	2008	19	11	85	45	175	120	147	98			192	131	32	16	239	173	2	8	63	566					354	884	
		2009																											
	Mannar	2008	2	1	4	5	16	16	17	21	1	1	25	27	3	1	8	9					11	44				27	63
		2009	2	1	5	6	13	14	20	25	1	1	17	19	1	1	35	38					4	23	1	5	34	79	
		2010	1	1	7	8	22	22	25	31	1	1	13	14	3	2	63	68	5	34	12	54	1	7	7	54	124		
		2008	127	75	101	231	207	183	372	292			1,188	762	94	56	204	219					90	810	11	117	149	879	
		2009	18	11	220	871	278	247	278	219			2,404	1,545	366	217	423	459					44	670	9	72	322	1,909	
		2010	75	45	155	611	199	145	264	201			2,305	2,834	250	148	306	332					27	365			263	1,480	
	Mullativu	2008	7	4	69	52	139	125	134	120			811	694	40	20	714	493					46	436				111	315
2009																													
2010																													
Eastern	Bataloa	2008	28	10	285	444	34	17	29	16			35	18	17	6	124	71					34	239			113	161	
		2009	33	11	505	488	30	14	38	17	1	1	43	14	13	4	157	87					34	239			115	154	
		2010	35	12	574	561	188	410	38	19	1	1	32	15	11	5	318	187					32	231			120	166	
	Ampara	2008	242	273	6,485	13,655	472	470	1,770	1,822	9	18	19	30	44	27	671	644					17	148	2	24	349	1,059	
		2009	297	207	4,693	16,603	406	432	2,918	4,296	5	8	21	34	69	40	607	1,322					27	133	2	20	314	1,006	
	Trincomalee	2010	217	183	4,114	17,073	527	420	1,964	1,760			27	21	20	16	852	1,438					9	73			367	804	
		2008	22	21	850	815	59	47	48	44	3	2	19	15	12	10	171	173					111	1,048	6	60	98	174	
		2009	29	23	496	791	66	65	84	87			28	23	10	10	249	280					150	1,565			119	138	
		2010	18	12	595	1,059	75	73	75	74			16	13	13	9	227	292					226	2,460			135	158	
North Western	Kurunegala	2008	353	300	940	797	1,249	666	885	398	38	18	78	55	202	89	841	353					80	257	47	181	737	614	
		2009	367	311	931	792	1,297	715	892	430	32	15	70	67	249	99	911	383					69	195	40	172	761	609	
		2010	470	397	1,243	1,057	1,204	896	995	448	2	1	66	62	201	80	881	361					72	216	29	13	724	579	
	Puttalam	2008	103	102	799	1,752	343	500	306	412			46	56	240	141	541	585					1,097	12,018	1	1	974	3,328	
		2009	92	103	643	1,277	353	471	249	298			43	56	212	181	454	600					830	8,727			829	2,635	
		2010	106	160	466	970	301	405	324	433			51	82	231	233	466	789					1,064	15,741			790	3,531	
North Central	Anuradhapura	2008	1,552	1,338	16,212	41,786	610	537	935	979	68	79	4,446	5,606	199	158	536	554					25	177	17	133	2,844	13,058	
		2009	1,540	1,640	20,170	54,972	638	780	1,089	1,315	155	245	4,665	4,617	167	151	475	706					23	200	18	235	3,183	13,943	
		2010	1,663	1,674	20,753	54,893	724	884	1,196	1,442	88	145	6,090	5,724	209	195	506	717					20	179	122	1,243	2,394	12,234	
	Pollonnaruwa	2008	63	100	516	1,206	154	196	147	204	3	6	8	13	34	20	344	407					20	149	16	129	176	693	
2009		70	96	744	2,041	172	256	224	303	3	4	29	48	22	14	361	739					33	330	14	177	219	1,071		
Uva	Badulla	2010	83	97	643	1,777	145	225	174	242	4	5	23	39	37	22	265	643					32	351	10	97	156	681	
		2008	207	289	5,131	7,570	137	152	227	236	3	6	9	8	118	65	55	107	1,014	14,011			68	654			413	881	
		2009	209	308	4,120	8,065	101	113	224	246	4	6	22	24	1	1	67	123	1,518	21,480			78	669	1	6	417	1,002	
	Monaragala	2010	230	428	4,508	9,255	109	108	218	238	4	7	8	13			59	106	1,499	19,898			79	790			432	903	
		2008	873	1,053	8,704	17,999	1,705	1,353	1,582	1,726			57	57	317	195	2,403	2,908					60	543			847	2,907	
		2009	874	961	9,888	24,452	1,643	2,317	1,528	1,648			73	73	280	174	2,330	4,349					72	730			833	3,398	
Sri Lanka	2010	944	1,026	13,477	35,898	1,801	1,984	1,699	2,192			348	344	326	193	2,648	5,411					71	715			875	3,424		
	2008	5,023	5,418	42,864	91,046	7,123	6,543	7,665	7,598	219	314	7,025	7,577	2,871	1,469	7,723	7,753	1,618	23,425	2,487	24,532	219	1,874	9,883	33,405				
	2009	5,024	5,571	44,786	114,855	6,674	7,515	8,488	10,062	425	796	7,496	6,595	2,412	1,477	6,877	10,203	1,886	27,452	2,175	21,041	182	1,347	9,479	33,246				
2010	5,540	6,209	48,887	127,761	6,888	7,594	7,856	8,143	709	1,353	9,081	9,241	2,603	1,701	7,331	11,262	1,893	26,114	2,523	31,734	243	1,074	8,863	31,842					

Table A 3.13 OFC Cultivation and Production in Target Districts (Yala Cultivation) (1/2)

Province	District	Year	Kurakkan		Maize		Green gram		Cowpea		Soya bean		Black gram		Sesame		Ground nut		Potato		Red onion		Big onion		Chillies (Green)		
			Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)
Northern	Jaffna	2008	122	101			67	58	1	1			5	3	32	21	10	2			609	6,516			218	849	
		2009	138	125	7	13	72	58	9	12			12	8	111	79	20	9			446	3,925	28	316	177	297	
		2010	131	114	5	7	67	58	9	6			5	4	312	149	26	31			533	4,837	19	166	142	226	
	Kilinochchi	2008	4	2	1	1	27	10	19	7					4	2	27	6			71	284	8	15	15	44	
		2009																									
		2010					200	198	16	12			1	1				15	30			98	1,210			6	11
	Mannar	2008					3	3	2	2					3	2	11	12			4	18				16	36
		2009			1	2	6	6	3	4			1	1	5	2	18	20			8	35				16	85
		2010	1		1	1	24	25	8	10	1	1	5	5	1		20	22			24	103	3	23	23	52	
	Vavuniya	2008	2	1	19	76	47	42	52	41			117	75	142	84	93	101			158	2,418	86	899	84	496	
		2009			28	112	19	17	38	30			8	5	52	31	170	185			351	5,321	25	250	52	309	
		2010			15	39	15	13	11	9			9	6	160	95	76	82			353	5,358	12	127	55	327	
	Mullativu	2008	3	1	9	7	55	37	45	26			6	4	4	1	157	33			116	1,030	10	64	41	159	
		2009																									
		2010			1	2	93	92	56	42			5	5				111	220			104	1,290	2	36	21	35
Eastern	Bataloa	2008	12	3	65	52	12	6	7	3			12	6	12	4	28	20			74	637				84	172
		2009	10	3	166	201	7	3	2	1			8	4	5	2	16	14			58	468				70	150
		2010	13	4	188	222	14	7	2	1	2	1	11	5	9	3	52	54			59	476				77	161
	Ampara	2008	38	34	372	538	134	123	2,627	2,240	2	4	35	35	1	1	56	53			8	29	6	21	108	208	
		2009	12	7	74	98	135	140	1,074	1,317	10	4	3	2	1	1	20	22			5	24	1	11	60	152	
		2010	22	28	244	755	109	126	1,017	1,388	1	1			5	4	22	44			4	29				85	223
Trincomalee	2008			110	119	15	12	7	6							29	29			82	607				47	93	
	2009			108	125	13	13	15	15			2	1	2	2	29	31			86	746	4	49	49	75		
	2010			110	159	14	13	12	12							36	43			78	767				57	74	
North Western	Kurunegura	2008	91	56	410	395	581	249	427	299	4	4	107	36	203	53	855	964			79	261	187	1,122	543	866	
		2009	92	55	448	430	627	263	460	322	11	23	85	64	217	56	879	1,318			65	218	175	1,049	607	972	
		2010	143	86	392	376	556	234	459	321	13	24	82	46	265	69	623	872			66	305	148	888	481	769	
	Puttalam	2008	33	58	171	483	114	185	127	177			16	31	135	104	234	219			783	9,479	14	67	666	3,819	
		2009	14	18	65	184	154	148	107	114			16	15	118	78	184	207			939	11,250				569	3,336
		2010	51	89	39	113	141	169	127	145			7	8	202	150	236	322			1,037	12,425	7	108	613	3,502	
North Central	Anuradhapura	2008	53	44	589	1,035	67	69	88	102	27	24	107	124	4,058	3,045	47	46			30	251	1,101	13,539	342	1,819	
		2009	11	22	395	888	74	69	86	112	213	516	98	125	6,379	5,518	23	34			32	300	1,284	18,404	284	1,248	
		2010	40	37	502	1,544	63	57	106	120	484	878	240	308	13,888	13,664	34	46			20	181	1,197	19,151	441	2,084	
Pollonnaruwa	2008	15	15	550	1,761	66	90	63	85	6	12	1	2	8	6	114	108			17	174	49	600	80	451		
	2009	16	18	366	1,029	58	85	52	72	2	5			18	12	67	102			12	120	48	466	76	511		
	2010	11	12	418	1,341	54	75	54	73			1	2	14	11	106	189			15	183	48	577	78	431		
Uva	Badulla	2008	116	135	3,682	10,429	108	101	99	88			10	7	951	699	62	67	2,481	38,689	94	566	2	17	307	753	
		2009	88	116	2,305	7,751	82	79	92	90	21	35	1	1	627	585	43	103	1,827	27,502	68	486	2	13	223	500	
		2010	111	152	4,283	23,203	105	95	121	114	6	10	1	2	603	454	37	60	1,634	20,459	73	676	1	4	250	613	
	Monaragala	2008	94	137	578	1,573	175	262	384	523			2	3	687	592	375	343			66	675				236	1,188
2009		31	44	204	448	81	111	299	301					569	442	238	256			51	504				137	391	
Sri Lanka	2008	1,056	1,093	8,744	21,241	2,233	4,496	4,354	1,007	2,718	1,293	1,900	6,641	4,868	2,549	2,498	3,251	51,389	2,391	24,758	3,871	55,497	4,920	17,598			
	2009	878	862	6,071	15,114	1,895	1,742	2,951	3,423	1,229	2,992	372	476	8,469	7,048	2,125	2,874	2,253	34,253	2,323	25,193	4,899	80,380	4,075	13,168		
	2010	1,025	1,098	8,731	33,933	3,395	4,109	3,014	3,466	3,791	6,168	727	750	15,794	15,246	2,150	3,092	1,951	25,819	2,705	30,077	3,915	56,958	4,399	17,161		

Province	District	Year	Mustard		Ginger (raw)		Tumeric (raw)		Tobacco(Cigar)		Tobacco(Beedi)		Sorgham		Meneri		Manioc		Sweet Potato		
			Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	
Northern	Jaffna	2008									7	12					248	2,472			
		2009									33	58			4	3	230	2,644	1	7	
		2010									13	92					189	2,054			
	Kilinochchi	2008																62	372	4	5
		2009																			
		2010																25	247		
	Mannar	2008																10	106	2	18
		2009																10	242	1	11
		2010																10	250	1	11
	Vavniya	2008										33	60					92	945	4	45
		2009																65	1,343	2	24
		2010										11	15					57	584		
Mullativu	2008																42	236	5	19	
	2009																				
	2010																16	160			
Eastern	Bataloa	2008												3	2		240	2,766	34	146	
		2009												3	2		223	2,805	36	133	
		2010												4	2		270	3,172	31	109	
	Ampara	2008							14	11								369	3,279	120	893
		2009							8	10								207	1,447	30	289
		2010							21	46	1							265	2,459	36	388
	Trincomalee	2008									8	12						126	1,100	11	65
		2009																160	1,559	17	122
		2010																137	1,541	11	104
North Western	Kurunegara	2008	1	0					8	10				5	2		1,427	9,108	478	2,735	
		2009	3	1					16	22				2	1		1,362	8,647	489	2,787	
		2010							18	24	5	5		2	1		1,321	8,388	367	2,092	
	Puttalama	2008							6	8	200	333		1	1			426	5,080	64	563
		2009							7	9	72	170						422	4,417	55	458
		2010									248	407						406	5,842	62	567
North Central	Anuradhapura	2008	5	2					13	13								440	4,077	68	371
		2009	8	6					62	111	13	11		4	5			351	3,982	57	460
		2010	8	4					22	41	7	14						276	5,014	30	258
	Pollonnaruwa	2008							20	31	5	???		6	9			288	2,465	168	2,523
		2009							34	59	1	2		2	3			237	3,156	116	1,763
		2010	1	2					118	178	2	1						216	3,103	153	2,413
Uva	Badulla	2008	5	5					17	13			18	27				699	9,312	270	1,912
		2009	12	3					23	18			1	2	2	1		559	7,926	189	1,495
		2010	5	3					8	6			1	2	1	1		669	9,895	221	1,734
	Monaragala	2008													14	13		643	8,929	115	974
		2009													10	8		461	6,360	54	777
		2010													3	3		504	7832	70	744
Sri Lanka	2008	25	17	-	-	-	-	329	538	257	433	47	61	23	19		9,948	100,138	2,964	23,582	
	2009	41	22	-	-	-	-	789	1,380	136	269	31	38	18	14		9,158	99,140	2,492	20,278	
	2010	25	15	-	-	-	-	850	1,396	301	554	21	23	7	7		9,394	104,126	2,605	20,680	

Table A 3.13 OFC Cultivation and Production in Target Districts (Yala Cultivation) (2/2)

Province	District	Year	Luffa		Bandakka		Brinjal		Snake gourd		Tomato		Cucumber		Cabbage		Beetroot		Beans		Red pumpkin		Ash plantain		Capsicum				
			Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	
Northern	Jaffna	2008	9	26	109	692	154	1,217	56	327	76	640	7	25	45	219	51	357	20	100	101	844	146	900	25	105			
		2009	1	4	100	921	161	1,441	103	1,304	85	721	1	8	82	782	60	683	21	143	828	5,852	129	835	25	118			
		2010	4	15	132	948	222	1,684	73	551	117	836	10	38	61	875	62	672	37	244	126	1,024	166	1,328	31	102			
	Kilinochchi	2008	5	38	87	574	161	1,447	43	215	59	355	8	47	25	137	9	51			47	141	89	354	33	99			
		2009																											
		2010																											
	Mannar	2008			14	84	16	167	9	85	11	72	1	7	1	6			2	12	3	28	18	122	6	26			
		2009			14	216	16	243	9	93	8	108	1	13					1	4	4	62	18	366	6	50			
		2010			18	274	25	630	11	109	15	246	2	17	4	100			1	7	6	89	27	538	12	92			
	Vavuniya	2008	3	18	82	762	144	2,674	30	327	72	678	10	85	48	278	35	318	53	264	41	119	77	730	50	225			
		2009	4	40	68	977	152	2,850	36	787	57	1,294	4	53	69	791	26	301	25	127	66	669	83	900	55	492			
		2010			39	561	104	1,910	23	449	46	755	15	175	27	546	12	176	15	71	26	263	10	108	14	83			
Mullativu	2008			32	62	67	192	20	43	24	123			11	79	6	9	1	2	11	13	21	93	16	70				
	2009																												
	2010																												
Eastern	Bataloa	2008	31	252	109	794	159	1,633	57	307	44	262	25	81							20	123	113	466	3	8			
		2009	38	299	138	908	182	1,608	73	374	42	228	18	47								29	135	142	639	4	9		
		2010	31	256	132	946	168	1,608	62	357	38	221	9	28								27	156	107	498	3	8		
	Ampara	2008	105	455	259	2,089	250	2,980	84	849	68	594	155	1,311	3	17	1	6	22	65	359	3,374	390	3,413	24	95			
		2009	134	799	320	2,650	328	3,788	122	1,834	110	1,834	196	3,089	3	26	1	7	32	94	446	6,568	381	3,628	30	66			
		2010	181	2,891	219	2,271	229	3,268	87	1,552	89	1,563	57	1,021			1	11	16	81	444	10,531	206	3,722	12	81			
	Trincomalee	2008	22	182	76	667	101	1,037	39	371	39	319	14	118					2	8	62	456	89	614	6	25			
		2009			74	671	99	1,118	43	519	39	345	19	174					2	10	66	623	87	829	11	63			
		2010	38	673	93	908	98	1,162	39	480	44	460	19	190			1	14	5	24	56	590	94	1,024	16	114			
	North Western	Kurunegara	2008	176	1,189	394	1,617	419	1,886	229	749	178	887	219	1,679	10	19	223	1,658	22	40	334	2,497	455	1,570	214	632		
			2009	263	1,711	397	1,587	481	2,166	183	549	174	824	237	1,836	9	15	222	554	23	44	369	3,227	491	1,695	223	668		
			2010	292	1,856	343	1,322	512	2,303	147	441	175	824	235	1,878	9	13	211	532	18	34	324	2,757	504	1,715	229	688		
Puttalam		2008	105	635	142	1,186	163	1,496	64	784	61	486	46	405	360	3,554	119	1,087	1	2	96	1,100	132	1,361	178	910			
	2009	120	692	177	1,297	186	1,966	73	825	56	412	37	289	324	2,985	290	2,377			125	1,448	156	1,553	188	1,277				
North Central	Anuradhapura	2008	365	1,538	611	3,137	1,225	7,833	108	749	307	1,859	272	2,098	41	288	14	99	83	248	1,729	17,143	470	202	85	297			
		2009	321	2,443	582	3,938	1,147	9,942	141	1,210	274	2,160	220	2,470	27	232	20	123	92	322	1,497	17,395	523	3,892	88	466			
		2010	396	3,298	688	4,082	1,171	8,775	118	725	287	2,074	304	3,076	24	176	14	95	78	382	1,707	20,342	504	2,498	94	386			
	Pollonnaruwa	2008	106	761	145	1,306	168	1,680	72	769	68	549	60	577	2	14	4	19	37	125	141	1,437	247	1,822	61	179			
		2009	180	2,136	178	2,746	241	3,530	112	1,114	142	1,567	55	731	1	7	3	33	56	239	156	2,052	213	1,947	57	162			
		2010	161	1,623	165	1,870	222	2,388	78	783	100	1,192	51	576	4	19	2	10	35	177	142	2,096	268	3,397	44	188			
Uva	Badulla	2008	81	711	179	847	566	6,481	47	416	947	10,368	148	1,544	844	14,895	132	1,382	2,045	11,903	295	1,804	438	2,672	329	1,999			
		2009	79	701	168	1,062	539	6,974	45	394	955	10,015	137	1,441	665	11,782	114	1,412	1,867	11,032	266	2,615	460	3,770	277	1,471			
		2010	96	805	158	827	648	7,826	52	428	1,001	10,948	152	1,583	638	12,649	179	2,077	1,726	12,804	294	3,627	493	4,302	301	1,555			
	Monaragala	2008	168	1,339	256	2,377	508	6,192	90	1,156	192	1,876	191	2,031	1	10	2	19	39	183	800	10,182	746	7,913	48	219			
2009		195	2,006	266	2,913	512	6,555	81	1,157	154	1,518	194	1,945	1	15	2	19	31	379	714	9,571	721	8,869	42	193				
		2010	167	1,546	276	2,585	527	6,144	85	971	221	2,190	221	2,416	1	10	1	14	25	60	959	12,342	755	9,307	31	136			
Sri Lanka		2008	2,562	17,824	4,364	28,053	6,781	60,690	1,956	16,756	4,185	48,496	1,891	17,553	2,643	49,638	1,152	13,621	4,685	25,662	5,147	54,003	5,343	39,311	2,016	9,062			
		2009	2,638	23,444	4,192	33,928	6,535	67,374	1,921	20,339	4,020	41,930	1,774	18,540	2,316	35,682	1,336	12,732	4,615	24,009	5,661	65,028	5,121	44,981	1,818	8,324			
		2010	2,854	27,601	4,185	32,486	6,431	62,048	1,725	18,138	4,139	43,791	1,967	20,322	1,948	34,697	1,370	14,066	4,413	25,623	5,373	69,158	5,099	47,988	1,695	7,252			

Table A 3.14

Vegetable Cultivation and Production in Target Districts (Maha Cultivation)

Table A 3.15

Vegetable Cultivation and Production in Target Districts (Yala Cultivation)

Province	District	Year	Luffa		Bandakka		Brinjal		Snake gourd		Tomato		Cucumber		Cabbage		Beetroot		Beans		Red Pumpkin		Ash plantain		Capsicum		
			Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)
Northern	Jaffna	2008			76	589	89	764	35	294	45	408	2	9	25	142	37	324	47	156	57	361	119	985	5	5	27
		2009	2	10	85	753	134	1,241	43	364	56	539	3	14	40	346	46	480			74	817	102	926	16	82	
		2010			88	752	118	1,172	40	389	51	499	3	8	36	351	35	515	1	7	56	762	89	841	9	55	
	Kilinochchi	2008			20	137	52	333	8	40	7	46			8	40	5	31			18	78	26	83	5	10	
		2009																									
		2010					22	530	10	288	6	70									15	380			10	38	
	Mannar	2008			7	108	9	220	5	46	5	59	1	13							3	38	11	224	5	38	
		2009			8	118	9	228	3	34	5	58	2	19							4	49	11	222	4	28	
		2010			16	246	17	429	7	60	10	132	4	40							4	56	14	272	6	34	
	Vavuniya	2008	1	10	39	566	80	1,505	22	475	31	591	2	28	23	506	12	252	15	78	37	110	46	502	39	351	
		2009	2	20	28	396	66	1,242	20	429	30	557	3	36	6	141	16	333	2	11	24	242	10	103	21	184	
		2010	3	28	23	329	88	1,652	29	628	44	829			4	50	20	418	2	13	15	46	34	369	13	80	
	Mullativu	2008			12	62	38	257	12	81	16	124			8	56	4	18	2	7	18	91	5	30	10	34	
		2009																									
		2010					39	950	8	252	11	144			2	51		10			14	350					
Eastern	Bataloa	2008	14	118	97	718	105	980	38	203	26	144	14	68							10	64	91	495	10	49	
		2009	34	189	84	628	91	838	23	132	14	93	12	60	2	16					22	152	78	408	2	6	
		2010	28	171	98	706	106	954	32	150	21	120	12	57							25	180	73	377	5	25	
	Anmpara	2008	26	191	151	1,387	190	2,054	74	651	29	275	61	500					2	7	101	1,377	168	1,522	7	30	
		2009	18	149	71	599	75	843	32	538	19	212	16	249							102	1,975	117	1,253	3	9	
		2010	42	574	88	1,186	109	1,314	40	563	17	202	35	665							185	4,006	573	5,078	4	9	
	Trincomalee	2008	2	12	43	320	48	370	12	100	9	77	2	14							14	79	50	325	2	11	
		2009	11	103	48	397	61	589	16	159	15	132	6	49							22	174	55	448	4	21	
		2010	8	126	43	386	66	686	15	171	14	137	4	42							24	214	61	565	3	18	
North Western	Kurunegara	2008	228	1,572	346	1,628	413	1,926	151	1,086	133	618	254	2,080	4	5	232	1,044	27	94	377	2,843	378	3,654	176	531	
		2009	272	1,834	388	1,824	398	1,830	184	1,286	122	563	306	2,296	7	9	233	1,049	28	90	369	2,766	384	3,648	194	581	
		2010	236	1,593	309	1,452	345	1,589	141	977	119	548	227	2,271	9	9	254	1,343	19	61	299	2,241	414	3,929	203	609	
	Puttalama	2008	81	776	136	826	142	1,713	46	530	29	165	41	434	65	1,121	119	1,326			55	690	115	1,235	145	509	
		2009	77	581	135	770	125	1,266	33	309	20	87	27	232	10	167	111	1,234			82	925	90	575	124	432	
		2010	62	596	139	847	127	1,656	45	574	21	132	29	313	39	680	90	996			82	1,097	128	901	143	679	
North Central	Anuradhapura	2008	122	511	270	1,372	453	2,458	80	414	79	466	103	834	17	82	55	272	9	43	504	5,282	379	1,907	43	134	
		2009	126	708	276	1,678	468	2,676	72	441	209	516	99	788	12	76	9	61	1	3	705	7,137	263	1,307	54	230	
		2010	129	758	341	2,289	503	3,499	73	408	67	620	83	626	6	63	44	333	2	5	507	5,857	248	1,211	47	228	
	Pollonnaruwa	2008	67	659	64	1,105	102	1,469	50	602	30	367	29	268			3	22	6	36	75	1,168	175	2,254	13	6	
		2009	55	510	69	1,000	87	1,542	37	379	23	312	19	254					3	5	67	1,280	152	2,025	10	54	
		2010	47	444	93	1,418	112	1,725	40	433	21	314	36	490					5	10	87	1,357	160	2,149	15	71	
Uva	Badulla	2008	43	361	126	610	614	7,955	23	231	667	7,848	101	1,028	528	11,802	128	1,790	1,456	8,492	206	5,078	296	2,906	276	1,359	
		2009	56	451	105	576	486	6,811	30	322	610	7,902	87	912	428	11,127	115	1,348	1,443	8,390	178	1,907	266	2,939	238	1,594	
		2010	59	459	118	684	514	7,386	36	282	647	8,133	102	1,098	444	11,294	105	1,138	1,406	8,905	176	2,063	282	2,845	217	1,256	
	Monaragala	2008	104	1,153	188	2,098	222	2,917	66	810	59	679	117	1,266	1	10	1	10	14	35	260	4,448	526	7,006	62	339	
		2009	48	371	113	994	173	2,023	37	441	34	366	61	572	1	10	1	10	6	14	172	2,040	411	5,178	37	181	
		2010	69	645	151	1,471	218	2,702	37	458	35	400	97	888	1	20			7	15	410	4,917	427	4,959	63	325	
Sri Lanka	2008	1,765	16,011	3,237	24,075	4,661	43,474	1,449	15,516	3,549	36,202	1,362	13,508	1,825	27,290	1,218	12,257	3,378	16,900	402	3,503	2,590	33,219	4,060	39,088		
	2009	1,790	16,133	3,038	22,621	4,226	39,007	1,247	13,082	3,117	31,987	1,318	13,217	1,699	27,092	1,356	13,932	3,295	16,504	309	3,166	3,536	42,291	3,328	32,652		
	2010	1,854	17,524	3,219	25,302	4,580	45,248	1,420	14,688	3,122	31,544	1,336	13,303	1,729	28,135	1,354	13,889	3,302	17,068	393	4,242	3,315	39,738	4,164	39,330		

Province	District	Year	Mango		Jak fruits		Plantain		Papaw		Pineapple		Passion fruits		Cashew		Orange		Lime		
			Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	Ext. (ha)	Prod. (mt)	
Northern	Jaffna	2008	465	5,260	194	196	565	606	46	266							38	300	85	724	
		2009	416	4,981	237	294	453	473	52	321							45	185	114	1,753	
		2010	289	3,457	115	139	313	392	45	258				8	3	38	167	96	1,596		
	Kilinochchi	2008	46	509	35	39	146	77	17	82					1	0	4	17	6	37	
		2009																			
	Mannar	2010	132	985			10	2													
		2008	44	867	11	6	68	40	18	68	1	4	2	20	119	52	8	32	14	123	
		2009	47	981	12	8	76	43	25	107	1	4	1	4	107	48	9	38	14	114	
	Vavniya	2010	68	1,590	22	19	89	50	17	113				2	10	119	44	12	62	18	178
		2008	69	1,073	91	284	185	114	17	54							34	104	48	370	
		2009	154	2,650	192	241	265	119	55	77							85	977	92	752	
	Mullativu	2010	212	1,924	166	310	267	113	90	183							75	141	94	432	
		2008	56	633	38	68	12	9	14	58	1	2					19	100	29	150	
		2009																			
	Eastern	Bataloa	2010	44	346	14	20											6	6	38	395
2008			500	5,723	227	217	460	176	60	295					678	166	63	297	47	248	
2009			491	5,729	210	405	440	207	58	306					678	150	53	231	42	216	
Anmpara		2010	508	5,818	229	429	549	276	58	306	1	2			672	151	66	304	53	261	
		2008	873	7,970	649	1,365	1,272	272	229	504	180	615	7	8	676	169	384	677	1,095	9,391	
		2009	751	6,447	455	1,624	885	487	131	615	41	324	3	17	530	106	171	1,102	789	5,599	
Trincomalee		2010	938	8,589	583	2,411	993	566	177	837	72	608	3	20	585	107	280	2,052	803	6,114	
		2008	428	3,134	304	614	246	102	38	164					85	12	85	421	73	683	
		2009	358	3,565	203	737	305	124	61	331	5	26			109	14	81	402	90	924	
North Western		Kurunegara	2010	350	3,674	190	773	310	127	65	355	6	34			117	16	86	459	104	1,059
			2008	4,620	75,855	5,403	21,429	8,362	6,414	429	2,996	1,636	17,325	51	183	5,889	1,939	435	3,177	920	19,500
			2009	4,361	70,039	5,272	20,745	8,289	6,434	471	3,278	1,627	17,277	49	172	5,825	1,914	514	3,163	1,009	19,769
	Puttalama	2010	4,533	69,385	5,221	19,210	7,874	6,256	577	3,477	1,578	17,294	18	67	5,468	1,766	608	3,596	1,211	20,366	
		2008	972	15,174	600	995	1,678	599	348	2,471	229	1,071	14	79	7,433	2,361	504	1,602	414	5,429	
		2009	903	12,474	617	716	1,598	348	235	970	163	626	16	73	7,125	2,153	501	2,785	420	3,482	
	Anuradhapura	2010	977	13,036	653	736	1,816	427	323	1,362	201	954	17	47	7,966	2,374	480	2,533	466	3,535	
		2008	1,748	28,694	1,295	1,977	2,388	810	513	1,376	7	5			1,670	405	561	1,950	1,017	8,487	
		2009	1,741	22,090	1,286	2,345	2,241	1,330	528	2,476	9	10	3	35	1,745	415	741	3,511	1,056	16,541	
	Polonnaruwa	2010	1,735	22,317	1,412	3,014	2,346	1,407	602	3,693	7	12	5	30	1,744	411	707	3,133	1,128	19,904	
		2008	858	15,515	541	898	992	423	219	570					357	87	295	1,274	362	4,084	
		2009	891	15,894	565	1,424	1,012	398	214	1,059					318	80	308	1,424	416	4,247	
Uva	Badulla	2010	871	16,147	587	1,501	962	436	202	1,234	32	274	1	6	324	83	352	1,574	409	4,441	
		2008	832	18,668	1,646	6,049	1,947	1,081	283	2,595	122	783	16	220	806	221	489	5,869	618	14,460	
		2009	952	18,859	1,851	6,890	1,955	1,238	283	2,432	138	1,170	12	135	818	187	494	5,308	563	11,261	
	Monaragala	2010	960	21,217	1,892	6,956	2,181	1,407	313	2,752	140	1,091	12	172	805	200	540	5,989	610	13,787	
		2008	1,843	30,507	1,170	3,220	4,927	4,327	318	3,779	248	2,414	36	291	795	170	599	3,786	2,378	62,379	
		2009	1,735	24,866	1,042	2,890	4,603	3,811	307	2,157	229	1,876	31	231	811	208	565	5,016	2,439	46,093	
Sri Lanka	2010	1,932	31,933	1,224	3,286	5,545	4,903	332	2,391	265	2,510	31	209	917	258	651	6,321	2,692	59,374		
	2008	25,747	394,598	38,089	170,501	47,682	33,121	6,276	38,361	4,962	43,480	434	4,807	22,472	6,625	5,149	28,847	9,898	166,821		
	2009	26,120	411,763	37,475	176,096	48,044	31,982	6,120	37,320	4,782	41,289	466	4,812	21,836	6,305	5,354	33,163	10,302	149,653		
		2010	27,179	423,903	38,396	182,995	52,378	35,776	7,716	49,600	4,956	44,188	400	4,395	22,708	6,489	5,766	35,771	11,088	172,739	

Table A 3.16

Fruits Cultivation and Production in Target Districts (Annual Production)

Table A 3.17 Duty Changes of Other Field Crops 2000 – 2009 (1/2)

1. Red Onion (%)

Year/Period	Cus. Duty	VAT	NSL	PAL	SRL	SUR	NBT	Waiver	SCL
2000	35.0	12.0	5.5						
2001	35.0	12.0	5.5						
2002	35.0	Ex	6.5						
2003	Rs.5/kg	10.0							
2004	Rs.5/kg	15.0							
2005	Rs.5/kg	5.0							
2006	Rs.5/kg	12.0		5.0	1.5				
2007	Rs.5/kg	5.0		3.0	1.0			Rs.5/kg	
09.01.'08-26.08.'08	Rs.5/kg	12.0		5.0	1.5		3.0		
26.08.'08-07.11.'08	Rs.5/kg	12.0		5.0	1.5		3.0		
07.11.'08-04.02.'09	Rs.5/kg	12.0		5.0	1.5		3.0		
04.02.'09-09.11.'09	Rs.5/kg	12.0		5.0	1.5		3.0		
10.11.'09-									Rs.10/kg

2. Big Onion (%)

Year/Period	Cus. Duty	VAT	NSL	PAL	SRL	SUR	NBT	Waiver	SCL
2000	35.0	12.0	5.5						
2001	35.0	12.0	5.5						
2002	35.0		6.5						
2003	Rs.6/kg	10.0							
2004	Rs.10/kg	15.0							
2005	Rs.8/kg	5.0							
2006	Rs.20/kg	12.0		5.0	1.5				
2007	Rs.20/kg	5.0		3.0					
09.01.'08-26.08.'08									Rs.20/kg
26.08.'08-07.11.'08									Rs.20/kg
07.11.'08-04.02.'09									Rs.20/kg
04.02.'09-09.11.'09									Rs.25/kg
10.11.'09-									Rs.10/kg

Abbreviations

Cus Duty	Custom Duty	SUR	Surcharge
VAT	Value Added Tax	NBT	National Building Tax
NSL	National Security Levy	Waiver	Duty Waiver
PAL	Port & Airport Development Levy	SCL	Special Commodity Levy
SRL	Social Responsibility Levy		

Source: Sri Lanka Customs from C.P. Hathurusinghe et al, Production and Marketing of Other Field Crops: A Review, 2012 HARTI

Table A 3.17 Duty Changes of Other Field Crops 2000 – 2009 (2/2)

3. Dried Chillies (%)

Year/Period	Cus. Duty	VAT	NSL	PAL	SRL	SUR	NBT	Waiver	SCL
2000	35.0	12.0	5.5						
2001	35.0	12.0	5.5						
2002	35.0		6.5						
2003	Rs.30/kg	10.0							
2004	Rs.30/kg	15.0							
2005	Rs.30/kg	5.0							
2006	Rs.30/kg	12.0		5.0	1.5				
2007	Rs.30/kg	5.0		3.0				Rs.12/kg	
09.01.'08-26.08.'08									Rs.30/kg
26.08.'08-07.11.'08									Rs.30/kg
07.11.'08-04.02.'09									Rs.30/kg
04.02.'09-09.11.'09									Rs.40/kg
10.11.'09-									Rs.20/kg

4. Green Gram (%)

Year/Period	Cus. Duty	VAT	NSL	PAL	SRL	SUR	NBT	Waiver	SCL
2000	35.0	12.0	5.5						
2001	35.0	12.0	5.5						
2002	35.0		6.5						
2003	Rs.30/kg	10.0							
2004	Rs.30/kg	15.0							
2005	Rs.30/kg	5.0							
2006	Rs.30/kg	12.0		5.0	1.5	15.0			
2007	Rs.30/kg	5.0		3.0	1.0	10.0		Rs.5/kg	
09.01.'08-26.08.'08									Rs.13/kg
26.08.'08-07.11.'08									Rs.13/kg
07.11.'08-04.02.'09									Rs.13/kg
04.02.'09-09.11.'09									Rs.15/kg
10.11.'09-									Rs.15/kg

Abbreviations

Cus Duty	Custom Duty	SUR	Surcharge
VAT	Value Added Tax	NBT	National Building Tax
NSL	National Security Levy	Waiver	Duty Waiver
PAL	Port & Airport Development Levy	SCL	Special Commodity Levy
SRL	Social Responsibility Levy		

Source: Sri Lanka Customs from C.P. Hathurusinghe et al, Production and Marketing of Other Field Crops: A Review, 2012 HARTI

	Economic Centre	Established	Located District	No. of Stall	No. of Trader	Trade Capacity (Mt/week)	Major Commodity	Type of Function	Facility
1.	Dambulla	1999	Matale	146	145	26,500	vegetable & fruits	Wholesale	Park, Bank, Police
2.	Keppetipola	2001	Badulla	56	56		Upcountry vegetable	Exchange	Park, Storage, Canteen
3.	Meegoda	2003	Colombo	104	75		Vegetable & fruits	Wholesale, Collecting	Generator, Park, Bank, Polica
4.	Welisara	2003	Gampaha	122	105		Vegetable & fruits	Wholesale	
5.	Thambuththegama	2005	Anuradhapura	56	50	2,800	Low country vegetable	Collecting	Park, Bank, Police
6.	Nuwara-Eliya	2006	Nuwara Eliya	136	129	992.5	Upcountry vegetable	Wholesale & Collecting	Park, Bank, Police, Storage
7.	Veyangoda	2007	Gampaha	64	52		Vegetable & fruits	Pola vendor-50%, Retail Boutique-25%, Consumer-25%	Generator, Park, Polica, Restaurant
8.	Kurunduwatta	2008	Kandy	15	15		Spices	Collecting	Park, Meeting, Bank
9.	Narahenpita	2008	Colombo	208	143	26,500	Consumer Items	Consumer	Park, Bank, Police
10.	Rathmalana	2009	Colombo	128	110		Consumer Items	Consumer	Park, Bank
11.	Piliyandala	2010	Colombo	56	46		Consumer Items	Consumer	Park
12.	Embilipitiya		Rathnapura	45	42		Banana	Distribution	Open hall,

Source: Website of Ministry of Cooperatives and Internal Trade

Table A 3.18

Dedicated Economic Centres

Table A 3.19 Import and Export Information of Selected Commodity : Average of 2000 - 2009 (except 2006 & 2007)

/Item	Import					Export				
	Traded Country	Data Available Years	Avg Annal Quantity (mt)	Avg Annal Expenditure ('000\$)	Avg Price (\$/Mt)	Traded Country	Data Available Years	Avg Annal Quantity (mt)	Avg Annal Expenditure ('000\$)	Avg Price (\$/Mt)
1. OFC										
Chillies and peppers, dry	20	8	28,140	23,956	851	37	5	249	605	2,432
Chillies and peppers, green	3	8	22	94	4,196	12	8	26	17	652
Onions, dry	21	8	135,536	28,354	209	13	8	40	20	492
Beans, dry	25	8	17,803	7,321	411	11	8	34	55	1,611
Lentils	33	8	94,397	52,598	557	34	8	3,000	3,175	1,058
Peas, dry	20	8	21,934	7,907	360	20	3	54	26	472
Maize	17	8	99,466	18,839	189	1	1	0	0	
Flour of Maize	14	8	325	101	311	6	8	1,875	2,875	1,533
Prepared Groundnuts	6	8	277	314	1,133	7	8	6	13	2,191
Groundnuts, with shell	1	4	885	438	495	0	0			
Cassava Dried	2	2	5	1	222	19	8	1,733	903	521
2. Vegetable										
Vegetables fresh nes	7	8	14	9	688	67	8	6,066	5,334	879
Veg.Prod.Fresh Or Dried	3	4	2	7	2,889	1	1	1	2	2,000
Vegetables in Vinegar	11	8	37	47	1,260	40	8	3,666	3,771	1,029
Vegetables Preserved Nes	0	8	319	425	1,333	15	8	12	33	2,839
Cabbages and other brassicas	5	8	9	14	1,554	9	7	9	7	746
3. Temperate Zone Fruits										
Apples	23	8	17,575	6,670	379	2	5	11	7	636
Grapes	20	8	3,258	3,009	924	3	5	4	7	1,682
Oranges	20	8	7,692	2,210	287	7	6	13	17	1,275
Citrus fruit, nes	5	8	53	31	579	30	8	999	976	976
Tangerines, mandarins, clem.	11	8	2,488	591	238	7	7	9	19	2,129
Apricots	2	3	11	4	353	0	1	0	1	
Pears	10	8	805	240	298	1	3	1	2	1,500
4. Fruits Of Sri Lanka										
Pineapples	6	5	8	24	3,025	44	8	2,406	2,106	876
Pineapples Cand	6	8	10	12	1,175	17	8	209	416	1,991
Plantains	2	3	23	20	882	21	5	899	423	471
Mangoes, mangosteens,	2	4	2	17	8,625	20	8	48	126	2,644
Bananas	0	1	0	0	#DIV/0!	5	3	5	14	2,688
Papayas	2	5	16	20	1,250	21	6	228	269	1,182
Fruit Juice Nes	25	8	599	474	791	48	8	1,348	2,075	1,539
Fruit Dried Nes	16	8	415	228	549	31	8	2,476	1,643	664
Cashew Nuts Shelled	7	7	91	291	3,186	30	8	145	922	6,343
Cashew nuts, with shell	6	4	310	284	916	0	3	0		4
5. Oil Commodity										
Coconuts	5	5	14	7	521	72	8	36,855	9,011	245
Coconut (copra) oil	6	7	13,797	3,052	221	29	8	12,073	2,670	221
Coconuts Desiccated	12	7	87	79	1,097	111	8	46,217	44,248	957
Copra	4	6	384	12,961	736	20	8	288	93	736
Coir	5	6	28	13	461	105	6	150,935	34,169	226
Palm kernel oil	5	8	15,426	7,106	461	2	5	95	62	649
Palm oil	8	8	112,733	56,311	0	8	8	3,915	697	178
Rapeseed oil	4	8	41	18	433	0	1	0	2	
Sesame seed	5	8	305	117	384	14	8	756	602	796
Sesame oil	6	8	506	601	1,189	14	8	41	131	3,176

Source: FAOSTAT

Table A 3.20 Crop Budget per Hectare for OFC, Paddy and Vegetables under Present Conditions (1/3)

	Unit	Maize			Kurakkan			Black gram			Cowpea			Green gram			Gingelly		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																			
Yield	(kg)	29.0	2,880.0	83,520.0	60.0	1,020.0	61,200.0	160.0	960.0	153,600.0	135.0	1,030.0	139,050.0	170.0	951.0	161,670.0	120.0	730.0	87,600.0
B. Production Cost																			
1) Seeds	(kg)	661.0	11.9	7,865.9	66.0	12.1	798.6	178.0	24.7	4,396.6	154.0	25.2	3,880.8	263.0	24.0	6,312.0	183.0	10.9	1,994.7
2) Fertilizers																			
- Urea	(kg)	26.0	101.0	2,626.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0
- TSP	(kg)	26.0	73.0	1,898.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0
- MOP	(kg)	26.0	55.0	1,430.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0
- TDM	(kg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Mixture	(kg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Poultry manure	(ton)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				5,954.0			0.0			0.0			0.0			0.0			0.0
3) Agro-chemicals																			
- Herbicide	(Rs)	4,600.0	1.0	4,600.0	4,600.0	0.0	0.0	4,600.0	1.0	4,600.0	4,600.0	0.0	0.0	4,600.0	1.0	4,600.0	4,600.0	0.0	0.0
- Pesticide	(Rs)	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0
Sub-total				8,790.0			4,190.0			8,790.0			4,190.0			8,790.0			4,190.0
4) Machinery																			
Land preparation	(Rs)	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0
Irrigation by pump	(Rs)	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0
Threshing and winnowing per ton	(ton)	2,450.0	2.9	7,056.0	2,450.0	1.0	2,499.0	2,450.0	1.0	2,352.0	2,450.0	1.0	2,523.5	2,450.0	1.0	2,330.0	2,450.0	0.7	1,788.5
Transport produce per ton	(ton)	380.0	2.9	1,094.4	380.0	1.0	387.6	380.0	1.0	364.8	380.0	1.0	391.4	380.0	1.0	361.4	380.0	0.7	277.4
Sub-total				21,550.4			16,286.6			16,116.8			16,314.9			16,091.3			15,465.9
5) Human labor																			
- Hired	(prn/day)	740.0	30.0	22,200.0	740.0	10.0	7,400.0	740.0	27.0	19,980.0	740.0	12.0	8,880.0	740.0	40.0	29,600.0	740.0	25.0	18,500.0
- Family	(prn/day)	0.0	54.0	0.0	0.0	89.0	0.0	0.0	25.0	0.0	0.0	84.0	0.0	0.0	32.0	0.0	0.0	35.0	0.0
Sub-total			84.0	22,200.0		99.0	7,400.0		52.0	19,980.0		96.0	8,880.0		72.0	29,600.0		60.0	18,500.0
6) Support	(Rs)			0.0			0.0			0.0		0.0			0.0			0.0	0.0
7) Miscellaneous (5%)				3,318.0			1,433.8			2,464.2			1,663.3			3,039.7			2,007.5
Total Cost																			
- Including family labour	(Rs)			109,638.3			95,969.0			70,247.6			97,089.0			87,513.0			68,058.1
- Excluding family labour	(Rs)			69,678.3			30,109.0			51,747.6			34,929.0			63,833.0			42,158.1
C. Net Return																			
- Including family labour	(Rs)			-26,118.3			-34,769.0			83,352.4			41,961.0			74,157.0			19,541.9
- Excluding family labour	(Rs)			13,841.7			31,091.0			101,852.4			104,121.0			97,837.0			45,441.9
Source (1): For farm inputs, figures available in Cost of Cultivation of Agricultural Crops, 2009/10 Maha and 2010 Yala (DOA) are referred.																			
(2): For prices, those presented in attached Table 3.46C were referred.																			

Table A 3.20 Crop Budget per Hectare for OFC, Paddy and Vegetables under Present Conditions (2/3)

	Unit	Soybean			Groundnut			Chilli (Green)			Red onion			Big onion			Paddy Irrigated		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																			
Yield	(kg)	45.0	1,630.0	73,350.0	99.0	1,290.0	127,710.0	100.0	3,700.0	370,000.0	87.0	10,970.0	954,390.0	67.0	10,300.0	690,100.0	28.0	5,500.0	154,000.0
B. Production Cost																			
1) Seeds	(kg)	135.0	54.4	7,344.0	111.0	154.0	17,094.0	1,976.0	1.8	3,458.0	112.0	1,406.2	157,494.4	4,201.0	7.7	32,347.7	64.0	139.3	8,915.2
2) Fertilizers																			
-Urea	(kg)	26.0	0.0	0.0	26.0	0.0	0.0	26.0	197.5	5,135.8	26.0	98.8	2,568.0	26.0	143.0	3,718.0	7.0	369.0	2,583.0
- TSP	(kg)	26.0	0.0	0.0	26.0	0.0	0.0	26.0	96.3	2,503.8	26.0	207.4	5,392.4	26.0	133.0	3,458.0	7.0	172.0	1,204.0
- MOP	(kg)	26.0	0.0	0.0	26.0	0.0	0.0	26.0	197.5	5,135.8	26.0	0.0	0.0	26.0	0.0	0.0	7.0	275.0	1,925.0
- TDM	(kg)	0.0	0.0	0.0	0.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0
- Mixture	(kg)	0.0	0.0	0.0	0.0	0.0	0.0	26.0	239.5	6,227.0	26.0	229.6	5,969.6	26.0	377.0	9,802.0	0.0	0.0	0.0
- Poultry manure	(ton)	0.0	0.0	0.0	0.0	0.0	0.0	2,000.0	0.0	0.0	2,000.0	0.0	0.0	2,000.0	0.0	0.0	0.0	0.0	0.0
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	0.0	0.0	0.0
Sub-total				0.0			0.0			19,002.4			13,930.0			16,978.0			5,712.0
3) Agro-chemicals																			
- Herbicide	(Rs)	4,600.0	0.0	0.0	4,600.0	0.0	0.0	5,910.0	0.0	0.0	5,910.0	0.0	0.0	5,910.0	0.0	0.0	8,150.0	1.0	8,150.0
- Pesticide	(Rs)	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	34,550.0	1.0	34,550.0	34,550.0	1.0	34,550.0	34,550.0	1.0	34,550.0	4,210.0	1.0	4,210.0
Sub-total				4,190.0			4,190.0			34,550.0			34,550.0			34,550.0			12,360.0
4) Machinery																			
Land preparation	(Rs)	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0
Irrigation by pump	(Rs)	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.5	11,800.0	23,600.0	1.0	23,600.0	23,600.0	1.0	23,600.0	23,600.0	0.0	0.0
Threshing and winnowing per ton	(ton)	2,450.0	1.6	3,993.5	2,450.0	1.3	3,160.5	2,450.0	0.0	0.0	2,450.0	0.0	0.0	2,450.0	0.0	0.0	2,450.0	5.5	13,475.0
Transport produce per ton	(ton)	380.0	1.6	619.4	380.0	1.3	490.2	380.0	3.7	1,406.0	380.0	11.0	4,168.6	380.0	10.3	3,914.0	380.0	5.5	2,090.0
Sub-total				18,012.9			17,050.7			26,606.0			41,168.6			40,914.0			28,965.0
5) Human labor																			
- Hired	(prn/day)	740.0	32.0	23,680.0	740.0	32.0	23,680.0	740.0	35.0	25,900.0	740.0	166.0	122,840.0	740.0	151.0	111,740.0	740.0	32.0	23,680.0
- Family	(prn/day)	0.0	56.0	0.0	0.0	94.0	0.0	0.0	245.0	0.0	0.0	54.0	0.0	0.0	64.0	0.0	0.0	35.0	0.0
Sub-total			88.0	23,680.0		126.0	23,680.0		280.0	25,900.0		220.0	122,840.0		215.0	111,740.0		67.0	23,680.0
6) Support	(Rs)			0.0			0.0			0.0			0.0			0.0			0.0
7) Miscellaneous (5%)				2,661.3			3,100.7			5,475.8			18,499.2			11,826.5			3,981.6
Total Cost																			
- Including family labour	(Rs)			97,328.2			134,675.4			296,292.2			428,442.2			295,716.2			109,513.8
- Excluding family labour	(Rs)			55,888.2			65,115.4			114,992.2			388,482.2			248,356.2			83,613.8
C. Net Return																			
- Including family labour	(Rs)			-23,978.2			-6,965.4			73,707.8			525,947.8			394,383.8			44,486.2
- Excluding family labour	(Rs)			17,461.8			62,594.6			255,007.8			565,907.8			441,743.8			70,386.2

Source (1): For farm inputs, figures available in Cost of Cultivation of Agricultural Crops, 2009/10 Maha and 2010 Yala (DOA) are referred.
(2): For prices, those presented in attached Table 3.46C were referred.

Table A 3.20 Crop Budget per Hectare for OFC, Paddy and Vegetables under Present Conditions (3/3)

	Unit	Paddy Rainfed			Brinjal			Pumpkin			Capsicum			Tomato			Vegetable's Average		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																			
Yield	(kg)	28.0	3,500.0	98,000.0	38.5	9,900.0	381,150.0	20.0	11,580.0	231,600.0	90.5	4,600.0	416,070.0	48.5	10,030.0	486,455.0			378,818.8
B. Production Cost																			
1) Seeds	(kg)	64.0	102.2	6,540.8	10,092.0	0.6	5,954.3	19,090.0	0.5	9,354.1	11,109.0	1.6	17,307.8	29,568.0	0.4	10,940.2			
2) Fertilizers																			
- Urea	(kg)	7.0	402.0	2,814.0	26.0	325.9	8,474.2	26.0	165.4	4,301.2	26.0	102.0	2,652.0	26.0	61.7	1,605.0			
- TSP	(kg)	7.0	203.0	1,421.0	26.0	135.8	3,530.8	26.0	138.3	3,595.0	26.0	0.0	0.0	26.0	0.0	0.0			
- MOP	(kg)	7.0	388.0	2,716.0	26.0	261.7	6,805.0	26.0	84.0	2,182.7	26.0	0.0	0.0	26.0	0.0	0.0			
- TDM	(kg)	0.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	339.0	8,814.0	26.0	195.1	5,071.6			
- Mixture	(kg)	0.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	26.0	473.0	12,298.0	26.0	414.8	10,785.1			
- Poultry manure	(ton)	0.0	0.0	0.0	2,000.0	0.0	0.0	2,000.0	0.0	0.0	2,000.0	8.0	16,000.0	2,000.0	11.0	22,000.0			
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Sub-total				6,951.0			18,810.0			10,078.9			39,764.0			39,461.6			
3) Agro-chemicals																			
- Herbicide	(Rs)	8,150.0	1.0	8,150.0	5,910.0	0.0	0.0	5,910.0	1.0	5,910.0	5,910.0	0.0	0.0	5,910.0	0.0	0.0			
- Pesticide	(Rs)	4,210.0	1.0	4,210.0	34,550.0	1.0	34,550.0	34,550.0	1.0	34,550.0	34,550.0	1.0	37,284.0	34,550.0	1.0	42,232.1			
Sub-total				12,360.0			34,550.0			40,460.0			37,284.0			42,232.1			
4) Machinery																			
Land preparation	(Rs)	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0			
Irrigation by pump	(Rs)	23,600.0	0.0	0.0	23,600.0	0.5	11,800.0	23,600.0	0.5	11,800.0	23,600.0	0.5	11,800.0	23,600.0	0.5	11,800.0			
Threshing and winnowing per ton	(ton)	2,450.0	3.5	8,575.0	2,450.0	0.0	0.0	2,450.0	0.0	0.0	2,450.0	0.0	0.0	2,450.0	0.0	0.0			
Transport produce per ton	(ton)	380.0	3.5	1,330.0	380.0	9.9	3,762.0	380.0	11.6	4,400.4	380.0	4.6	1,748.0	380.0	10.0	3,811.4			
Sub-total				23,305.0			28,962.0			29,600.4			26,948.0			29,011.4			
5) Human labor																			
- Hired	(prn/day)	740.0	27.0	19,980.0	740.0	136.0	100,640.0	740.0	15.0	11,100.0	740.0	89.0	65,860.0	740.0	89.0	65,860.0			
- Family	(prn/day)	0.0	49.0	0.0	0.0	180.0	0.0	0.0	79.0	0.0	0.0	171.0	0.0	0.0	194.0	0.0			
Sub-total				76.0	19,980.0	316.0	100,640.0	94.0	11,100.0	65,860.0	283.0	65,860.0	283.0	65,860.0	283.0	65,860.0			
6) Support	(Rs)			0.0			0.0			0.0		0.0			44,900.0				
7) Miscellaneous (5%)				3,456.8			9,445.8			5,029.7		9,358.2			11,620.3				
Total Cost																			
- Including family labour				108,853.6			331,562.1			164,083.1		323,062.0			387,585.5			301,573.2	
- Excluding family labour				72,593.6			198,362.1			105,623.1		196,522.0			244,025.5			186,133.2	
Net Return																			
- Including family labour				-10,853.6			49,587.9			67,516.9		93,008.0			98,869.5			77,245.6	
- Excluding family labour				25,406.4			182,787.9			125,976.9		219,548.0			242,429.5			192,685.6	

Source (1): For farm inputs, figures available in Cost of Cultivation of Agricultural Crops, 2009/10 Maha and 2010 Yala (DOA) are referred.
(2): For prices, those presented in attached Table 3.46C were referred.

Table A 3.21

Crop Budget per Hectare for Fruits under Present Condition (1/9)

(1) Banana	Unit	Unit Price (Rs)	Banana: 1st Year		Banana: 2nd Year		Banana: 3rd-7th Year Ave.		Banana: 8-12th Yr Ave.		Banana: 13-15th Yr Ave.		Banana: 15-Year Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income															
Yield	(kg)	20.0	0.0	0.0	14,300.0	286,000.0	10,000.0	200,000.0	6,700.0	134,000.0	3,800.0	76,000.0	7,280.0	145,600.0	
B. Production Cost															
1) Suckers	(kg)	24.3	1,100.0	26,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.3	1,782.0	
2) Fertilizers															
- Urea	(kg)	26.0	263.5	6,852.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	456.8	
- TSP	(kg)	26.0	175.7	4,568.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	304.5	
- MOP	(kg)	26.0	548.8	14,267.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	951.2	
- Compost	(ton)	2,000.0	10.0	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1,333.3	
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				45,688.0		0.0		0.0		0.0		0.0		3,045.9	
3) Agro-chemicals															
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(Rs)	10,640.0	0.0	0.0	1.0	10,640.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	709.3	
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				0.0		10,640.0		0.0		0.0		0.0		709.3	
4) Machinery															
Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	893.3	
Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	
Transport produce per ton	(Rs)	380.0	0.0	0.0	14.3	5,434.0	10.0	3,800.0	6.7	2,546.0	3.8	1,444.0	7.3	2,766.4	
Sub-total				25,200.0		17,234.0		15,600.0		14,346.0		13,244.0		15,459.7	
5) Human labor															
- Hired	(prn/day)	740.0	94.0	69,560.0	34.8	25,752.0	34.8	25,752.0	34.8	25,752.0	34.8	25,752.0	38.7	28,672.5	
- Family	(prn/day)	0.0	141.0	0.0	52.2	0.0	52.2	0.0	52.2	0.0	52.2	0.0	58.1	0.0	
Sub-total				235.0	69,560.0	87.0	25,752.0	87.0	25,752.0	87.0	25,752.0	87.0	25,752.0	96.9	28,672.5
6) Support															
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				8,358.9		2,681.3		2,067.6		2,004.9		1,949.8		2,483.5	
Total Cost															
- Including family labour				279,876.9		94,935.3		82,047.6		80,730.9		79,573.8		95,161.7	
- Excluding family labour				175,536.9		56,307.3		43,419.6		42,102.9		40,945.8		52,152.9	
C. Net Return															
- Including family labour				-279,876.9		191,064.7		117,952.4		53,269.1		-3,573.8		50,438.3	
- Excluding family labour				-175,536.9		229,692.7		156,580.4		91,897.1		35,054.2		93,447.1	

Source: Socio-economic and Planning Centre, DOA

For prices, those presented in attached Table 3.46C were referred.

Table A 3.21

Crop Budget per Hectare for Fruits under Present Condition (2/9)

(2) Pineapple												
	Unit	Unit Price (Rs)	Pineapple: 1st Year		Pineapple: 2nd Year		Pineapple: 3rd Year		Pineapple: 4th Year		Pineapple: 4-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income												
Yield	(fruit)	34.0	0.0	0.0	13,900.0	472,600.0	17,450.0	593,300.0	6,900.0	234,600.0	9,562.5	325,125.0
B. Production Cost												
1) Suckers	(kg)	24.3	12,500.0	303,750.0	0.0	0.0	0.0	0.0	0.0	0.0	3,125.0	75,937.5
2) Fertilizers												
- Urea	(kg)	26.0	325.0	8,450.0	292.5	7,605.0	292.5	7,605.0	292.5	7,605.0	300.6	7,816.3
- TSP	(kg)	26.0	162.5	4,225.0	146.3	3,802.5	146.3	3,802.5	146.3	3,802.5	150.3	3,908.1
- MOP	(kg)	26.0	487.5	12,675.0	438.8	11,407.5	438.8	11,407.5	438.8	11,407.5	450.9	11,724.4
- Compost	(ton)	2,000.0	10.0	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5,000.0
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				20,000.0		0.0		0.0		0.0		5,000.0
3) Agro-chemicals												
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0
- Hormone	(Rs)	3,800.0	1.0	3,800.0	1.0	3,800.0	1.0	3,800.0	1.0	3,800.0	1.0	3,800.0
Sub-total				14,440.0		14,440.0		14,440.0		14,440.0		14,440.0
4) Machinery												
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3,350.0
- Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0
- Transport produce per ton	(Rs)	380.0	0.0	0.0	13.9	5,282.0	17.5	6,631.0	6.9	2,622.0	9.6	3,633.8
Sub-total				25,200.0		17,082.0		18,431.0		14,422.0		18,783.8
5) Human labor												
- Hired	(prn/day)	740.0	59.5	44,030.0	21.7	16,058.0	21.7	16,058.0	21.7	16,058.0	31.2	23,051.0
- Family	(prn/day)	0.0	90.3	0.0	33.6	0.0	33.6	0.0	33.6	0.0	47.8	0.0
Sub-total			149.8	44,030.0	55.3	16,058.0	55.3	16,058.0	55.3	16,058.0	78.9	23,051.0
6) Support												
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)				20,371.0		2,379.0		2,446.5		2,246.0		6,860.6
Total Cost												
- Including family labour				494,613.0		74,823.0		76,239.5		72,030.0		179,426.4
- Excluding family labour				427,791.0		49,959.0		51,375.5		47,166.0		144,072.9
C. Net Return												
- Including family labour				-494,613.0		397,777.0		517,060.6		162,570.0		145,698.6
- Excluding family labour				-427,791.0		422,641.0		541,924.6		187,434.0		181,052.1

Source: Socio-economic and Planning Centre, DOA

For prices, those presented in attached Table 3.46C were referred.

Table A 3.21 Crop Budget per Hectare for Fruits under Present Condition (3/9)

(3) Papaw												
	Unit	Unit Price (Rs)	Papaw: 1st Year		Papaw: 2nd Year		Papaw: 3rd Year		Papaw: 4th Year		Papaw: 4-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income												
Yield	(fruit)	33.2	0.0	0.0	7,700.0	255,640.0	8,600.0	285,520.0	7,600.0	252,320.0	5,975.0	198,370.0
B. Production Cost												
1) Seedlings	(kg)	36.5	1,125.0	41,062.5	0.0	0.0	0.0	0.0	0.0	0.0	281.3	10,265.6
2) Fertilizers												
- Urea	(kg)	26.0	427.0	11,102.0	0.0	0.0	0.0	0.0	0.0	0.0	106.8	2,775.5
- TSP	(kg)	26.0	247.0	6,422.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8	1,605.5
- MOP	(kg)	26.0	900.0	23,400.0	0.0	0.0	0.0	0.0	0.0	0.0	225.0	5,850.0
- Compost	(ton)	2,000.0	10.0	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5,000.0
- Others	(LS)	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				60,924.0		0.0		0.0		0.0		15,231.0
3) Agro-chemicals												
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2,660.0
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				10,640.0		0.0		0.0		0.0		2,660.0
4) Machinery												
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3,350.0
- Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0
- Transport produce per ton	(Rs)	380.0	0.0	0.0	7.7	2,926.0	8.6	3,268.0	7.6	2,888.0	6.0	2,270.5
Sub-total				25,200.0		14,726.0		15,068.0		14,688.0		17,420.5
5) Human labor												
- Hired	(prn/day)	740.0	85.0	62,900.0	31.0	22,940.0	31.0	22,940.0	31.0	22,940.0	44.5	32,930.0
- Family	(prn/day)	0.0	129.0	0.0	48.0	0.0	48.0	0.0	48.0	0.0	68.3	0.0
Sub-total			214.0	62,900.0	79.0	22,940.0	79.0	22,940.0	79.0	22,940.0	112.8	32,930.0
6) Support												
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)				10,036.3		1,883.3		1,900.4		1,881.4		3,925.4
Total Cost												
- Including family labour				306,222.8		75,069.3		75,428.4		75,029.4		132,937.5
- Excluding family labour				210,762.8		39,549.3		39,908.4		39,509.4		82,432.5
C. Net Return												
- Including family labour				-306,222.8		180,570.7		210,091.6		177,290.6		65,432.5
- Excluding family labour				-210,762.8		216,090.7		245,611.6		212,810.6		115,937.5
Source: Socio-economic and Planning Centre, DOA												
For prices, those presented in attached Table 3.46C were referred.												

Table A 3.21 Crop Budget per Hectare for Fruits under Present Condition (4/9)

(4) Passion fruit															
	Unit	Unit Price (Rs)	Passion fruit: 1st Year		Passion fruit: 2nd Year		Passion fruit: 3rd Year		Passion fruit: 4th Year		Passion fruit: 5th Year		Passion fruit: 5-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income															
Yield	(kg)	51.3	0.0	0.0	9,050.0	464,265.0	9,650.0	495,045.0	7,240.0	371,412.0	4,820.0	247,266.0	6,152.0	315,597.6	
B. Production Cost															
1) Seedling	(kg)	15.0	1,125.0	16,875.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.0	3,375.0	
2) Fertilizers															
- Urea	(kg)	26.0	133.0	3,458.0	133.0	3,458.0	201.0	5,226.0	271.0	7,046.0	204.0	5,304.0	188.4	4,898.4	
- TSP	(kg)	26.0	238.0	6,188.0	238.0	6,188.0	358.0	9,308.0	483.0	12,558.0	364.0	9,464.0	336.2	8,741.2	
- MOP	(kg)	26.0	119.0	3,094.0	119.0	3,094.0	179.0	4,654.0	242.0	6,292.0	182.0	4,732.0	168.2	4,373.2	
- Compost	(ton)	2,000.0	10.0	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4,000.0	
- Others	(LS)	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	
Sub-total				32,740.0		12,740.0		19,188.0		25,896.0		19,500.0		22,012.8	
3) Agro-chemicals															
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0	
4) Machinery															
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2,680.0	
- Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	
- Transport produce per ton	(Rs)	380.0	0.0	0.0	9.1	3,439.0	9.7	3,667.0	7.2	2,751.2	4.8	1,831.6	6.2	2,337.8	
Sub-total				25,200.0		15,239.0		15,467.0		14,551.2		13,631.6		16,817.8	
5) Human labor															
- Hired	(prn/day)	740.0	118.0	87,320.0	80.0	59,200.0	87.0	64,380.0	80.0	59,200.0	67.0	49,580.0	86.4	63,936.0	
- Family	(prn/day)	0.0	185.0	0.0	125.0	0.0	136.0	0.0	125.0	0.0	105.0	0.0	135.2	0.0	
Sub-total				303.0	87,320.0	205.0	59,200.0	223.0	64,380.0	205.0	59,200.0	172.0	49,580.0	221.6	63,936.0
6) Support															
- Poles and wires	(Rs)	70,200.0	1.0	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	14,040.0	
7) Miscellaneous (5%)				12,148.8		4,891.0		5,483.8		5,514.4		4,667.6		6,541.1	
Total Cost															
- Including family labour				392,023.8		195,210.0		215,798.8		208,301.6		175,719.2		237,410.6	
- Excluding family labour				255,123.8		102,710.0		115,158.8		115,801.6		98,019.2		137,362.6	
C. Net Return															
- Including family labour				-392,023.8		269,055.1		279,246.3		163,110.4		71,546.8		78,187.0	
- Excluding family labour				-255,123.8		361,555.1		379,886.3		255,610.4		149,246.8		178,235.0	

Source: Socio-economic and Planning Centre, DOA

For prices, those presented in attached Table 3.46C were referred.

Table A 3.21

Crop Budget per Hectare for Fruits under Present Condition (5/9)

(5) Mango	Unit	Unit Price (Rs)	Mango: 1st Year		Mango: 2nd Year		Mango: 3rd Year		Mango: 4th Year		Mango: 5th Year		Mango: 6th Year		Mango: 7-20th Yr Ave.		Mango: 20-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income																		
Yield	(kg)	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,400.0	81,480.0	4,000.0	232,800.0	9,800.0	570,360.0	7,130.0	414,966.0
B. Production Cost																		
1) Seedling	(kg)	121.6	105.0	12,768.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	638.4
2) Fertilizers																		
- Urea	(kg)	26.0	18.0	468.0	27.0	702.0	36.0	936.0	36.0	936.0	45.0	1,170.0	58.0	1,508.0	89.0	2,314.0	73.3	1,905.8
- TSP	(kg)	26.0	22.0	572.0	33.0	858.0	44.0	1,144.0	44.0	1,144.0	55.0	1,430.0	70.0	1,820.0	108.0	2,808.0	89.0	2,314.0
- MOP	(kg)	26.0	10.0	260.0	15.0	390.0	20.0	520.0	20.0	520.0	25.0	650.0	32.0	832.0	49.0	1,274.0	40.4	1,050.4
- Compost	(ton)	2,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				21,300.0		21,950.0		22,600.0		22,600.0		23,250.0		24,160.0		26,396.0		25,270.2
3) Agro-chemicals																		
- Herbicide	(Rs)	12,150.0	1.0	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	607.5
- Pesticide	(Rs)	10,640.0	0.0	0.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,108.0
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				12,150.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,715.5
4) Machinery																		
Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	670.0
Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0
Transport produce per ton	(Rs)	380.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	532.0	4.0	1,520.0	9.8	3,724.0	7.1	2,709.4
Sub-total				25,200.0		11,800.0		11,800.0		11,800.0		12,332.0		13,320.0		15,524.0		15,179.4
5) Human labor																		
- Hired	(prn/dav)	740.0	47.0	34,780.0	37.0	27,380.0	38.0	28,120.0	46.0	34,040.0	51.0	37,740.0	43.0	31,820.0	44.0	32,560.0	43.9	32,486.0
- Family	(prn/dav)	0.0	73.0	0.0	57.0	0.0	59.0	0.0	73.0	0.0	80.0	0.0	68.0	0.0	69.0	0.0	68.8	0.0
Sub-total			120.0	34,780.0	94.0	27,380.0	97.0	28,120.0	119.0	34,040.0	131.0	37,740.0	111.0	31,820.0	113.0	32,560.0	112.7	32,486.0
6) Support																		
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)																		
				5,309.9		3,588.5		3,658.0		3,954.0		4,198.1		3,997.0		4,256.0		4,214.5
Total Cost																		
- Including family labour				165,527.9		117,538.5		120,478.0		137,054.0		147,360.1		134,257.0		140,436.0		139,416.0
- Excluding family labour				111,507.9		75,358.5		76,818.0		83,034.0		88,160.1		83,937.0		89,376.0		88,504.0
C. Net Return																		
- Including family labour				-165,527.9		-117,538.5		-120,478.0		-137,054.0		-65,880.1		-98,543.0		-429,924.0		-275,550.0
- Excluding family labour				-111,507.9		-75,358.5		-76,818.0		-83,034.0		-6,680.1		-148,863.0		-480,984.0		-326,462.0
Source: Socio-economic and Planning Centre, DOA																		
For prices, those presented in attached Table 3.46C were referred.																		

Table A 3.21

Crop Budget per Hectare for Fruits under Present Condition (6/9)

(6) Orange																			
	Unit	Unit Price (Rs)	Orange: 1st Year		Orange: 2nd Year		Orange: 3rd Year		Orange: 4th Year		Orange: 5th Year		Orange: 6-8th Yr Ave.		Orange: 9-15th Yr Ave.		Orange: 15-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(fruit)	76.8	0.0	0.0	0.0	0.0	0.0	0.0	1,300.0	99,840.0	3,070.0	235,776.0	10,150.0	779,520.0	10,150.0	779,520.0	6,381.3	490,086.4	
B. Production Cost																			
1) Seedlings	(kg)	121.6	562.0	68,339.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	4,555.9
2) Fertilizers																			
- Urea	(kg)	26.0	48.0	1,248.0	66.0	1,716.0	59.0	1,534.0	96.0	2,496.0	128.0	3,328.0	137.0	3,562.0	137.0	3,562.0	108.7	2,825.3	
- TSP	(kg)	26.0	75.0	1,950.0	82.0	2,132.0	73.0	1,898.0	120.0	3,120.0	159.0	4,134.0	170.0	4,420.0	170.0	4,420.0	135.9	3,534.3	
- MOP	(kg)	26.0	51.0	1,326.0	37.0	962.0	33.0	858.0	55.0	1,430.0	72.0	1,872.0	78.0	2,028.0	78.0	2,028.0	63.3	1,646.7	
- Compost	(ton)	2,000.0	5.6	11,240.0	6.0	12,000.0	6.0	12,000.0	6.0	12,000.0	6.0	12,000.0	6.0	12,000.0	6.0	12,000.0	5.6	11,149.3	
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				15,764.0		16,810.0		16,290.0		19,046.0		21,334.0		22,010.0		22,010.0		19,155.6	
3) Agro-chemicals																			
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	0.9	9,930.7	
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		9,930.7	
4) Machinery																			
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	893.3
- Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,013.3	
- Transport produce per ton	(Rs)	380.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	494.0	3.1	1,166.6	10.2	3,857.0	10.2	3,857.0	6.4	2,424.9	
Sub-total				25,200.0		11,800.0		11,800.0		12,294.0		12,966.6		15,657.0		15,657.0		14,331.6	
5) Human labor																			
- Hired	(prn/dav)	740.0	59.0	43,660.0	34.0	25,160.0	34.0	25,160.0	38.0	28,120.0	38.0	28,120.0	39.0	28,860.0	44.0	32,560.0	38.9	28,810.7	
- Family	(prn/dav)	0.0	91.0	0.0	52.0	0.0	52.0	0.0	58.0	0.0	58.0	0.0	60.0	0.0	67.0	0.0	59.5	0.0	
Sub-total			150.0	43,660.0	86.0	25,160.0	86.0	25,160.0	96.0	28,120.0	96.0	28,120.0	99.0	28,860.0	111.0	32,560.0	98.5	28,810.7	
6) Support																			
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				8,180.2		3,220.5		3,194.5		3,505.0		3,653.0		3,858.4		4,043.4		3,839.2	
Total Cost																			
- Including family labour				239,123.4		106,110.5		105,564.5		116,525.0		119,633.6		125,425.4		134,490.4		124,678.3	
- Excluding family labour				171,783.4		67,630.5		67,084.5		73,605.0		76,713.6		81,025.4		84,910.4		80,623.7	
C. Net Return																			
- Including family labour				-239,123.4		-106,110.5		-105,564.5		-16,685.0		-116,142.4		-654,094.7		-645,029.7		-365,408.1	
- Excluding family labour				-171,783.4		-67,630.5		-67,084.5		-26,235.0		-159,062.4		-698,494.7		-694,609.7		-409,462.7	
Source: Socio-economic and Planning Centre, DOA																			
For prices, those presented in attached Table 3.46C were referred.																			

Table A 3.21

Crop Budget per Hectare for Fruits under Present Condition (7/9)

(7) Lime	Unit	Unit Price (Rs)	Lime: 1st Year		Lime: 2nd Year		Lime: 3rd Year		Lime: 4th Year		Lime: 5th Year		Lime: 6th Year		Lime: 7-15th Year Average		Lime: 15-year Average	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income																		
Yield	(kg)	60.0	0.0	0.0	0.0	0.0	3,400.0	204,000.0	5,100.0	306,000.0	7,800.0	468,000.0	12,500.0	750,000.0	21,800.0	1,308,000.0	15,000.0	900,000.0
B. Production Cost																		
1) Seedling	(kg)	182.3	700.0	127,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	8,507.3
2) Fertilizers																		
- Urea	(kg)	26.0	52.0	1,352.0	103.0	2,678.0	156.0	4,056.0	230.0	5,980.0	309.0	8,034.0	182.0	4,732.0	254.0	6,604.0	221.2	5,751.2
- TSP	(kg)	26.0	57.0	1,482.0	114.0	2,964.0	170.0	4,420.0	208.0	5,408.0	243.0	6,318.0	200.0	5,200.0	240.0	6,240.0	210.1	5,463.5
- MOP	(kg)	26.0	15.0	390.0	30.0	780.0	46.0	1,196.0	54.0	1,404.0	65.0	1,690.0	53.0	1,378.0	64.0	1,664.0	55.9	1,454.3
- Compost	(ton)	2,000.0	11.0	22,000.0	11.0	22,000.0	11.0	22,000.0	11.0	22,000.0	11.0	22,000.0	11.0	22,000.0	11.0	22,000.0	11.0	22,000.0
- Others	(LS)	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				25,224.0		28,422.0		31,672.0		34,792.0		38,042.0		33,310.0		36,508.0		34,668.9
3) Agro-chemicals																		
- Herbicide	(Rs)	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0
4) Machinery																		
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	893.3
- Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0
- Transport produce per ton	(Rs)	380.0	0.0	0.0	0.0	0.0	3.4	1,292.0	5.1	1,938.0	7.8	2,964.0	12.5	4,750.0	21.8	8,284.0	15.0	5,700.0
Sub-total				25,200.0		11,800.0		13,092.0		13,738.0		14,764.0		16,550.0		20,084.0		18,393.3
5) Human labor																		
- Hired	(prn/day)	740.0	60.0	44,400.0	39.0	28,860.0	48.0	35,520.0	43.0	31,820.0	39.0	28,860.0	43.0	31,820.0	43.0	31,820.0	43.9	32,510.7
- Family	(prn/day)	0.0	94.0	0.0	60.0	0.0	76.0	0.0	68.0	0.0	60.0	0.0	68.0	0.0	68.0	0.0	69.2	0.0
Sub-total			154.0	44,400.0	99.0	28,860.0	124.0	35,520.0	111.0	31,820.0	99.0	28,860.0	111.0	31,820.0	111.0	31,820.0	113.1	32,510.7
6) Support																		
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6) Miscellaneous (5%)				12,261.2		4,593.6		5,153.7		5,157.0		5,222.8		5,223.5		5,560.1		5,843.5
Total Cost																		
- Including family labour				327,045.2		140,865.6		164,467.7		158,617.0		154,078.8		160,013.5		167,082.1		173,921.8
- Excluding family labour				257,485.2		96,465.6		108,227.7		108,297.0		109,678.8		109,693.5		116,762.1		122,713.8
C. Net Return																		
- Including family labour				-327,045.2		-140,865.6		39,532.3		147,383.0		313,921.2		589,986.5		1,140,917.9		726,078.2
- Excluding family labour				-257,485.2		-96,465.6		95,772.3		197,703.0		358,321.2		640,306.5		1,191,237.9		777,286.2
Source: Socio-economic and Planning Centre, DOA																		
For prices, those presented in attached Table 3.46C were referred.																		

Table A 3.21

Crop Budget per Hectare for Fruits under Present Condition (8/9)

(8) Ponegranate	Unit	Unit Price (Rs)	Ponegranate: 1st Year		Ponegranate: 2nd Year		Ponegranate: 3rd Year		Ponegranate: 4th Year		Ponegranate: 5th Year		Ponegranate: 6th Year		Ponegranate: 7-20th Yr Ave.		Ponegranate: 20-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
			A. Gross Income																
Yield	(fruit)	48.6	0.0	0.0	0.0	0.0	0.0	0.0	2,000.0	97,200.0	4,200.0	204,120.0	6,000.0	291,600.0	7,700.0	374,220.0	6,000.0	291,600.0	
B. Production Cost																			
1) Seedlings	(kg)	30.4	1,100.0	33,440.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	1,672.0
2) Fertilizers																			
- Urea	(kg)	26.0	52.0	1,352.0	52.0	1,352.0	0.0	0.0	52.0	1,352.0	78.0	2,028.0	78.0	2,028.0	78.0	2,028.0	70.2	1,825.2	
- TSP	(kg)	26.0	57.0	1,482.0	57.0	1,482.0	0.0	0.0	57.0	1,482.0	85.5	2,223.0	85.5	2,223.0	85.5	2,223.0	77.0	2,000.7	
- MOP	(kg)	26.0	15.0	390.0	15.0	390.0	0.0	0.0	15.0	390.0	22.5	585.0	22.5	585.0	22.5	585.0	20.3	526.5	
- Compost	(ton)	2,000.0	10.0	20,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1,000.0	
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				23,224.0		3,224.0		0.0		3,224.0		4,836.0		4,836.0		4,836.0		5,352.4	
3) Agro-chemicals																			
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	532.0	
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				10,640.0		0.0		0.0		0.0		0.0		0.0		0.0		532.0	
4) Machinery																			
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	670.0	
- Irrigation by pump	(Rs)	23,600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Transport produce per ton	(Rs)	380.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	760.0	4.2	1,596.0	6.0	2,280.0	7.7	2,926.0	6.0	2,280.0	
Sub-total				13,400.0		0.0		0.0		760.0		1,596.0		2,280.0		2,926.0		2,950.0	
5) Human labor																			
- Hired	(prn/day)	740.0	89.6	66,304.0	41.4	30,636.0	39.6	29,304.0	40.8	30,192.0	51.0	37,740.0	57.0	42,180.0	60.6	44,844.0	58.4	43,208.6	
- Family	(prn/day)	0.0	139.2	0.0	48.6	0.0	61.8	0.0	63.6	0.0	80.4	0.0	89.4	0.0	95.4	0.0	90.9	0.0	
Sub-total			228.8	66,304.0	90.0	30,636.0	101.4	29,304.0	104.4	30,192.0	131.4	37,740.0	146.4	42,180.0	156.0	44,844.0	149.3	43,208.6	
6) Support																			
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6) Miscellaneous (5%)				7,350.4		1,693.0		1,465.2		1,708.8		2,208.6		2,464.8		2,630.3		2,685.8	
Total Cost																			
- Including family labour				257,366.4		71,517.0		76,501.2		82,948.8		105,876.6		117,916.8		125,832.3		123,689.0	
- Excluding family labour				154,358.4		35,553.0		30,769.2		35,884.8		46,380.6		51,760.8		55,236.3		56,400.8	
C. Net Return																			
- Including family labour				-257,366.4		-71,517.0		-76,501.2		-14,251.2		-98,243.4		-173,683.2		-248,387.7		-167,911.1	
- Excluding family labour				-154,358.4		-35,553.0		-30,769.2		-61,315.2		-157,739.4		-239,839.2		-318,983.7		-235,199.3	
Source: Socio-economic and Planning Centre, DOA																			
For prices, those presented in attached Table 3.46C were referred.																			

Table A 3.21 Crop Budget per Hectare for Fruits under Present Condition (9/9)

(9) Guava																		
	Unit	Unit Price (Rs)	Guava: 1st Year		Guava: 2nd Year		Guava: 3rd Year		Guava: 4th Year		Guava: 5th Year		Guava: 6th Year		Guava: 7-20th Yr Ave.		Guava: 20-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income																		
Yield	(kg)	66.4	0.0	0.0	0.0	0.0	1,600.0	106,240.0	4,200.0	278,880.0	7,200.0	478,080.0	7,200.0	478,080.0	7,200.0	478,080.0	6,050.0	401,720.0
B. Production Cost																		
1) Seedling	(kg)	18.2	400.0	7,280.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	1,820.0	0.0	0.0	25.0	455.0	42.5	773.5
2) Fertilizers																		
- Urea	(kg)	26.0	33.0	858.0	65.0	1,690.0	130.0	3,380.0	175.0	4,550.0	223.0	5,798.0	223.0	5,798.0	223.0	5,798.0	198.6	5,162.3
- TSP	(kg)	26.0	61.0	1,586.0	122.0	3,172.0	245.0	6,370.0	329.0	8,554.0	417.0	10,842.0	417.0	10,842.0	417.0	10,842.0	371.5	9,657.7
- MOP	(kg)	26.0	30.0	780.0	60.0	1,560.0	120.0	3,120.0	160.0	4,160.0	204.0	5,304.0	204.0	5,304.0	204.0	5,304.0	181.7	4,724.2
- Compost	(ton)	2,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0	10.0	20,000.0
- Others	(LS)	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				23,224.0		26,422.0		32,870.0		37,264.0		41,944.0		41,944.0		41,944.0		39,544.2
3) Agro-chemicals																		
- Herbicide	(Rs)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Pesticide	(Rs)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0
- Hormone	(Rs)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0
4) Machinery																		
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	670.0
- Irrigation by pump	(Rs)	23,600.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0	0.5	11,800.0
- Transport produce per ton	(Rs)	380.0	0.0	0.0	0.0	0.0	1.6	608.0	4.2	1,596.0	7.2	2,736.0	7.2	2,736.0	7.2	2,736.0	6.1	2,299.0
Sub-total				25,200.0		11,800.0		12,408.0		13,396.0		14,536.0		14,536.0		14,536.0		14,769.0
5) Human labor																		
- Hired	(prn/day)	740.0	66.0	48,840.0	39.0	28,860.0	48.0	35,520.0	53.0	39,220.0	53.0	39,220.0	43.0	31,820.0	43.0	31,820.0	45.2	33,448.0
- Family	(prn/day)	0.0	102.0	0.0	60.0	0.0	76.0	0.0	83.0	0.0	83.0	0.0	68.0	0.0	68.0	0.0	71.2	0.0
Sub-total			168.0	48,840.0	99.0	28,860.0	124.0	35,520.0	136.0	39,220.0	131.8	39,220.0	111.0	31,820.0	125.7	31,820.0	126.5	33,448.0
6) Support																		
- Poles and wires	(Rs)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6) Miscellaneous (5%)				5,759.2		3,886.1		4,571.9		5,026.0		5,408.0		4,947.0		4,969.8		4,958.7
Total Cost																		
- Including family labour				196,423.2		126,008.1		152,249.9		166,966.0		174,988.0		154,207.0		154,684.8		156,821.4
- Excluding family labour				120,943.2		81,608.1		96,009.9		105,546.0		113,568.0		103,887.0		104,364.8		104,133.4
C. Net Return																		
- Including family labour				-196,423.2		-126,008.1		-46,009.9		111,914.0		303,092.0		323,873.0		323,395.3		244,898.6
- Excluding family labour				-120,943.2		-81,608.1		10,230.1		173,334.0		364,512.0		374,193.0		373,715.3		297,586.6

Source: Socio-economic and Planning Centre, DOA

For prices, those presented in attached Table 3.46C were referred.

Table A 3.22 2012 Farmgate Prices of Farm Products and Inputs

Item	Unit	Financial (Rs.)	Item	Unit	Financial (Rs.)
Products			Fertilizers		
- Paddy	kg	28.0	Fertilizer for paddy		
- Maize	kg	29.0	- Urea	kg	7.0
- Krakkkan	kg	60.0	- TSP	kg	7.0
- Green gram	kg	170.0	- MOP	kg	7.0
- Black gram	kg	160.0	- TDM	kg	26.0
- Cowpea	kg	135.0	- Mixture	kg	-
- Gingelly	kg	120.0	- Poultry manure	kg	-
- Soybean	kg	45.0	- Others	kg	-
- Groundnut	kg	99.0	Fertilizer for other crops		
- Red onion	kg	87.0	- Urea	kg	26.0
- Big onion	kg	67.0	- TSP	kg	26.0
- Chillies	kg	100.0	- MOP	kg	26.0
- Pumpkin	kg	20.0	- TDM	kg	26.0
- Brinjal	kg	38.5	- Mixture	kg	26.0
- Bitter gourd	kg	51.0	- Poultry manure	ton	20,000.0
- Capsicum	kg	90.5	- Compost fertilizer	ton	20,000.0
- Tomato	kg	48.5	- Others*	ha	22,000.0
- Banana	kg	20.0	Agro-chemicals		
- Pineapple	fruit	42.5	Herbicide		
- Pineapple	kg	34.0	- Paddy	ha	8,150.0
- Papaw	fruit	21.6	- OFC (excluding onions and chillies)	ha	4,600.0
- Papaw	kg	33.2	- Vegetables (including onions and chillies)	ha	5,910.0
- Passion fruit	kg	51.3	- Fruits	ha	12,150.0
- Mango	kg	58.2	Pesticide		
- Orange	fruit	9.6	- Paddy	ha	4,210.0
- Orange	kg	76.8	- OFC (excluding onions and chillies)	ha	4,190.0
- Lime	kg	60.0	- Vegetables (including onions and chillies)	ha	34,550.0
- Pomegranate	kg	48.6	- Fruits	ha	10,640.0
- Guava	kg	66.4	- Hormone for pineapple	ha	3,800.0
Seeds, suckers and seedlings			Farm Machinery		
- Paddy	kg	64.0	- Land preparation	ha	13,400.0
- Maize	kg	661.0	- Irrigation by pump	ha	23,600.0
- Krakkkan	kg	66.0	- Threshing and winnowing	ton	2,450.0
- Green gram	kg	263.0	- Transport of produce	ton	380.0
- Black gram	kg	178.0	Labour		
- Cowpea	kg	154.0	- Hired labour	prn-day	740.0
- Gingelly	kg	183.0	- Family labour	prn-day	0.0
- Soybean	kg	135.0	Others		
- Groundnut	kg	111.0	- Support for tomato	ha	44,900.0
- Red onion	kg	112.0	- Support for passion fruit	ha	70,200.0
- Big onion	kg	4,201.0			
- Chillies	kg	1,976.0			
- Pumpkin	kg	19,090.0			
- Brinjal	kg	10,092.0			
- Bitter gourd	kg	5,750.0			
- Capsicum	kg	11,109.0			
- Tomato	kg	29,568.0			
- Banana	No.	24.3			
- Pineapple	No.	6.0			
- Papaw	No.	36.5			
- Passion fruit	No.	18.2			
- Mango	No.	121.6			
- Orange	No.	121.6			
- Lime	No.	182.3			
- Pomegranate	No.	30.4			
- Guava	No.	18.2			
Note:					
*: Amonia, CU3 and Hydro are applied to some vegetables.					
Source:					
- Cost of Cultivation of Agricultural Crops, 2009/10 Maha, Socio-economic and Planning Centre, DOA					
- Cost of Cultivation of Agricultural Crops, 2010 Yala, Socio-economic and Planning Centre, DOA					
- Cost and benefit analysis tables for fruits prepared by DOA					
- The unit prices available in the above data sources were converted into 2012 prices by applying increase rate of 5% p.a. which was estimated based on CCPI and information obtained through field survey in the present Survey.					

Table A 3.23 Number of Vaccination

Vaccination 2008-2011

HS	2008	2009	2010	2011	FMD	2008	2009	2010	2011
NWP	244270	93990	0	209280	NWP	123350	98250	146700	150050
EP	266160	150230	13090	110	EP	42000	120300	65000	134350
NCP	129450	1020		171570	NCP	101200	38000	85000	120000
NP	139790	89890	24750	213110	NP	65000	49850	41000	141450
SP	83330	70560		46750	SP	24850	32850	17600	71000
UP	72240	40080		62170	UP	69500	40000	62000	61800
WP	45040	44280		68600	WP	54250	68400	46350	18650
CP	22570	15760		17600	CP	1550	0	29350	25100
Sab.P	15840	14120		10080	Sab.P	16400	13100	13550	13350
Others		4330			Others		4800		
Total	1018690	524260	37840	799270	Total	498100	455550	506550	735750
Vac.	834864	408473	37500	558319	Vac.	523733	342474	453305	529080
Local	82%	78%	99%	70%	Local	105%	75%	89%	72%

BQ	2008	2009	2010	2011
NWP	83523	75273	78210	78441
EP	23232	24189	15312	43527
NCP	34848	30723	30591	31053
NP	19074	8448	20592	33101
SP	0	0	0	0
UP	35112	6534	13662	5016
WP	0	0	0	12012
CP	33	0	0	528
Sab.P	0	0	1023	
Others		0		
Total	195822	145167	159390	203678
Vac.	147396	114526	119005	156265
Local	75%	79%	75%	77%

HS: Haemorrhagic Septicemia

FMD: Foot and Mouth Disease

BQ: Black Quarter

1. Province decides the number
2. Province asks vaccine production
3. The vaccine production center accumulates total demands
4. The center distributes vaccine to each provinces
5. Each province executes vaccination according to availabilities
6. Provinces inform the number

Table A 3.24 Summary of CBOs in Rural Communities (1/4)

CBO	Legal Basis (Act/Circulars)	Member Size	In-Charge Department	Monitoring (who / how)	Major Functions	Remarks
Farmers Organization (FO)	Agrarian Development Act, No. 46 of 2000	minimum - 25, maximum - no limit	Department of Agrarian Development	Agriculture Instructor (AI) under Duputy Director of Agriculture (DDA) Agrarian Development Officer (ADO) under Agrarian Servie Center (ASC)	<ul style="list-style-type: none"> - Formulate annual programe for cultivating paddy lands and high lands - Collecting information and making reports regarding agricultural lands within its area authority - Collect data regarding agricultural lands, agricultural machinery and agricultural animals and inland fish in its area authority - Recommend the cultivation of agricultural crops which are recommended for that area, and the breeding of such breeds of livestock and inland fish as are best suited for that area - Take measures to ensure that such crops and animals are free from diseases and pests - Implement programmes to educate owner cultivators, occupies and encouraging them to adopt methods which are environmentally friendly - Engage in the supply of goods and services relating to agriculture - It can sign an agreement and implement small scale irrigation and other construction works - Improve coordination among members and support to Improve their living standard 	FOs rules and regulations and activities are mostly common for all the districts in the country.
Farmers Producers Society (FPS)	Circular issued by the Department of Agriculture Peradeniya.	minimum - 10 maximum - 20	Department of Agriculture (provincial)	Agriculture Instructor (AI) under Duputy Director of Agriculture (DDA)	<ul style="list-style-type: none"> - Improve agricultural production through joint venture and make demonstration to increase output - Motivate members to follow the recommended methods in the agricultural activities - Guide the members to reduce the production cost and increase profit - Provide facilities to the members to get agricultural inputs easily and support them to increase products - Motivate members to improve own investment and make them free from credits and advice them for without dependency - Educate the members to the important of the saving and motivate them - Assist the members to get benefits from donors who are supporting to the agricultural activities - Guide the members to earn additional income from other sources also 	FPSs are not common for all provinces mostly these are functioning in Eastern Province and a part of Northern Province.

Table A 3.24 Summary of CBOs in Rural Communities (2/4)

CBO	Legal Basis (Act /Circulars)	Member Size	In-Charge Department	Monitoring (who / how)	Major Functions	Remarks
Young Farmers Society (YFS)	Circular issued by the Department of Agriculture Peradeniya.	minimum- 10 maximum- 30	Department of Agriculture (provincial)	Agriculture Instructor (AI) under Duputy Director of Agriculture (DDA)	<ul style="list-style-type: none"> - Encourage youths to engage in agricultural activities with new technologies through that reduce unemployment in the country - Introduce new agricultural technologies among youth farmers who are already Engage with the agricultural activities - Make arrangements to get agricultural tools and equipments and make marketing opportunities through the societies - Build unity, coordination, cooperation, leadership and characteristic of humanity among youths 	YFSs are not common for all provinces mostly these are functioning in the Eastern Province.
Women Farmers Society (WFS)	Circular issued by the Department of Agriculture Peradeniya.	minimum - 10 maximum - no mention	Department of Agriculture (provincial)	Agriculture Instructor (AI) under Duputy Director of Agriculture (DDA)	<ul style="list-style-type: none"> - Educate the members regarding agricultural activities and Encourage earnings through it. and develop the practical knowledge to all members - Attention to the members to make interest of agriculture and agricultural related production and make arrangement to Improve the economical status of the members. - Give the basic knowledge for the new agricultural technologies, knowledge of nutritional foods, customer rights and food processing - Guide the members regarding agriculture based friendly environment, protection of environment and get nutritional foods through home gardening - Encourage women participation in the development process, Improve leadership among women and motivate them for social service activities - Change the attitudes, Improve relationship, coordination and unity among members - Improve saving habits and prepare them for agricultural investments 	WFSs are not common for all provinces mostly these are functioning in Eastern Province. In the Northern Province only 27 WFSs are functioning in Vavuniya District.

Table A 3.24 Summary of CBOs in Rural Communities (3/4)

CBO	Legal Basis (Act/Circulars)	Member Size	In-Charge Department	Monitoring (who / how)	Major Functions	Remarks
Rural Development Society	Circular No. A/C/3/1/1 18.09.1978 Amended on 31.10.1978	Not mentioned in the circular	Rural Development Department (provincial)	Rural Development Officer (RDO) under Provisional Director of Rural Developemnt	<ul style="list-style-type: none"> - Plan its work activities to create self employment opportunities from available resources in its locality - Maintain good health conditions and habits of the people and to take preventive measures against the spread of any infectious disease - Work for improving the pre -school education of the children in the village - Take steps to protect and improve the environmental condition of the area - Take action to develop their village in all aspects 	This is common for all districts in the country.
Women Rural Development Society	Circular No. A/C/3/1/1 18.09.1978 Amended on 31.10.1978	Not mentioned in the circular	Rural Development Department (provincial)	Rural Development Officer (RDO) under Provisional Director of Rural Developemnt	<ul style="list-style-type: none"> - Plan its work activities to create self employment opportunities from available resources in its locality - Maintain good health conditions and habits of the people and to take preventive measures against the spread of any infectious disease - Work for improving the pre -school education of the children in the village - Take steps to protect and Improve the environment of the area. - Help women in acquiring knowledge of vocational training, marketing and allied women development activities 	This is common for all districts in the country.
Samurthi task force	Circular produced by the Sri Lanka Samurthi Authority	All the Samurthi beneficiaries in the village are the members of the society.	Sri Lanka Samurthi Authority	Samurthi Development Officer (SDO) under Samurthi Manager attached to Divisional Secretary (DS)	<ul style="list-style-type: none"> - Implement all development activities requested by Samurthi Authority through Divisional Secretary office in the village Level - Celebrate national and cultural events 	Samurthi task forces are in all samurthi beneficiary villages in the country, and all the rules and regulations and activities are common for all.

Table A 3.24 Summary of CBOs in Rural Communities (4/4)

CBO	Legal Basis (Act/Circulars)	Member Size	In-Charge Department	Monitoring (who / how)	Major Functions	Remarks
Death donation society	Villagers form this societies themselves as a welfare society	No restrictions	N/A	N/A	- Collect membership money - Serve as a welfare society - Provide money to the funeral expenses to the members	This society is not common for all areas. Normally it is in practice in village areas in the country.
Rural Cooperative society	Co-operative Societies Act No. 5 of 1972 Amended Act No. 32 of 1983 Amended Act no. 11 of 1992	minimum - 10 maximum - no limit	Co-operative Department (provincial)	Co-operative Development Officer (CDO) under Assistant Co-operative Development Officer	- Serve the common needs of the people in the village - Provide services to the people who need the services of the co-operative movement - Play a significant role in development process	Co-operative societies are formed according to the co-operative act therefore basic rules and regulations are same in inland wide but objectives of the societies varies one from another. Ex: Fishermen co-operative society Agriculture producers co-operative society Carpenters co-operative society Dairy farmers co-operative society Consumer co-operative society

Table A 3.25 Northern Province Forest Conservation Areas within Project Areas

District	DS Division	Name of Area	Category	Extent (ha)	
Mannar	Manthai west	Ninthavil FR	FR	7,720.35	
		Sinnapandivirichchan	SF	259.00	
		Periyapandivirichchan	SF	4,856.30	
		Palampiddy	SF	4,573.00	
		Vellankulam	SF	6,977.30	
	Parappukadanthan	SF	4,977.70		
	Madhu	Madhu FR	PFR	8,261.23	
		Madhu PFR	FR	14,164.30	
Iranai Iuppaikulam		SF	7,228.50		
Mulathiv	Oddusuddan	Kulamurippu FR (B)	FR	1,783.80	
		Thanduwan FR	FR	791.10	
		Panikkankulam FR	FR	6,543.00	
		Chamanankulam FR	FR	3,281.60	
		Oddusuddan	FR	1,783.80	
		Manavalanpaddamurippu	SF	8,093.80	
		Kokkavil	SF	768.90	
		Ambakamam	SF	6,070.40	
		Thanduwan	SF	404.60	
		Koolamurippu	SF	4,451.50	
		Othiyamalai	SF	809.30	
		Thunukkai	Periyakulam	SF	404.60
			Akkarayan	FR	2,600.10
	Uyilankulam		SF	849.80	
	Thenniyankulam		SF	3,966.00	
	Maruthankulam		SF	2,104.40	
	Iyankankulam		SF	2,630.50	
	Puthuvedduvan		SF	4,046.90	
	Palaya Murukandy		SF	1,214.00	
	Koddaikaddiyakulam		SF	890.30	
	Ampalaperumalkulam		SF	1,052.20	
	Manthai East	Vannivilankulam	FR	2,023.40	
		Naddankandal	SF	809.30	
	Vavuniya	Vavuniya	Ramaikulam	FR	945.30
			Nelukulam	FR	2,197.90
			Maha Rambaikulam	FR	804.80
			Thonikkallu	FR	655.80
			Rajenthirankulam	FR	1,458.70
			Poovarsankulam	FR	4,379.30
			Nochchikulam	SF	242.90
Puthukulam			SF	202.40	
Poovarasankulam			SF	202.40	
Maruthankulam			SF	202.40	
Vavuniya South		Karunkalikulam	FR	8,023.80	
		Mamaduwa	FR	229.90	
		Vannivilankulam	FR	10,958.20	
		Paranthan	FR	2,897.90	
		Nainamadu	FR	9,785.00	
		Chamalankulam	FR	3,282.90	
		Madukanda	SF	404.80	
		Mahakachchakodiya	SF	3,238.80	
		Mamaduwa	SF	202.40	

FR: Forest Reserve, SF: State Forest, PFR: Proposed Forest Reserve
Source: Statistical Information, Northern Provincial Council (2011)

Table A 4.1 Result of Selection of Priority Site for Project Implementation (1/3)

No.	Province	District	DS Division	Result of Scoring							Total Score (100)
				Suitability of soil maximum point allocated (15)	Water Resources		Farmer's needs and ability maximum point allocated (30)	Market Advantage		Adequateness of Government Extension Services maximum point allocated (15)	
					Accessibility to ground water maximum point allocated (10)	Appropriateness of surface water maximum point allocated (10)		Accessibility to main road maximum point allocated (10)	Distance to Major Market maximum point allocated (10)		
1	Eastern	Ampara	Addalaichenai	12	8	0	0	2	2	6	30
2	Eastern	Ampara	Akkaraipattu	15	9	0	0	2	2	0	28
3	Eastern	Ampara	Alayadivembu	8	9	0	0	0	4	9	30
4	Eastern	Ampara	Ampara	12	10	2	0	2	2	0	28
5	Eastern	Ampara	Damana	13	10	2	0	4	4	0	33
6	Eastern	Ampara	Dehiyatakandiya	15	10	0	6	2	2	0	35
7	Eastern	Ampara	Irrakamam	11	10	2	0	2	2	15	42
8	Eastern	Ampara	Kalmunai (Muslim Div.)	15	0	0	0	4	2	15	36
9	Eastern	Ampara	Kalmunai (Tamil Div.)	15	0	0	0	8	2	15	40
10	Eastern	Ampara	Karaitivu	11	1	0	0	2	2	15	31
11	Eastern	Ampara	Lahugala	11	10	10	0	8	4	9	52
12	Eastern	Ampara	Mahaoya	13	10	0	30	4	4	0	61
13	Eastern	Ampara	Navethanveli	13	9	2	0	2	2	6	34
14	Eastern	Ampara	Nintavurpattu	5	5	0	0	0	2	9	21
15	Eastern	Ampara	Padiyatalawa	14	10	10	24	4	4	0	66
16	Eastern	Ampara	Pottuvil	11	10	6	0	2	4	15	48
17	Eastern	Ampara	Sainthamaruthu	14	1	0	0	2	2	15	34
18	Eastern	Ampara	Sammanthurai	5	10	0	0	0	2	0	17
19	Eastern	Ampara	Thirukovil	10	7	10	0	2	4	15	48
20	Eastern	Ampara	Uhana	14	10	0	6	2	2	0	34
21	Eastern	Batticaloa	Eravur Pattu (Chenkalady)	11	9	2	18	2	4	12	58
22	Eastern	Batticaloa	Eravur Town	14	4	0	0	6	4	15	43
23	Eastern	Batticaloa	Kattankudy	15	0	0	0	4	2	15	36
24	Eastern	Batticaloa	Koralaipattu (Valaichechenai)	11	0	0	0	2	4	12	29
25	Eastern	Batticaloa	Koralaipattu Central	11	0	2	0	6	4	15	38
26	Eastern	Batticaloa	Koralaipattu North (Vaharai)	14	9	10	12	8	4	15	72
27	Eastern	Batticaloa	Koralaipattu South (Kiran)	12	10	10	0	4	4	15	55
28	Eastern	Batticaloa	Koralaipattu West	14	8	0	0	2	4	15	43
29	Eastern	Batticaloa	Manmunai North (Batticaloa Town)	12	0	10	0	4	2	15	43
30	Eastern	Batticaloa	Manmunai South & Eruvil pattu (Kaluwanchikudy)	13	0	10	12	4	2	12	53
31	Eastern	Batticaloa	Manmunai South West (Paddipalai)	10	10	10	0	2	2	9	43
32	Eastern	Batticaloa	Manmunai West	11	10	10	6	2	2	3	44
33	Eastern	Batticaloa	Manmunai pattu (Arayampathi)	14	0	0	0	4	2	15	35
34	Eastern	Batticaloa	Porathivupattu (Vellavelly)	9	10	6	0	2	0	12	39
35	Eastern	Trincomalee	Eachchilampattu	11	9	6	6	6	4	12	54
36	Eastern	Trincomalee	Gomarankadawela	15	9	10	6	2	6	6	54
37	Eastern	Trincomalee	Kantalai	12	10	0	12	4	8	3	49
38	Eastern	Trincomalee	Kinniya	10	10	2	12	4	6	15	59
39	Eastern	Trincomalee	Kuchchaveli	11	8	10	12	4	4	12	61
40	Eastern	Trincomalee	Morawewa	15	9	10	0	6	6	15	61
41	Eastern	Trincomalee	Muthur	10	10	10	18	4	4	15	71
42	Eastern	Trincomalee	Padavi Sripura	12	10	2	0	2	2	0	28
43	Eastern	Trincomalee	Seruvila	6	10	2	0	4	4	3	29
44	Eastern	Trincomalee	Thampalakamam	13	9	10	0	2	8	12	54
45	Eastern	Trincomalee	Town & Gravets	13	8	6	0	8	6	15	56
46	North Central	Anuradhapura	Galenbindunuwewa	15	9	10	12	2	10	0	58
47	North Central	Anuradhapura	Galnewa	15	10	2	24	2	8	0	61
48	North Central	Anuradhapura	Horowapotana	14	9	2	30	4	6	0	65
49	North Central	Anuradhapura	Ipalogama	15	10	0	0	2	10	0	37
50	North Central	Anuradhapura	kahatagasdigiliya	15	9	2	30	2	8	0	66
51	North Central	Anuradhapura	Kebithigollewa	15	10	10	0	6	6	0	47
52	North Central	Anuradhapura	Kekirawa	15	10	10	30	2	10	0	77
53	North Central	Anuradhapura	Mahawilachchiya	12	10	10	30	8	8	9	87
54	North Central	Anuradhapura	Medawachchiya	14	10	0	18	4	8	0	54
55	North Central	Anuradhapura	Mihintale	14	10	2	6	4	10	0	46
56	North Central	Anuradhapura	Nachchaduwa	15	9	0	18	2	8	12	64
57	North Central	Anuradhapura	Nochchiyagama	13	10	6	30	4	10	6	79
58	North Central	Anuradhapura	Nuwaragam Palatha Central	14	10	2	30	6	10	0	72
59	North Central	Anuradhapura	Nuwaragam Palatha East	15	10	2	6	4	10	6	53
60	North Central	Anuradhapura	Padawiya	15	10	10	0	2	4	6	47
61	North Central	Anuradhapura	Palagala	14	7	0	0	2	8	0	31
62	North Central	Anuradhapura	Palugaswewa	15	9	10	30	2	10	0	76
63	North Central	Anuradhapura	Rajanganaya	12	10	0	24	2	10	0	58
64	North Central	Anuradhapura	Rambewa	14	10	10	6	4	10	0	54
65	North Central	Anuradhapura	Talawa	14	10	6	18	2	10	0	60
66	North Central	Anuradhapura	Tambuttegama	13	10	2	30	2	10	0	67
67	North Central	Anuradhapura	Tirappane	14	10	0	30	4	10	0	68

Table A 4.1 Result of Selection of Priority Site for Project Implementation (2/3)

No.	Province	District	DS Division	Result of Scoring							Total Score (100)
				Suitability of soil maximum point allocated (15)	Water Resources		Farmer's needs and ability maximum point allocated (30)	Market Advantage		Adequateness of Government Extension Services maximum point allocated (15)	
					Accessibility to ground water maximum point allocated (10)	Appropriateness of surface water maximum point allocated (10)		Accessibility to main road maximum point allocated (10)	Distance to Major Market maximum point allocated (10)		
68	North Central	Polonnaruwa	Dimbulagala	12	10	0	0	4	8	0	34
69	North Central	Polonnaruwa	Elahera	15	10	6	0	2	10	0	43
70	North Central	Polonnaruwa	Hingurakgoda	15	9	2	6	2	10	3	47
71	North Central	Polonnaruwa	Lankapura	6	10	0	0	2	8	0	26
72	North Central	Polonnaruwa	Medirigiriya	13	9	6	0	4	8	0	40
73	North Central	Polonnaruwa	Thamankaduwa	12	9	0	0	2	8	3	34
74	North Central	Polonnaruwa	Welikanda	12	10	0	0	10	6	9	47
75	North West	Kurunegala	Alawwa	7	9	0	0	0	8	0	24
76	North West	Kurunegala	Ambanpola	13	10	10	6	2	10	0	51
77	North West	Kurunegala	Bamunakotuwa	1	10	2	0	0	8	0	21
78	North West	Kurunegala	Bingiriya	8	10	0	0	2	6	0	26
79	North West	Kurunegala	Ehetuwewa	14	10	0	6	2	10	0	42
80	North West	Kurunegala	Galgamuwa	14	10	10	18	2	10	0	64
81	North West	Kurunegala	Ganewatta	10	10	2	0	0	8	0	30
82	North West	Kurunegala	Giribawa	14	10	10	6	2	10	3	55
83	North West	Kurunegala	Ibbagamuwa	3	9	2	6	0	10	0	30
84	North West	Kurunegala	Katupotha (Bamunakotuwa)	6	10	2	0	2	8	0	28
85	North West	Kurunegala	Kobeigane	13	10	6	0	2	8	0	39
86	North West	Kurunegala	kotavehera	14	10	10	18	0	8	3	63
87	North West	Kurunegala	Kuliyapitiya East	2	10	10	0	2	8	0	32
88	North West	Kurunegala	Kuliyapitiya West	5	10	6	0	2	8	3	34
89	North West	Kurunegala	Kurunegala	1	10	0	0	2	8	6	27
90	North West	Kurunegala	Mahawa	15	10	10	30	0	10	0	75
91	North West	Kurunegala	Mallawapitiya	4	9	0	0	0	8	0	21
92	North West	Kurunegala	Maspotha	6	10	2	0	2	8	6	34
93	North West	Kurunegala	Mawathagama	6	8	2	0	0	8	0	24
94	North West	Kurunegala	Narammala	4	9	0	0	0	8	0	21
95	North West	Kurunegala	Nikaweratiya	13	10	2	18	2	10	0	55
96	North West	Kurunegala	Panduwasnuwara	13	10	2	0	2	8	0	35
97	North West	Kurunegala	Panduwasnuwara East	8	10	2	0	2	10	0	32
98	North West	Kurunegala	Pannala	5	6	2	0	2	8	0	23
99	North West	Kurunegala	Polghawela	3	10	0	6	0	8	3	30
100	North West	Kurunegala	Polpithigama	14	9	10	24	2	10	0	69
101	North West	Kurunegala	Rasnayakapura	12	10	2	6	2	8	0	40
102	North West	Kurunegala	Ridigama	8	9	6	6	2	8	0	39
103	North West	Kurunegala	Udubaddawa	4	10	0	0	0	8	0	22
104	North West	Kurunegala	Wariyapola	14	10	2	0	2	8	0	36
105	North West	Kurunegala	Weerambugedara	3	10	6	0	0	8	0	27
106	North West	Puttalam	Anamaduwa	13	10	0	12	2	8	0	45
107	North West	Puttalam	Arachchikattuwa	6	10	2	0	2	6	0	26
108	North West	Puttalam	Chilaw	5	10	0	0	2	8	3	28
109	North West	Puttalam	Dankotuwa	7	10	0	0	2	10	0	29
110	North West	Puttalam	Kalpitiya	11	0	5	30	2	6	9	63
111	North West	Puttalam	Karuwalagaswewa	12	10	10	6	4	8	6	56
112	North West	Puttalam	Madampe	9	10	6	0	2	8	0	35
113	North West	Puttalam	Mahakumbukkadawala	15	10	2	18	4	6	0	55
114	North West	Puttalam	Mahawewa	10	10	0	0	2	8	9	39
115	North West	Puttalam	Mundel	12	3	2	6	2	6	0	31
116	North West	Puttalam	Nattandiya	9	10	10	0	2	8	0	39
117	North West	Puttalam	Nawagattegama	13	10	10	0	2	8	12	55
118	North West	Puttalam	Pallama	11	10	10	0	2	8	0	41
119	North West	Puttalam	Puttalam	11	8	10	6	2	8	15	60
120	North West	Puttalam	Vanathavillu	10	5	10	0	6	6	15	52
121	North West	Puttalam	Wennappuwa	9	7	5	0	4	8	6	39
122	Northern	Jaffna	Delft	14	0	5	0	10	0	15	44
123	Northern	Jaffna	Island North	13	0	5	0	8	0	15	41
124	Northern	Jaffna	Island South	12	0	5	0	6	0	15	38
125	Northern	Jaffna	Jaffna	14	10	5	0	6	2	15	52
126	Northern	Jaffna	Karainagar	13	0	5	0	2	0	9	29
127	Northern	Jaffna	Nallur	14	7	5	0	4	2	15	47
128	Northern	Jaffna	Thenmarachchy	14	5	5	6	4	2	0	36
129	Northern	Jaffna	Vadamarachchy East	14	0	5	0	6	2	15	42
130	Northern	Jaffna	Vadamarachchy North	14	0	5	6	4	2	9	40
131	Northern	Jaffna	Vadamarachchy South West	15	3	5	0	2	2	0	27
132	Northern	Jaffna	Valikamam East	15	4	5	18	4	2	0	48
133	Northern	Jaffna	Valikamam North	15	0	5	0	4	2	12	38
134	Northern	Jaffna	Valikamam South	15	0	5	6	4	2	3	35

Table A 4.1 Result of Selection of Priority Site for Project Implementation (3/3)

No.	Province	District	DS Division	Result of Scoring							Total Score (100)
				Suitability of soil maximum point allocated (15)	Water Resources		Farmer's needs and ability maximum point allocated (30)	Market Advantage		Adequateness of Government Extension Services maximum point allocated (15)	
					Accessibility to ground water maximum point allocated (10)	Appropriateness of surface water maximum point allocated (10)		Accessibility to main road maximum point allocated (10)	Distance to Major Market maximum point allocated (10)		
135	Northern	Jaffna	Valikamam South West	15	0	5	12	4	2	0	38
136	Northern	Jaffna	Valikamam West	15	0	5	12	2	2	3	39
137	Northern	Kilinochchi	Kandawalai	7	8	2	0	2	2	0	21
138	Northern	Kilinochchi	Karachchi	9	6	10	0	4	2	0	31
139	Northern	Kilinochchi	Pachchilapalli	1	0	0	0	4	2	15	22
140	Northern	Kilinochchi	Poonakari	13	1	0	0	6	2	9	31
141	Northern	Mannar	Madu	14	10	10	0	10	6	15	65
142	Northern	Mannar	Mannar	15	0	10	0	2	4	15	46
143	Northern	Mannar	Manthai West	13	3	10	6	4	4	15	55
144	Northern	Mannar	Musali	11	6	0	0	8	4	15	44
145	Northern	Mannar	Nanaddan	14	2	0	0	2	4	9	31
146	Northern	Mullaitivu	Manthai East	12	10	10	12	8	4	12	68
147	Northern	Mullaitivu	Maritimepattu	11	8	10	0	6	4	12	51
148	Northern	Mullaitivu	Oddusuddan	13	10	6	30	8	4	12	83
149	Northern	Mullaitivu	Puthukudiyiruppu	11	9	10	12	4	2	3	51
150	Northern	Mullaitivu	Thunukkai	13	10	6	12	6	4	12	63
151	Northern	Mullaitivu	Welioya	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A
152	Northern	Vavuniya	Cheddikulam	0	10	0	6	4	6	0	26
153	Northern	Vavuniya	Vavuniya	14	10	10	24	4	6	0	68
154	Northern	Vavuniya	Vavuniya - North	15	10	2	6	6	4	12	55
155	Northern	Vavuniya	Vavuniya-South	15	10	10	0	4	8	12	59
156	Uva	Badulla	Badulla	14	9	0	0	4	10	9	46
157	Uva	Badulla	Bandarawela	8	9	0	0	2	10	0	29
158	Uva	Badulla	Ella	8	10	0	12	2	10	12	54
159	Uva	Badulla	Haldummulla	8	9	0	6	4	10	12	49
160	Uva	Badulla	Hali Ela	12	9	0	30	2	10	3	66
161	Uva	Badulla	Haputale	13	8	0	0	2	10	9	42
162	Uva	Badulla	Kandaketiya	5	9	2	0	4	8	6	34
163	Uva	Badulla	Lunugala	13	10	0	0	2	8	0	33
164	Uva	Badulla	Mahiyangana	2	10	2	18	2	6	0	40
165	Uva	Badulla	Migahakivula	14	8	0	30	6	10	0	68
166	Uva	Badulla	Passara	9	9	0	0	2	8	0	28
167	Uva	Badulla	Ridimaliyadda	0	9	2	18	2	6	0	37
168	Uva	Badulla	Soranatota	14	8	0	0	2	8	0	32
169	Uva	Badulla	Uva paranagama	3	9	0	30	2	10	0	54
170	Uva	Badulla	Welimada	12	9	0	30	2	10	0	63
171	Uva	Monaragala	Badalkumpura	11	10	2	18	2	8	0	51
172	Uva	Monaragala	Bibile	12	10	6	18	2	8	0	56
173	Uva	Monaragala	Buttala	14	10	6	18	2	6	0	56
174	Uva	Monaragala	Kataragama	13	10	10	0	10	10	9	62
175	Uva	Monaragala	Madulla	14	10	6	30	2	6	0	68
176	Uva	Monaragala	Medagama	13	10	2	18	2	6	0	51
177	Uva	Monaragala	Monaragala	15	10	10	18	0	6	0	59
178	Uva	Monaragala	Sewanagala	12	10	0	6	4	2	0	34
179	Uva	Monaragala	Siyambalanduwa	13	10	2	24	10	6	0	65
180	Uva	Monaragala	Tanamalwila	14	10	0	0	6	6	0	36
181	Uva	Monaragala	Wellawaya	14	10	6	18	2	8	0	58

Table A 4.2 Candidate DS Division for Project Implementation

Province	District	Candidate DS Division	Remarks
Northern	Mannar	Madu	
		Manthai West	
	Mullaitivu	Manthai East	
		Oddusuddan	
		Thunukkai	
	Vavuniya	Vavuniya	
Vavuniya - North			
Vavuniya-South			
Eastern	Ampara	Mahaoya	
		Padiyatalawa	
	Batticaloa	Eravur Pattu (Chenkalady)	
		Koralaipattu North (Vaharai)	
		Koralaipattu South (Kiran)	
	Trincomalee	Kinniya	
		Kuchchaveli	
		Morawewa	
		Muthur	
		Town & Gravets	
North Central	Anuradhapura	Galenbindunuwewa	
		Galnewa	
		Horowapotana	
		kahatagasdigiliya	
		Kekirawa	
		Mahawilachchiya	
		Nachchaduwa	
		Nochchiyagama	
		Nuwaragam Palatha Central	
		Palugaswewa	
		Rajanganaya	
		Talawa	
		Tambuttegama	
		Tirappane	
North West	Kurunegala	Ambanpola	Low score but selected based on zonal development plan of NWP
		Ehetuwewa	Low score but selected based on zonal development plan of NWP
		Galgamuwa	
		Giribawa	
		kotavehera	
		Mahawa	
		Nikaweratiya	
		Polpithigama	
	Puttalam	Anamaduwa	Low score but selected based on zonal development plan of NWP
		Karuwalagaswewa	
	Mahakumbukkadawala		
	Nawagattegama		
Uva	Badulla	Hali Ela	
		Migahakivula	
		Welimada	
	Monaragala	Badalkumpura	Low score but selected based on the development plan of UP
		Bibile	
		Buttala	
		Madulla	
	Monaragala		
	Siyambalanduwa		
	Wellawaya		

Note: Although scores of Kalpitiya, Puttalam in Puttalam District and Kataragama in Moneragala District are high, these DS divisions were not selected due to provincial level adjustment based on the development plan

Table A 4.3 Target Development Areas by Strategic Crop and DS Division in Each Province (1/2)

Province	District	DS Division	Fruit						OFC				TOTAL Increment through Project				
			Banana	Lime	Mango	Papaw	Passion Fruits	Sweet Orange	Chili	Red Onion	Big Onion	Legumes	OFC (ha)		Fruit (ha)		TOTAL (ha)
													Under Irrigation Scheme	Under Agro well	Under Irrigation Scheme	Under Agro well	
North	Mannar	Manthai West	0	10	50	0	0	0	150	40	20	0	170	40		60	270
		Madu	20	0	10	0	0	0	50	30	50	0	50	80		30	160
	Mullative	Thunukkai	0	0	0	0	0	0	180	10	20	280	480	10		0	490
		Manthai East	0	0	0	0	0	10	450	10	60	130	620	30	10		660
	Vauniya	Oddusuddan	0	0	0	0	0	10	540	20	30	230	800	20	10		830
		Vavuniya town	0	0	20	0	0	0	130	50	30	0	160	50		20	230
Vavuniya North		0	0	0	0	0	0	10	140	20	0	20	150		0	170	
		Vavuniya South	0	0	0	0	0	40	0	60	0	60	40		0	100	
SUB TOTAL			20	10	80	0	0	20	1,550	300	290	640	2,360	420	20	110	2,910
East	Trincomalee	Kuchchiweli	0	0	0	20	0	0	10	400	40	60	110	400		20	530
		Morawewa	0	0	0	0	0	0	0	0	0	160	160	0		0	160
		Town & Gravets	0	0	20	0	0	10	40	10	20	70	130	10		30	170
		Kinniya	20	0	30	0	0	20	0	20	0	10	10	20		70	100
		Muthur	0	0	0	0	0	0	10	110	10	0	20	110		0	130
	Ampara	Padiyathalawa	30	20	10	0	0	20	0	0	0	20	20	0		80	100
		Mahaoya	70	0	0	0	0	0	0	0	0	100	100	0		70	170
	Batticaloa	Koralai pattu South	0	0	0	0	0	0	0	0	0	330	330	0		0	330
		Koralai pattu North	10	0	0	0	0	0	90	0	0	10	10	80		10	100
		Chenkalady	20	0	70	0	0	0	10	0	0	0	0	10		90	100
SUB TOTAL			150	20	130	20	0	50	160	540	70	750	890	630	0	370	1,890
North Central	Anuradapura	Horowpothana	0	0	140	0	0	0	0	0	0	20	20	0		140	160
		Kahatagasdigiliya	0	0	0	0	0	0	120	0	60	0	180	0		0	180
		Galenbindunuwewa	0	0	40	0	0	0	190	0	20	0	210	0		40	250
		Mahawilachchiya	40	0	40	0	0	0	20	0	0	0	0	20		80	100
		Nuwaragampalatha (Central)	0	0	60	0	0	0	40	0	0	0	0	40		60	100
		Nachchaduwa	0	0	10	0	0	0	30	0	60	0	0	90		10	100
		Rajangana	0	0	0	0	0	0	0	0	0	0	0	0		0	0
		Galnewa	20	0	0	0	0	0	80	0	0	0	0	80		20	100
		Thambuttegama	0	0	0	0	0	0	0	0	0	0	0	0		0	0
		Talawa	0	0	0	0	0	30	0	0	70	0	0	70		30	100
		Nochchiyagama	0	0	30	0	0	0	70	0	0	0	0	70		30	100
		Tirappane	10	0	20	0	0	10	60	0	0	0	0	60		40	100
		Palugaswewa	0	0	0	0	0	0	100	0	0	0	30	70		0	100
	Kakirawa	20	10	0	0	0	0	70	0	0	0	0	70		30	100	
System H	Mahaveli System H	0	0	60	30	0	10	1,650	20	1,210	5,270	8,150	0		100	8,250	
SUB TOTAL			90	10	400	30	0	50	2,430	20	1,420	5,290	8,590	570	0	580	9,740
North West	Kurunegala	Galgamuwa	10	30	50	0	0	10	0	0	0	0	0	0		100	100
		Giribawa	0	0	30	10	0	10	10	0	0	40	50	0		50	100
		Ehatuwewa	0	0	0	0	0	0	0	0	0	0	0	0		0	0
		Ambanpola	0	40	50	40	0	10	0	0	0	0	0	0		140	140
		Nikaweratiya	10	0	0	40	0	30	20	0	0	0	0	20		80	100
		Maho	10	0	50	50	0	10	0	0	30	0	0	30		120	150
		Kotawehera	10	0	40	20	0	30	40	0	0	0	40	0		100	140
		Polpithigama	10	0	90	150	0	20	0	10	50	0	0	60		270	330
	Puttalam	Karuwalagaswewa	0	50	130	50	0	50	40	10	0	330	380	0	280		660
		Nawagattegama	0	0	60	0	0	20	10	0	10	0	10	10		80	100
	Anamaduwa	0	30	40	20	0	10	290	0	50	180	520	0		100	620	
	Mahakumbukadawala	0	0	0	0	0	0	100	0	0	0	0	100		0	100	
SUB TOTAL			50	150	540	380	0	200	510	20	140	550	1,000	220	280	1,040	2,540
Uva	Badulla	Haliela	30	0	10	0	0	40	0	0	80	0	0	80		80	160
		Welimada	0	0	0	0	20	20	120	10	200	0	90	240		40	370
		Meegahakiwla	0	0	20	0	0	0	0	0	80	0	0	80		20	100
	Maneragala	Badalkumbura	30	10	0	0	0	30	40	0	0	90	130	0		70	200
		Madulla	0	0	10	20	10	50	70	0	0	0	0	70		90	160
		Bibila	0	0	0	0	0	110	30	0	0	0	0	30		110	140
		Buttala	30	0	0	0	10	20	310	0	0	0	10	300		60	370
		Wellawaya	0	0	40	0	0	30	30	0	0	0	30	0		70	100
		Monaragala	0	0	100	0	0	0	0	0	0	0	0	0		100	100
	Siyambalanduwa	0	0	70	0	0	0	30	0	0	0	10	20		70	100	
SUB TOTAL			90	10	250	20	40	300	630	10	360	90	270	820	0	710	1,800
TOTAL			400	200	1,400	450	40	620	5,280	890	2,280	7,320	13,110	2,660	300	2,810	18,880

Source: JICA Survey Team

Table A 4.4 Crop Budget per Hectare for OFC under With-project Conditions in Financial Prices (1/2)

	Unit	Green gram			Black gram			Cowpea			Soybean			Groundnut		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																
Yield	(kg)	170.0	1,800.0	306,000.0	160.0	1,800.0	288,000.0	135.0	1,500.0	202,500.0	45.0	2,500.0	112,500.0	99.0	2,500.0	247,500.0
B. Production Cost																
1) Seeds	(kg)	263.0	24.0	6,312.0	178.0	30.0	5,340.0	154.0	35.0	5,390.0	135.0	50.0	6,750.0	111.0	154.0	17,094.0
2) Fertilizers																
- Urea	(kg)	26.0	65.0	1,690.0	26.0	65.0	1,690.0	26.0	65.0	1,690.0	26.0	100.0	2,600.0	26.0	65.0	1,690.0
- TSP	(kg)	26.0	100.0	2,600.0	26.0	100.0	2,600.0	26.0	100.0	2,600.0	26.0	150.0	3,900.0	26.0	100.0	2,600.0
- MOP	(kg)	26.0	75.0	1,950.0	26.0	75.0	1,950.0	26.0	75.0	1,950.0	26.0	50.0	1,300.0	26.0	75.0	1,950.0
- TDM	(kg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Mixture	(kg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Poultry manure	(ton)	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0
- Others	(LS)	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0
Sub-total				6,240.0			6,240.0			6,240.0			7,800.0			6,240.0
3) Agro-chemicals																
- Herbicide	(Rs)	4,600.0	1.0	4,600.0	4,600.0	1.0	4,600.0	4,600.0	0.0	0.0	4,600.0	0.0	0.0	4,600.0	0.0	0.0
- Pesticide	(Rs)	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0	4,190.0	1.0	4,190.0
Sub-total				8,790.0			8,790.0			4,190.0			4,190.0			4,190.0
4) Machinery																
- Land preparation	(Rs)	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0
- Irrigation by pump	(Rs)	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0
- Threshing and winnowing per ton	(ton)	2,450.0	1.8	4,410.0	2,450.0	1.8	4,410.0	2,450.0	1.5	3,675.0	2,450.0	2.5	6,125.0	2,450.0	2.5	6,125.0
- Transport produce per ton	(ton)	380.0	1.8	684.0	380.0	1.8	684.0	380.0	1.5	570.0	380.0	2.5	950.0	380.0	2.5	950.0
Sub-total				18,494.0			18,494.0			17,645.0			20,475.0			20,475.0
5) Human labor																
- Hired	(prn/day)	740.0	40.0	29,600.0	740.0	27.0	19,980.0	740.0	12.0	8,880.0	740.0	32.0	23,680.0	740.0	32.0	23,680.0
- Family	(prn/day)	0.0	32.0	0.0	0.0	25.0	0.0	0.0	84.0	0.0	0.0	84.0	0.0	0.0	84.0	0.0
Sub-total			72.0	29,600.0		52.0	19,980.0		96.0	8,880.0		116.0	23,680.0		116.0	23,680.0
6) Support	(Rs)			0.0			0.0			0.0			0.0			0.0
7) Miscellaneous (5%)				3,471.8			2,942.2			2,117.3			3,144.8			3,584.0
Total Cost																
- Including family labour	(Rs)			96,587.8			80,286.2			106,622.3			128,199.8			137,423.0
- Excluding family labour	(Rs)			72,907.8			61,786.2			44,462.3			66,039.8			75,263.0
C. Net Return																
- Including family labour	(Rs)			209,412.2			207,713.8			95,877.8			-15,699.8			110,077.1
- Excluding family labour	(Rs)			233,092.2			226,213.8			158,037.8			46,460.3			172,237.1

Source (1): Estimated by JICA Survey Team based on data from Socio-economics and Planning Center, DOA

Table A 4.4 Crop Budget per Hectare for OFC under With-project Conditions in Financial Prices (2/2)

	Unit	Legumes Average			Chilli (Green)			Red onion			Big onion			Paddy Irrigated		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																
Yield	(kg)			231,300.0	100.0	11,000.0	1,100,000.0	87.0	15,500.0	1,348,500.0	67.0	18,000.0	1,206,000.0	28.0	5,500.0	154,000.0
B. Production Cost																
1) Seeds	(kg)				1,976.0	1.8	3,458.0	112.0	1,406.2	157,494.4	4,201.0	7.7	32,347.7	64.0	139.3	8,915.2
2) Fertilizers																
-Urea	(kg)				26.0	255.0	6,630.0	26.0	139.0	3,614.0	26.0	200.0	5,200.0	7.0	274.0	1,918.0
- TSP	(kg)				26.0	145.0	3,770.0	26.0	290.0	7,540.0	26.0	185.0	4,810.0	7.0	101.0	707.0
- MOP	(kg)				26.0	130.0	3,380.0	26.0	0.0	0.0	26.0	0.0	0.0	7.0	89.0	623.0
- TDM	(kg)				26.0	0.0	0.0	26.0	0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.0
- Mixture	(kg)				26.0	150.0	3,900.0	26.0	321.0	8,346.0	26.0	520.0	13,520.0	0.0	0.0	0.0
- Poultry manure	(ton)				20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0
- Others	(LS)				22,000.0	1.0	22,000.0	22,000.0	1.0	22,000.0	22,000.0	1.0	22,000.0	22,000.0	0.0	0.0
Sub-total							39,680.0			41,500.0			45,530.0			3,248.0
3) Agro-chemicals																
- Herbicide	(Rs)				5,910.0	0.0	0.0	5,910.0	1.0	5,910.0	5,910.0	1.0	5,910.0	8,150.0	1.0	8,150.0
- Pesticide	(Rs)				34,550.0	1.0	34,550.0	34,550.0	1.0	34,550.0	34,550.0	1.0	34,550.0	4,210.0	1.0	4,210.0
Sub-total							34,550.0			40,460.0			40,460.0			12,360.0
4) Machinery																
- Land preparation	(Rs)				13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0	13,400.0	1.0	13,400.0
- Irrigation by pump	(Rs)				23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0	23,600.0	0.0	0.0
- Threshing and winnowing per ton	(ton)				2,450.0	0.0	0.0	2,450.0	0.0	0.0	2,450.0	0.0	0.0	2,450.0	5.5	13,475.0
- Transport produce per ton	(ton)				380.0	11.0	4,180.0	380.0	15.5	5,890.0	380.0	18.0	6,840.0	380.0	5.5	2,090.0
Sub-total							17,580.0			19,290.0			20,240.0			28,965.0
5) Human labor																
- Hired	(prn/day)				740.0	146.0	108,040.0	740.0	175.0	129,500.0	740.0	210.0	155,400.0	740.0	32.0	23,680.0
- Family	(prn/day)				0.0	228.0	0.0	0.0	62.0	0.0	0.0	89.0	0.0	35.0	0.0	
Sub-total						374.0	108,040.0		237.0	129,500.0		299.0	155,400.0	67.0	23,680.0	
6) Support	(Rs)						0.0			0.0		0.0			0.0	
7) Miscellaneous (5%)							10,165.4			19,412.2			14,698.9			3,858.4
Total Cost																
- Including family labour	(Rs)				109,823.8		382,193.4			453,536.6			374,536.6			106,926.6
- Excluding family labour	(Rs)				64,091.8		213,473.4			407,656.6			308,676.6			81,026.6
C. Net Return																
- Including family labour	(Rs)				121,476.2		717,806.6			894,963.4			831,463.4			47,073.4
- Excluding family labour	(Rs)				167,208.2		886,526.6			940,843.4			897,323.4			72,973.4

Source (1): Estimated by JICA Survey Team based on data from Socio-economics and Planning Center, DOA

Table A 4.5 Crop Budget per Hectare for Fruits under With-project Condition in Financial Prices(1/6)

(1) Banana	Unit	Unit Price (Rs)	Banana: 1st Year		Banana: 2nd Year		Banana: 3rd Year		Banana: 4th Year		Banana: 5th Year		Banana: 5-year Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income														
Yield	(kg)	20.0	0.0	0.0	23,000.0	460,000.0	35,000.0	700,000.0	26,000.0	520,000.0	16,000.0	320,000.0	20,000.0	400,000.0
B. Production Cost														
1) Suckers	(kg)	24.3	1,100.0	26,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	220.0	5,346.0
2) Fertilizers														
- Urea	(kg)	26.0	462.0	12,012.0	415.8	10,810.8	415.8	10,810.8	415.8	10,810.8	415.8	10,810.8	425.0	11,051.0
- TSP	(kg)	26.0	308.0	8,008.0	277.2	7,207.2	277.2	7,207.2	277.2	7,207.2	277.2	7,207.2	283.4	7,367.4
- MOP	(kg)	26.0	962.0	25,012.0	865.8	22,510.8	865.8	22,510.8	865.8	22,510.8	865.8	22,510.8	885.0	23,011.0
- Compost	(ton)	20,000.0	10.0	200,000.0	0.0	0.0	10.0	200,000.0	10.0	200,000.0	0.0	0.0	6.0	120,000.0
- Others	(ha)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				245,032.0		40,528.8		240,528.8		240,528.8		40,528.8		161,429.4
3) Agro-chemicals														
- Herbicide	(ha)	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0
- Pesticide	(ha)	10,640.0	0.0	0.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	0.8	8,512.0
- Hormone	(ha)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				12,150.0		22,790.0		22,790.0		22,790.0		22,790.0		20,662.0
4) Machinery														
- Land preparation	(ha)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2,680.0
- Irrigation by pump	(ha)	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0
- Transport produce per ton	(ton)	380.0	0.0	0.0	23.0	8,740.0	35.0	13,300.0	26.0	9,880.0	16.0	6,080.0	20.0	7,600.0
Sub-total				37,000.0		32,340.0		36,900.0		33,480.0		29,680.0		33,880.0
5) Human labor														
- Hired	(prn/day)	740.0	110.0	81,400.0	44.0	32,560.0	44.0	32,560.0	44.0	32,560.0	44.0	32,560.0	57.2	42,328.0
- Family	(prn/day)	0.0	171.0	0.0	67.0	0.0	67.0	0.0	67.0	0.0	67.0	0.0	87.8	0.0
Sub-total				81,400.0		32,560.0		32,560.0		32,560.0		32,560.0		42,328.0
6) Support														
- Poles and wires	(ha)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)				20,115.6		6,410.9		16,638.9		16,467.9		6,277.9		13,182.3
Total Cost														
- Including family labour				548,967.6		184,209.7		398,997.7		395,406.7		181,416.7		341,799.7
- Excluding family labour				422,427.6		134,629.7		349,417.7		345,826.7		131,836.7		276,827.7
C. Net Return														
- Including family labour				-548,967.6		275,790.3		301,002.3		124,593.3		138,583.3		58,200.3
- Excluding family labour				-422,427.6		325,370.3		350,582.3		174,173.3		188,163.3		123,172.3

Source: Estimated by JICA Survey Team based on data from DOA

Table A 4.5 Crop Budget per Hectare for Fruits under With-project Condition in Financial Prices (2/6)

(2) Papaw

	Unit	Unit Price (Rs)	Papaw: 1st Year		Papaw: 2nd Year		Papaw: 3rd Year		Papaw: 4th Year		Papaw: 4-year Average		Amount	Value (Rs)
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)		
A. Gross Income														
Yield	(kg)	33.2	0.0	0.0	32,500.0	1,079,000.0	36,000.0	1,195,200.0	31,500.0	1,045,800.0	25,000.0	830,000.0		
B. Production Cost														
1) Seedlings	(kg)	36.5	1,125.0	41,062.5	0.0	0.0	0.0	0.0	0.0	0.0	281.3	10,265.6		
2) Fertilizers														
- Urea	(kg)	26.0	603.3	15,686.7	537.1	13,965.7	537.1	13,965.7	537.1	13,965.7	553.7	14,395.9		
- TSP	(kg)	26.0	349.0	9,074.0	310.7	8,078.5	310.7	8,078.5	310.7	8,078.5	320.3	8,327.4		
- MOP	(kg)	26.0	1,271.7	33,063.3	1,132.1	29,435.8	1,132.1	29,435.8	1,132.1	29,435.8	1,167.0	30,342.7		
- Compost	(ton)	20,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0		
- Others	(ha)	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Sub-total				277,824.0		271,480.0		271,480.0		271,480.0		273,066.0		
3) Agro-chemicals														
- Herbicide	(ha)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
- Pesticide	(ha)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0		
- Hormone	(ha)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Sub-total				10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		
4) Machinery														
- Land preparation	(ha)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3,350.0		
- Irrigation by pump	(ha)	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0		
- Transport produce per ton	(ton)	380.0	0.0	0.0	32.5	12,350.0	36.0	13,680.0	31.5	11,970.0	25.0	9,500.0		
Sub-total				37,000.0		35,950.0		37,280.0		35,570.0		36,450.0		
5) Human labor														
- Hired	(prn/day)	740.0	112.8	83,474.8	102.0	75,498.7	118.5	87,694.7	102.0	75,498.7	108.8	80,541.7		
- Family	(prn/day)	0.0	171.2	0.0	158.0	0.0	183.5	0.0	158.0	0.0	167.7	0.0		
Sub-total			284.0	83,474.8	260.0	75,498.7	302.0	87,694.7	260.0	75,498.7	276.5	80,541.7		
6) Support														
- Poles and wires	(ha)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7) Miscellaneous (5%)														
				22,500.1		19,678.4		20,354.7		19,659.4		20,548.2		
Total Cost														
- Including family labour				599,186.6		530,148.4		563,234.7		529,749.4		555,579.8		
- Excluding family labour				472,501.3		413,247.2		427,449.4		412,848.2		431,511.5		
C. Net Return														
- Including family labour				-599,186.6		548,851.6		631,965.3		516,050.6		274,420.2		
- Excluding family labour				-472,501.3		665,752.8		767,750.6		632,951.8		398,488.5		

Source: Estimated by JICA Survey Team based on data from DOA

Table A 4.5 Crop Budget per Hectare for Fruits under With-project Condition in Financial Prices (3/6)

(3) Passion fruit

	Unit	Unit Price (Rs)	Passion fruit: 1st Year		Passion fruit: 2nd Year		Passion fruit: 3rd Year		Passion fruit: 4th Year		Passion fruit: 5th Year		Passion fruit: 5-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income														
Yield	(kg)	51.3	0.0	0.0	20,000.0	1,026,000.0	22,000.0	1,128,600.0	17,500.0	897,750.0	10,500.0	538,650.0	14,000.0	718,200.0
B. Production Cost														
1) Seedling	(kg)	15.0	1,125.0	16,875.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.0	3,375.0
2) Fertilizers														
- Urea	(kg)	26.0	202.0	5,252.0	282.8	7,352.8	282.8	7,352.8	343.4	8,928.4	551.5	14,338.0	332.5	8,644.8
- TSP	(kg)	26.0	360.0	9,360.0	504.0	13,104.0	504.0	13,104.0	612.0	15,912.0	982.8	25,552.8	592.6	15,406.6
- MOP	(kg)	26.0	180.0	4,680.0	252.0	6,552.0	252.0	6,552.0	306.0	7,956.0	491.4	12,776.4	296.3	7,703.3
- Compost	(ton)	20,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0
- Others	(ha)	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0
Sub-total				219,292.0		227,008.8		227,008.8		232,796.4		252,667.2		231,754.6
3) Agro-chemicals														
- Herbicide	(ha)	12,150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Pesticide	(ha)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0
- Hormone	(ha)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				10,640.0		10,640.0		10,640.0		10,640.0		10,640.0		10,640.0
4) Machinery														
- Land preparation	(ha)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2,680.0
- Irrigation by pump	(ha)	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0
- Transport produce per ton	(ton)	380.0	0.0	0.0	20.0	7,600.0	22.0	8,360.0	17.5	6,650.0	10.5	3,990.0	14.0	5,320.0
Sub-total				37,000.0		31,200.0		31,960.0		30,250.0		27,590.0		31,600.0
5) Human labor														
- Hired	(prn/day)	740.0	139.0	102,860.0	94.0	69,560.0	98.0	72,520.0	98.0	72,520.0	98.0	72,520.0	105.4	77,996.0
- Family	(prn/day)	0.0	217.0	0.0	146.0	0.0	152.0	0.0	152.0	0.0	152.0	0.0	163.8	0.0
Sub-total			356.0	102,860.0	240.0	69,560.0	250.0	72,520.0	250.0	72,520.0	250.0	72,520.0	269.2	77,996.0
6) Support														
- Poles and wires	(ha)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)														
				19,333.4		16,920.4		17,106.4		17,310.3		18,170.9		17,768.3
Total Cost														
- Including family labour				566,580.4		463,369.2		471,715.2		475,996.7		494,068.0		494,345.9
- Excluding family labour				406,000.4		355,329.2		359,235.2		363,516.7		381,588.0		373,133.9
C. Net Return														
- Including family labour				-566,580.4		562,630.8		656,884.8		421,753.3		44,582.0		223,854.1
- Excluding family labour				-406,000.4		670,670.8		769,364.8		534,233.3		157,062.0		345,066.1

Source: Estimated by JICA Survey Team based on data from DOA

Table A 4.5 Crop Budget per Hectare for Fruits under With-project Condition in Financial Prices (4/6)

(4) Mango																		
	Unit	Unit Price (Rs)	Mango: 1st Year		Mango: 2nd Year		Mango: 3rd Year		Mango: 4th Year		Mango: 5th Year		Mango: 6th Year		Mango: 7-20th Yr Ave.		Mango: 20-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income																		
Yield	(kg)	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,800.0	395,760.0	6,800.0	395,760.0	27,600.0	1,606,320.0	20,000.0	1,164,000.0
B. Production Cost																		
1) Seedling	(kg)	121.6	105.0	12,768.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	638.4
2) Fertilizers																		
-Urea	(kg)	26.0	42.0	1,092.0	42.0	1,092.0	42.0	1,092.0	42.0	1,092.0	69.0	1,794.0	87.0	2,262.0	177.0	4,602.0	140.1	3,642.6
- TSP	(kg)	26.0	51.0	1,326.0	51.0	1,326.0	51.0	1,326.0	51.0	1,326.0	84.0	2,184.0	106.0	2,756.0	215.0	5,590.0	170.2	4,425.2
- MOP	(kg)	26.0	23.0	598.0	23.0	598.0	23.0	598.0	23.0	598.0	38.0	988.0	48.0	1,248.0	97.0	2,522.0	76.8	1,996.8
- Compost	(ton)	20,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				203,016.0		203,016.0		203,016.0		203,016.0		204,966.0		206,266.0		212,714.0		210,064.6
3) Agro-chemicals																		
- Herbicide	(ha)	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0
- Pesticide	(ha)	10,640.0	0.0	0.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,108.0
- Hormone	(ha)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				12,150.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,258.0
4) Machinery																		
- Land preparation	(ha)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	670.0
- Irrigation by pump	(ha)	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0
- Transport produce per ton	(ton)	380.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	2,584.0	6.8	2,584.0	27.6	10,488.0	20.0	7,600.0	
Sub-total				37,000.0		23,600.0		23,600.0		23,600.0		26,184.0		26,184.0		34,088.0		31,870.0
5) Human labor																		
- Hired	(pm/day)	740.0	47.0	34,780.0	37.0	27,380.0	38.0	28,120.0	71.0	52,540.0	82.0	60,680.0	83.0	61,420.0	83.0	61,420.0	76.0	56,240.0
- Family	(pm/day)	0.0	73.0	0.0	57.0	0.0	59.0	0.0	111.0	0.0	127.0	0.0	131.0	0.0	131.0	0.0	119.6	
Sub-total			120.0	34,780.0	94.0	27,380.0	97.0	28,120.0	182.0	52,540.0	209.0	60,680.0	214.0	61,420.0	214.0	61,420.0	195.6	56,240.0
6) Support																		
- Poles and wires	(ha)	70,200.0	1.0	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	14,040.0	0.0	2,808.0	0.1	6,177.6
7) Miscellaneous (5%)																		
				18,495.7		13,839.3		13,876.3		15,097.3		15,731.0		16,535.0		16,691.0		16,362.4
Total Cost																		
- Including family labour				442,429.7		332,805.3		335,062.3		399,183.3		424,331.0		444,175.0		447,451.0		432,115.0
- Excluding family labour				388,409.7		290,625.3		291,402.3		317,043.3		330,351.0		347,235.0		350,511.0		343,611.0
C. Net Return																		
- Including family labour				-442,429.7		-332,805.3		-335,062.3		-399,183.3		-28,571.0		-48,415.0		1,158,869.0		731,885.0
- Excluding family labour				-388,409.7		-290,625.3		-291,402.3		-317,043.3		65,409.0		48,525.0		1,255,809.0		820,389.0

Source: Estimated by JICA Survey Team based on data from DOA

Table A 4.5 Crop Budget per Hectare for Fruits under With-project Condition in Financial Prices (5/6)

(5) Sweet Orange																		
	Unit	Unit Price (Rs)	Orange: 1st Year		Orange: 2nd Year		Orange: 3rd Year		Orange: 4th Year		Orange: 5th Year		Orange: 6-8th Yr Ave.		Orange: 9-15th Yr Ave.		Orange: 15-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income																		
Yield	(fruit)	76.8	0.0	0.0	0.0	0.0	0.0	0.0	4,000.0	307,200.0	8,000.0	614,400.0	16,800.0	1,290,240.0	16,800.0	1,290,240.0	12,000.0	921,600.0
B. Production Cost																		
1) Seedlings	(kg)	121.6	562.0	68,339.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	4,555.9
2) Fertilizers																		
- Urea	(kg)	26.0	90.0	2,340.0	88.0	2,288.0	133.0	3,458.0	175.0	4,550.0	220.0	5,720.0	264.0	6,864.0	264.0	6,864.0	223.1	5,799.7
- TSP	(kg)	26.0	112.0	2,912.0	110.0	2,860.0	164.0	4,264.0	218.0	5,668.0	274.0	7,124.0	327.0	8,502.0	327.0	8,502.0	276.5	7,189.9
- MOP	(kg)	26.0	51.0	1,326.0	50.0	1,300.0	74.0	1,924.0	100.0	2,600.0	124.0	3,224.0	149.0	3,874.0	149.0	3,874.0	125.9	3,274.3
- Compost	(ton)	20,000.0	5.6	112,400.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	119,493.3
- Others	(LS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				118,978.0		126,448.0		129,646.0		132,818.0		136,068.0		139,240.0		139,240.0		135,757.2
3) Agro-chemicals																		
- Herbicide	(ha)	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0
- Pesticide	(ha)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0
- Hormone	(ha)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0
4) Machinery																		
- Land preparation	(ha)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	893.3
- Irrigation by pump	(ha)	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0
- Transport produce per ton	(ton)	380.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1,520.0	8.0	3,040.0	16.8	6,384.0	16.8	6,384.0	12.0	4,560.0
Sub-total				37,000.0		23,600.0		23,600.0		25,120.0		26,640.0		29,984.0		29,984.0		29,053.3
5) Human labor																		
- Hired	(prn/day)	740.0	88.0	65,120.0	39.0	28,860.0	39.0	28,860.0	39.0	28,860.0	43.0	31,820.0	43.0	31,820.0	43.0	31,820.0	45.2	33,448.0
- Family	(prn/day)	0.0	139.0	0.0	60.0	0.0	60.0	0.0	60.0	0.0	68.0	0.0	68.0	0.0	68.0	0.0	71.1	0.0
Sub-total			227.0	65,120.0	99.0	28,860.0	99.0	28,860.0	99.0	28,860.0	111.0	31,820.0	111.0	31,820.0	111.0	31,820.0	116.3	33,448.0
6) Support																		
- Poles and wires	(ha)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)																		
				15,611.4		10,084.9		10,244.8		10,479.4		10,865.9		11,191.7		11,191.7		11,280.2
Total Cost																		
- Including family labour				430,698.6		256,182.9		259,540.8		264,467.4		278,503.9		285,345.7		285,345.7		289,523.4
- Excluding family labour				327,838.6		211,782.9		215,140.8		220,067.4		228,183.9		235,025.7		235,025.7		236,884.7
C. Net Return																		
- Including family labour				-430,698.6		-256,182.9		-259,540.8		-42,732.6		-335,896.1		-1,004,894.3		-1,004,894.3		-632,076.6
- Excluding family labour				-327,838.6		-211,782.9		-215,140.8		-87,132.6		-386,216.1		-1,055,214.3		-1,055,214.3		-684,715.3

Source: Estimated by JICA Survey Team based on data from DOA

Table A 4.5 Crop Budget per Hectare for Fruits under With-project Condition in Financial Prices (6/6)

	Unit	Unit Price (Rs)	Lime: 1st Year		Lime: 2nd Year		Lime: 3rd Year		Lime: 4th Year		Lime: 5th Year		Lime: 6th Year		Lime: 7-15th Yr Ave.		Lime: 15-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(kg)	60.0	0.0	0.0	0.0	0.0	5,000.0	300,000.0	8,000.0	480,000.0	12,000.0	720,000.0	18,500.0	1,110,000.0	33,500.0	2,010,000.0	23,000.0	1,380,000.0	
B. Production Cost																			
1) Seeding	(kg)	182.3	700.0	127,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	8,507.3	
2) Fertilizers																			
- Urea	(kg)	26.0	147.0	3,822.0	182.3	4,739.3	230.8	6,000.5	279.3	7,261.8	321.9	8,370.2	310.0	8,060.0	310.0	8,060.0	284.1	7,386.3	
- TSP	(kg)	26.0	161.0	4,186.0	199.6	5,190.6	252.8	6,572.0	252.8	6,572.0	252.8	6,572.0	340.0	8,840.0	340.0	8,840.0	301.3	7,832.8	
- MOP	(kg)	26.0	43.0	1,118.0	53.3	1,386.3	67.5	1,755.3	67.5	1,755.3	67.5	1,755.3	90.0	2,340.0	90.0	2,340.0	79.9	2,078.0	
- Compost	(ton)	20,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	
- Others	(LS)	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				229,126.0		231,316.2		234,327.8		235,589.1		236,697.5		239,240.0		239,240.0		237,297.1	
3) Agro-chemicals																			
- Herbicide	(ha)	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	1.0	12,150.0	
- Pesticide	(ha)	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	1.0	10,640.0	
- Hormone	(ha)	3,800.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0		22,790.0	
4) Machinery																			
- Land preparation	(ha)	13,400.0	1.0	13,400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	893.3
- Irrigation by pump	(ha)	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	1.0	23,600.0	
- Transport produce per ton	(ton)	380.0	0.0	0.0	0.0	5.0	1,900.0	8.0	3,040.0	12.0	4,560.0	18.5	7,030.0	33.5	12,730.0	23.0	8,740.0		
Sub-total				37,000.0		23,600.0		25,500.0		26,640.0		28,160.0		30,630.0		36,330.0		33,233.3	
5) Human labor																			
- Hire	(prn/day)	740.0	90.0	66,600.0	34.0	25,160.0	46.0	34,040.0	54.0	39,960.0	62.0	45,880.0	70.0	51,800.0	70.0	51,800.0	65.7	48,642.7	
- Family	(prn/day)	0.0	142.0	0.0	53.0	0.0	73.0	0.0	85.0	0.0	97.0	0.0	109.0	0.0	109.0	0.0	102.7	0.0	
Sub-total			232.0	66,600.0	87.0	25,160.0	119.0	34,040.0	139.0	39,960.0	159.0	45,880.0	179.0	51,800.0	179.0	51,800.0	168.4	48,642.7	
6) Support																			
- Poles and wires	(ha)	70,200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				24,156.3		15,143.3		15,832.9		16,249.0		16,676.4		17,223.0		17,508.0		17,523.5	
Total Cost																			
- Including family labour				612,362.3		357,229.6		386,510.7		404,128.0		421,983.8		442,343.0		448,328.0		443,967.3	
- Excluding family labour				507,282.3		318,009.6		332,490.7		341,228.0		350,203.8		361,683.0		367,668.0		367,994.0	
C. Net Return																			
- Including family labour				-612,362.3		-357,229.6		-86,510.7		-75,872.0		-298,016.2		-667,657.0		-1,561,672.0		-936,032.7	
- Excluding family labour				-507,282.3		-318,009.6		-32,490.7		-138,772.0		-369,796.2		-748,317.0		-1,642,332.0		-1,012,006.0	

Source: Estimated by JICA Survey Team based on data from DOA

Table A 4.6 Target Development Areas by Strategic Crop and DS Division in Each Zone

(1/2)

Cultivation Zone	District	DS Division	Fruit						OFC				TOTAL Increment through Project				
			Banana	Linc	Mango	Papaw	Passion Fruits	Sweet Orange	Chili	Red Onion	Big Onion	Legumes	OFC (ha)		Fruit (ha)		TOTAL (ha)
													Under Irrigation Scheme	Under Agro well	Under Irrigation Scheme	Under Agro well	
CZ-1	Mannar	Manthai West	0	10	50	0	0	0	150	40	20	0	170	40		60	270
		Madu	20	0	10	0	0	0	50	30	50	0	50	80		30	160
	Mullative	Thunukkai	0	0	0	0	0	0	180	10	20	280	480	10		0	490
		Manthai East	0	0	0	0	0	10	450	10	60	130	620	30	10		660
		Oddusuddan	0	0	0	0	0	10	540	20	30	230	800	20	10		830
	Vauniya	Vavuniya town	0	0	20	0	0	0	130	50	30	0	160	50		20	230
		Vavuniya North	0	0	0	0	0	0	10	140	20	0	20	150		0	170
		Vavuniya South	0	0	0	0	0	0	40	0	60	0	60	40		0	100
	Trincomalee	Kuchchiweli	0	0	0	20	0	0	10	400	40	60	110	400		20	530
		Morawewa	0	0	0	0	0	0	0	0	0	160	160	0		0	160
		Town & Gravets	0	0	20	0	0	10	40	10	20	70	130	10		30	170
		Kinniya	20	0	30	0	0	20	0	20	0	10	10	20		70	100
		Muthur	0	0	0	0	0	0	0	10	110	10	0	20	110		0
SUB TOTAL			40	10	130	20	0	50	1,610	840	360	940	2,790	960	20	230	4,000
CZ-2	Ampara	Padiyathalawa	30	20	10	0	0	20	0	0	0	20	20	0		80	100
		Mahaoya	70	0	0	0	0	0	0	0	0	100	100	0		70	170
	Batticaloa	Koralapattu South	0	0	0	0	0	0	0	0	0	330	330	0		0	330
		Koralapattu North	10	0	0	0	0	0	0	90	0	0	10	80		10	100
		Chenkalady	20	0	70	0	0	0	10	0	0	0	0	10		90	100
	Anuradapura	Horowpothana	0	0	140	0	0	0	0	0	0	20	20	0		140	160
		Kahatagasdigiliya	0	0	0	0	0	0	120	0	60	0	180	0		0	180
		Galenbindunuwewa	0	0	40	0	0	0	190	0	20	0	210	0		40	250
		Mahawilachchiya	40	0	40	0	0	0	20	0	0	0	0	20		80	100
		Nuwaragampalatha (Central)	0	0	60	0	0	0	40	0	0	0	0	40		60	100
		Nachchaduwa	0	0	10	0	0	0	30	0	60	0	0	90		10	100
		Rajangana	0	0	0	0	0	0	0	0	0	0	0	0		0	0
		Galnewa	20	0	0	0	0	0	80	0	0	0	0	80		20	100
		Thambuttegama	0	0	0	0	0	0	0	0	0	0	0	0		0	0
		Talawa	0	0	0	0	0	30	0	0	70	0	0	70		30	100
		Nochchiyagama	0	0	30	0	0	0	70	0	0	0	0	70		30	100
		Tirappane	10	0	20	0	0	10	60	0	0	0	0	60		40	100
		Palugaswewa	0	0	0	0	0	0	100	0	0	0	30	70		0	100
		Kakirawa	20	10	0	0	0	0	70	0	0	0	0	70		30	100
		System H	Mahaveli System H	0	0	60	30	0	10	1,650	20	1,210	5,270	8,150	0		100
SUB TOTAL			220	30	480	30	0	70	2,530	20	1,420	5,740	9,050	660	0	830	10,540

**Table A 4.6 Target Development Areas by Strategic Crop and DS Division in Each Zone
(2 / 2)**

Cultivation Zone	District	DS Division	Fruit						OFC				TOTAL Increment through Project				
			Banana	Lime	Mango	Papaw	Passion Fruits	Sweet Orange	Chili	Red Onion	Big Onion	Legumes	OFC (ha)		Fruit (ha)		TOTAL (ha)
													Under Irrigation Scheme	Under Agro well	Under Irrigation Scheme	Under Agro well	
CZ-3	Kurunegala	Galgamuwa	10	30	50	0	0	10	0	0	0	0	0	0		100	100
		Giribawa	0	0	30	10	0	10	10	0	0	40	50	0		50	100
		Ehatuwewa	0	0	0	0	0	0	0	0	0	0	0	0		0	0
		Ambanpola	0	40	50	40	0	10	0	0	0	0	0	0		140	140
		Nikaweratiya	10	0	0	40	0	30	20	0	0	0	0	20		80	100
		Maho	10	0	50	50	0	10	0	0	30	0	0	30		120	150
		Kotawehera	10	0	40	20	0	30	40	0	0	0	40	0		100	140
	Polpithigama	10	0	90	150	0	20	0	10	50	0	0	60		270	330	
	Puttalam	Karuwalagaswewa	0	50	130	50	0	50	40	10	0	330	380	0	280		660
		Nawagattegama	0	0	60	0	0	20	10	0	10	0	10	10		80	100
Anamaduwa		0	30	40	20	0	10	290	0	50	180	520	0		100	620	
Mahakumbukkadawala		0	0	0	0	0	0	100	0	0	0	0	100		0	100	
SUB TOTAL			50	150	540	380	0	200	510	20	140	550	1,000	220	280	1,040	2,540
CZ-4	Badulla	Haliela	30	0	10	0	0	40	0	0	80	0	0	80		80	160
		Welimada	0	0	0	0	20	20	120	10	200	0	90	240		40	370
		Meegahakiwla	0	0	20	0	0	0	0	0	80	0	0	80		20	100
	Maneragala	Badalkumbura	30	10	0	0	0	30	40	0	0	90	130	0		70	200
		Madulla	0	0	10	20	10	50	70	0	0	0	0	70		90	160
		Bibila	0	0	0	0	0	110	30	0	0	0	0	30		110	140
		Buttala	30	0	0	0	10	20	310	0	0	0	10	300		60	370
		Wellawaya	0	0	40	0	0	30	30	0	0	0	30	0		70	100
		Monaragala	0	0	100	0	0	0	0	0	0	0	0	0		100	100
		Siyambaladuwa	0	0	70	0	0	0	30	0	0	0	10	20		70	100
SUB TOTAL			90	10	250	20	40	300	630	10	360	90	270	820	0	710	1,800
TOTAL			400	200	1,400	450	40	620	5,280	890	2,280	7,320	13,110	2,660	300	2,810	18,880

Table A 4.7 Overall Problem Analysis (1/3)

Sector	Major Issue	Issues	Cause	Present Situation
(A) OFC and Fruit	(A1) Low production and productivity	(A1-1) Farmers have less motivation to start cultivation of OFC and fruits.	(A1-1-1) Both farmers and AIs (extension workers) are less business minded on trading farm products and have less knowledge on farm management	<ul style="list-style-type: none"> TOT for famers' business school is conducted by FAO and other organizations, however it is not rooted yet.
			(A1-1-2) There is a risk of wild animal and cattle damage	<ul style="list-style-type: none"> Extensive livestock farming is done in survey area and cattle is allowed to graze in low land paddy field in Yala season 50% of fruits harvested in Uva province are damaged by monkeys Many watch huts are observed in NWP/NCP and they prevent damage from elephants
			(A1-1-3) No regular trader to sell	<ul style="list-style-type: none"> There are regular traders in paddy but not in OFC and fruits
			(A1-1-4) Additional income is needed until harvest (in case of fruit cultivation)	<ul style="list-style-type: none"> Government cultivation loan is not applied to fruit cultivation
		(A1-2) Irrigation water is not sufficient to increase the cultivation area of OFC and fruit	(A1-2-1) Irrigation system is deteriorated in lowland or not available in highland	<ul style="list-style-type: none"> 15% of minor irrigation schemes are abandoned 30 % of agro wells are abandoned
			(A1-2-2) Water management and conservation system is not organized properly	<ul style="list-style-type: none"> Wastage of irrigation water is observed
			(A1-2-3) Water saving irrigation systems, such as micro irrigation are not promoted	<ul style="list-style-type: none"> Farmers are keen in adopting the water saving system but high initial investment cost and inadequate technical guidance affect the situation.
		(A1-3) The quality seed of OFC and planting material for fruit are not available in time and conveniently	(A1-3-1) Delay in seed certification	<ul style="list-style-type: none"> Nearly 6 weeks required for seed certification
			(A1-3-2) Lack of facilities in existing provincial seed farms	<ul style="list-style-type: none"> Need irrigation facilities for 2 farms in NWP Increase the capacity in 1 farm and 2 training centres in Uva Need reconstruction in Batticaloa seed farm in EP
			(A1-3-3) Number and capacity of seed producer are low	<ul style="list-style-type: none"> The systematic technology transfer is not practiced
			(A1-3-4) There is no proper storage to keep seeds produced by farmers	<ul style="list-style-type: none"> Present storage facilities are low quality and there is the damage of insect, small animals and others
		(A1-4) Quality of product is low and not attractive to buyers compared to imported commodity	(A1-4-1) Impurities are included in the product	<ul style="list-style-type: none"> Use of paddy threshers which are not suitable for other crops
	(A1-4-2) There is no proper facilities for drying OFCs		<ul style="list-style-type: none"> Drying on the ground is common practice among farmers 	
	(A2) Ineffectiveness in distribution and trading system	(A2-1) There are unnecessary post-harvest losses	(A2-1-1) Rural roads and farm access roads are damaged or in poor condition	<ul style="list-style-type: none"> 90 % of rural roads is un-paved and needs improvement
			(A2-1-2) No proper packing and transportation system	<ul style="list-style-type: none"> Government has initiated to introduce plastic crates in transportation

Table A 4.7 Overall Problem Analysis (2/3)

Sector	Major Issue	Issue	Cause	Present Situation
			(A2-1-3) The marketing channel system is complicated and many middlemen are involved in the transportation	• Average 3-4 middlemen are involved in the marketing channel
		(A2-2) Shipment of production is not enough for filling truck for economical transportation to the market	(A2-2-1) No collecting point to collect small quantity of product	• Supermarkets have their own collecting centres
			(A2-2-2) Inadequate common trading places such as Dedicated Economic Centres (DECs).	• No DEC in North and East and government has a plan to construct DEC in Puttalam, Karumunai and Kilinochchi newly.
		(A2-3) Systematic forward contract/ buy-back /out-grower are not common practices for OFC and fruits	(A2-3-1) There are no general rules or legislations for forward contract agreement and no written agreement in many occasions.	• Breaking up of forward contract agreement is observed in many occasions.
		(A2-3-2) Less communication between farmer and trader	• The role of relevant government organizations is not satisfactory.	
	(A3) Need improvement in agriculture service provision	(A3-1) The quality of field training and field demonstration are not satisfactory	(A3-1-1) One AI covers large number of farm families	• 1960 farm families are covered by one AI
			(A3-1-2) Less fund allocation for technology transfer	• About Rs.1 million per year per province for training
			(A3-1-3) There is no proper monitoring and evaluation system on field training and field demonstration	• Only few demonstration field days are conducted
			(A3-1-4) Capacity of AI is not satisfactory both in cultivation technology and commercialized farm management.	• AIs get only in service training at provincial level for limited subjects • AIs are busy for administrative works and they have limited time for field works
		(A3-2) There is a gap between farmers needs and actual training	(A3-2-1) There is no organized communication system among relevant Government institutions, private traders and farmers	• Training needs are decided only by AIs
(M) Milk	(M1) Low output in all cattle farming systems	(M1-1) Required amount of feed is not available especially in cropping season	(M1-1-1) Crop by-products are not properly and efficiently utilized	• Around 10 to 15% of crop by-products utilized
			(M1-1-2) High proportion of unproductive animals in herds	• Between 15 to 25% of the herd is milking animals
			(M1-1-3) Fodder and pasture cultivation not practiced	• Less than 1% practice fodder and pasture cultivation
			(M1-1-4) Processed feed not available	• Dairy feed is mostly sold in high producing in wet zone and not available in dry zone

Table A.4.7 Overall Problem Analysis (3/3)

Sector	Major Issue	Issues	Cause	Present Situation
		(M1-2) Slow process in upgrading the milking herds	(M1-1-5) Seasonal density of cattle is grazing land is high	<ul style="list-style-type: none"> Total available grazing land are used by 80% in EP, 70% in NCP, 40% in NWP, 60% in NP and 50% in Uva province for ruminant population
			(M1-2-1) Management system is a bottleneck to Artificial Insemination (AI)	<ul style="list-style-type: none"> Synchronization is not practiced Heat detection is not properly done due to poor knowledge
			(M1-2-2) Non-availability of stud bulls for Natural Mating	<ul style="list-style-type: none"> Quality stud bulls not available, only 1 – 2% use such animals
			(M1-2-3) Loss of semen due to improper cold chain	<ul style="list-style-type: none"> 30% of the area has no proper container to keep semen
			(M1-2-4) Number and technical quality of artificial inseminator is low and mobility is low	<ul style="list-style-type: none"> Training need identified but not rectified and. Shortage of 35% staff. 44% of LDI has motor bike 43% of VS has vehicle
	(M2) Substandard marketing of fresh milk	(M2-1) Inadequate consumption of liquid milk	(M2-1-1) Shelf-life and ease have made powdered milk popular	<ul style="list-style-type: none"> Powder milk share is more than 80%
			(M2-1-2) Low quality of milk	<ul style="list-style-type: none"> Unhygienic quality due to loose restriction of the government and no testing equipment in traders
			(M2-1-3) There is a distance between production place and consumption place (town area)	<ul style="list-style-type: none"> Peri-urban and subsequent land area is used for other purpose There is not enough mobility to sellers
		(M2-2) Under-developed milk marketing system	(M2-2-1) Low capacity of small and medium entrepreneurs	<ul style="list-style-type: none"> Most of the SMCE don't have cooling equipment either equipment to increase shelf-life
			(M2-2-2) Inadequate quality control systems	<ul style="list-style-type: none"> Quality problem identified but not rectified
			(M2-2-3) Seasonal variation in milk production	<ul style="list-style-type: none"> Fluctuate 200% by season
	(M3) Need improvement in veterinary service provision	(M3-1) Weak transfer of technology	(M3-1-1) Training to VS and LDI is not given in the satisfactory level due to the lack of fund	<ul style="list-style-type: none"> Training program provided by central government is mainly focus on the wet zone at present About Rs.1 million per year per province for training
			(M3-2-1) One VS office covering large number of dairy farmers	<ul style="list-style-type: none"> One VS office is covering following number of animals at present EP (6,600 nos.), NCP (8,232 nos.), NWP (8,991 nos.), NP (7,425 nos.) and Uva (7,456 nos.)
(M3-2-2) Lack of mobility and accessibility of farmers and LDI and VS		<ul style="list-style-type: none"> 44% of LDI has motor bike 43% of VS has vehicle 		

**Table A 4.8 Prioritized Approaches and Activities
- Malwanegama (North-Central)**

Priority / Approach	Activities
1. Marketing Approach	<ul style="list-style-type: none"> • Make products attractive with cleanliness and presentation • Ensure the quality standards of the products • Produce appropriate products to meet with the requirements of the relevant markets • Usage of attractive and safer packing • Protect and maintain the natural and authentic standards of the products • Increase the purchasing and marketing centers • Introduce a clear and fair price tags to the products • Supply products according to the needs of the respective areas • Come up with preservation systems to protect the freshness of the products • Establish an efficient transportation system • Obtain consultation servicers on competing in the market mechanism • Adopt value added process • Engage Farmers Organizations in marketing
2. Water and Irrigation Management Approach	<ul style="list-style-type: none"> • Program to identify the water requirement for different/each crops • Program to obtain water in the needy time • Minimize the wastages of water • Maximize the usage of water • Usage of drip irrigation systems • Usage of solar power for drip irrigation • Maximize the usage of agro wells • Maximize the usage of rain water • Maintain/repair the irrigation canals with concrete in time to minimize the wastages • Train and make the farmers aware of the proper and efficient usage of water
3. Financial and Credit Approach	<ul style="list-style-type: none"> • Establish credit scheme through Farmers Organizations • Program for supplying quality seeds and fertilizer at low prices • Program to provide credit at low interest rates • Establish a methodology to obtain credit facilities from financial institutions • Organize small groups to obtain contributions through free labour
4. Training Approach	<ul style="list-style-type: none"> • Obtain advice on the diseases of the crops from the extension officers • Obtain information on the markets and make farmers/ Farmers Organizations aware of them • Finding proper trainers to conduct training programs • Organization training programs on; <ul style="list-style-type: none"> - Land preparations - Selecting seeds according to the respective soil conditions - Selection and usage of chemicals according to the respective seeds - Identification of the quality and standards seeds - Watering needs and methods according to the needs of the various crops - Modern technology and their appropriate usages - Attitude changes of the farmers in favor of involvement in OFCs
5. Organization and Planning Approach	<ul style="list-style-type: none"> • Establish an apex organization of the OFCs farmers • Identification of the needs / quantities/ Facilities such as finance and knowledge and skills with regard to the OFC cultivation • Coordination with other institutions • Enter in to MOUs with relevant government/ private institutions • Preparation of cultivation plans • Adopt proper resources management • Usage of modern and appropriate technology • Improve post harvest methods • Planning marketing programs

Priority / Approach	Activities
6. Policy Intervention Approach	<ul style="list-style-type: none"> • Establish Stronger Farmers Organizations Federation • Study the facts and lobby the policy makers on following themes • A policy on credit facilities for OFCs • A policy on cultivation plan • A policy on stable price for OFCs • A policy on pasture land usage for the dairy • A policy on water distribution and management • A policy on producing / distributing/ marketing quality and standard seeds • A policy on importation of OFCs
7. Minimizing Cost of Production Approach	<ul style="list-style-type: none"> • Increase seed production locally • Identification of the appropriate machinery and usage • Research on traditional farming systems and implement and test the validity of them • Implement integrated pest management system • Utilization of minimum labor force • Identification of suitable and high income crops • Increase the local milk production and consumption • Government intervention in price regulatory mechanisms of seeds • Obtain advice from expert groups of the ways and means to reduce the cost of production • Establish cost effective demonstration plots at farmer levels

Source JICA Survey Team

**Table A 4.9 Prioritized Approaches and Activities
Thiriyay (Eastern)**

Priority / Approach	Activities
1. Water Management Approach	<ul style="list-style-type: none"> • Rehabilitation of dams • Increasing capacity of the tanks (wewa) • Stopping salty water coming to fresh water sources • Constructing wells in the villages to supply water for OFC cultivations • Introduce modern irrigation systems (drip irrigation) to the farmers.
2. Natural Resource Management Approach	<ul style="list-style-type: none"> • Obtaining the services of the forest gourds continually. • Get the displaced people to clear their lands and make the cultivable • Obtain government support to establish electric fence to minimize the wild elephant attacks. • Obtain land and the deeds for the farmers engage in OFC cultivation • Establish separate area for the wild animals (sanctuary)
3. Marketing Approach	<ul style="list-style-type: none"> • Increase the volume of the production of OFCs to attract traders. • Establish a guaranteed minimum price for the OFCs • Establish market places convenient for the farmers and for the traders. • Obtain the support from the NGOs to construct market places • Obtaining the inputs and Training from the experts to increase the quality of the products, technical knowhow for preservative methods and packing. • Workout methods to prevent the farmers from the excessive exploitation by the traders.
4. Extension Services/ Expert Inputs Approach	<ul style="list-style-type: none"> • Identify the problems and the needs of the OFC farmers with the assistance of the Agriculture department and finding the solutions for them • Obtain the support from the NGOs to solve the identified problems and needs of the OFC farmers. • Obtain the continuers support from the Veterinary Department for the dairy farmers • Obtain the continuers support from the Forest Department to minimize the damages from the wild animals. • Obtain the support from the Education Department to motivate children of the OFC farmers.
5. Financial and Credit Approach	<ul style="list-style-type: none"> • Make programs to obtain credit facilities for the OFC farmers from the State Banks. • Obtain the support of the NGOs to get financial/credit facilities for OFCs • Obtain the support of the village level CBOs to get credit facilities for the OFC farmers. • Program to increase income and savings of the OFC farmers through improving the quality of their products. • Purchasing modern equipments from the government institutions to improve the products of the OFCs
6. Training and Awareness Building Approach	<ul style="list-style-type: none"> • Arranging exposure programs for the OFC farmers to share their experiences and to obtain the experiences and knowledge • Obtain support from the NGOs for the training and awareness programs for the OFC farmers on the relevant themes. • Develop village level OFC farmers as trainers on relevant subjects • Make an action plan to determine as how to use these trained farmers services to train other OFC farmers.

Source JICA Survey Team

**Table A 4.10 Prioritized Approaches and Activities
- Saliyawewa (North-Western)**

Priority / Approach	Activities
1. Water Management Approach	<ul style="list-style-type: none"> • Strengthening the Farmers Organizations in Water Management affairs • Deepening the existing tanks (Wewa) • Providing new technical knowledge to the farmers • Repairing and improving the functions of the vital parts of the irrigation structures (such as Sorrowwa/ Waana/ Keth Ela/ Ala Weli/ Amuna/ Bunt of the Tanks) • Establishing a permanent irrigation scheme and a network • Involve farmers to determine the needs and the decisions with regard to the ALL water management affairs • Introducing new water management techniques (such as drip irrigation)
2. Fair Price and Marketing Approach	<ul style="list-style-type: none"> • Providing new technology for the farmer on value added production • Strengthening the Farmers Organizations to engage in collective bargaining in determine the prices with the traders and with the authorities • Establishing markets at the village levels • Improving the infrastructure facilities in the villages such as roads to link to the markets • Improve transport facilities
3. Quality Inputs (Seeds and Cattle) Approach	<ul style="list-style-type: none"> • Providing technical knowledge for the OFC farmers on cultivation methods • Establishing Artificial Insemination (AI) centers in rural areas to promote quality cattle • Obtain Financial/credit facilities from the Government and private institutions • Provide seeds for OFCs at subsidized prices • Making farmers aware of the ill effects of the highbred seeds and introduce alternative means.
4. Chena Farming Approach	<ul style="list-style-type: none"> • Providing alternative land for the Chena farmers to continue with their farming • Introducing alternative crops for the Chena farmers • Establish electric fence and maintain them to minimize the damages from the wild animals • Organize Chena farmers in a strong organization to negotiate with the authorities to protect their farming rights • Make use of Chena farming to minimize the elephant-human conflicts as it has proved, the china farming has helped to ease the conflict
5. Cost of Production Approach	<ul style="list-style-type: none"> • Obtaining technical knowledge • Training and awareness programs on traditional farming systems • Strengthening Farmers Organizations to negotiate with the policy makers and government authorities. • Making farmers aware of the crops and techniques that tolerate the harsh weather conditions

Source JICA Survey Team

**Table A 4.11 Prioritized Approaches and Activities
- Thenagallanda (Uva)**

Priority / Approach	Activities
1. Water Management Approach	<ul style="list-style-type: none"> • 1. Identifying water catchment areas and protect them <ul style="list-style-type: none"> - Make the Irrigation Department aware of these areas through Farmers Organizations • 2. Establishment of agro wells <ul style="list-style-type: none"> - Identify the target population of these wells and inform relevant authorities through Farmers Organizations - Obtain government, NGO and the farmer contributions • 3. Draw the attention of the authorities <ul style="list-style-type: none"> - Discuss the issues at the Farmers Organization - Inform the authorities about the problems/issues through the village level Agriculture Officers - Discuss with the authorities about the problems/issues collectively as a group • 4. Organize the farmers <ul style="list-style-type: none"> - Make farmers aware of the issues/ problems through Farmers Organizations - Get the consent of the farmers for the opinion of the Farmers Organization - Pressurize the relevant authorities to obtain the rights of the farmers
2. Marketing and Fair Price Approach	<ul style="list-style-type: none"> • Make farmers aware of the crops suitable for the different weather and geographical conditions through learned agricultural organizations • Organizing the Farmers Organizations, formulate a program and stand against the massive importation of the OFCs • Establishing storage facilities for the farmers to store their products through the help of government and other NGOs • Prepare a cultivation plan, analyzing the needs and disseminate these information among farmers • Obtain expert advice and information and make farmers aware on proper cultivation methods, marketing techniques and how to increase the quality of the products
3. Intervention of the State and Farmers Organization Approach	<ul style="list-style-type: none"> • Strengthening the Farmers Organizations • Making the farmers aware of the issues • Identify the problems and channel them to the relevant government and other organizations • Obtain all the services and needs (seeds, pesticides ,fertilizer) from the Agrarian Services Department and distribute among farmers • Unite all the Farmers Organizations and pressurize the government to limit the importation of OFCs • Pressurize the government to minimize the ill effects of the middle men in trading
4. Resource Management Approach	<ul style="list-style-type: none"> • Establishing local seeds farms • Preparing program by the government to supply cattle suitable for the respective weather and geographical conditions • Conducting training programs on proper dairy farming • Program for supplying agricultural equipments to the farmers at subsidized price or without charge • Preparing a plan by the government in consultation with the farmers Organization in proper utilization of the land and reservation pasture land
5. Training, Awareness Building and Knowledge Approach	<ul style="list-style-type: none"> • Organize training Programs utilizing the knowledge and experiences of the Agricultural Officers and experienced farmers on <ul style="list-style-type: none"> • Water management • Animal husbandry • Crop • New techniques • Training of Trainers at the village levels
6. Cost of Production Approach	<ul style="list-style-type: none"> • Making farmers aware giving training on of the low cost • Proper utilization of labor • Minimization of machineries on traditional farming methods • Utilization of cattle • Increase the production of local seeds • Utilization of compost fertilizer • Utilization of locally made pesticides • Traditional 'kem' systems • Reduce the usage of foreign seeds and fertilizer

Source JICA Survey Team

**Table A 4.12 Prioritized Approaches and Activities
- Periyapandivirichchan (Northern)**

Priority / Approach	Activities
1. Water Management Approach	<ul style="list-style-type: none"> • Deepen the existing wells • Construct new wells • Repair/rehabilitate abandoned tanks • Link mother tank to the sub tanks
2. Market and Marketing Approach	<ul style="list-style-type: none"> • Coordinate with farmers and collect their products • Identify main market for the producers to sell their products at high prices • Construct collecting centers for milk and OFCs • Linkage these centers with markets • Introduce crops that suit to the respective climatic conditions to ensure continuous supply • Bring marketing/ purchasing companies from outside
3. Training, Knowledge, Motivation Approach	<ul style="list-style-type: none"> • Start seminars/ discussions among village people on the subject matters • Train youth at village levels in agriculture and dairy • Make youth aware of new crops and provide inputs such as travel costs to attain training • Organize exposure visits for farmers to get new knowledge/ experience in OFC cultivation and dairy
4. Economic Development of Re-settlers Approach	<ul style="list-style-type: none"> • Get support from Government and NGOs • Introduce self employment and home gardening • Provide loans through banks and CBOs • Introduce crops with low investments and high returns • Provide distress loans through government and NGOs
5. Land Approach	<ul style="list-style-type: none"> • Identify available and underutilized land with the RDS and Farmers Organizations and inform the authorities • Inform the government offices of the needs of the land for the farmers • Organize tests through the government institutions to verify the suitability of the soil for cultivation • Provide subsidies to develop the land to a cultivable status • Identify grass land and reserve them for cattle rearing
6. Service Provision Approach	<ul style="list-style-type: none"> • Identify and appeal to the Agriculture Officers • Organize Training of Trainers (TOT) programs for the leaders of the Farmers Organizations • Organize Training programs for the other farmers and obtain the service from TOT participants • Prepare a monitoring plan to see whether the training is take place • Organize exposure tour for the farmers to see new techniques on farming • Introduce value added production techniques for the farmers
7. Inputs Approach	<ul style="list-style-type: none"> • Identify profitable crops and introduce to the farmers • Establish nurseries to produce quality plants • Provide training in cultivation for the farmers

Source JICA Survey Team

Table A 5.1 Screening of the Irrigation Schemes

S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro- ecology/ Zone	Command Area (Ha)	Storage Capacity (MCM)		Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
										Anicut	Yala (OFC)	Maha(Paddy)	Yala (OFC)		
1	EP	Ampara	Padiyatalawa	Paranapadiyatalawa Tank	Minor		1.30	IL2	73.00	0.10	61.00	20.00	Qualified		
2				Talapitiya Oya Anicut		Data not available	142.45	IL2	81.00	Anicut	81	76		Disqualified due to less availability of water	
3			Mahaoya	Aranthalawa Anicut		Data not available									
4				Bandirakka Tank & Canal System		Data not available									
5				Borapola Tank	Medium		5.80	IL2	81.00	2.30	81.00	76.00	Qualified		
6				Koonwinna Tank		Data not available									
7				Kudaharasgala Tank		Data not available									
8				Tampitiya Tank & Canal System	Medium		142.50	IL2	174.00	2.10	174.00	174.00	Qualified		
9		Batticaola	KP South (Kiran)	Athikattukulam Tank	Minor		1.81	DL2b	40.00	0.28	39	5	Qualified		
10				Kudumpimlai Tank	Minor		2.07	DL2b	24.00	0.22	24	5	Qualified		
11				Meeranakadavai Tank	Minor		4.14	DL2b	48.00	0.59	48	10		Disqualified due to less availability of water for crop expansion	
12				Pallutheevuchchenai Tank	Minor	Data not available									
13				Uthuchchenai Tank	Minor	Data not available									
14				Vahaneri Tank	Major		10.90	DL2b	3,441.00	16.60	3441	1617	Qualified		
15				Kilangupallai Anicut	Minor		2.07	DL2b	50.00	Anicut	48	6		Disqualified due to less availability of water for crop expansion	
16				Koraveli Tank	Minor		2.07	DL2b	20.00	0.25	20	5		Disqualified due to less availability of water for crop expansion	
17				Tharanai	Minor		1.04	DL2b	53.00	0.64	24	3		Disqualified due to less availability of water for crop expansion	
18				Vadamunai tank	Medium		20.20	DL2b	153.00	5.24	73	18		Disqualified due to less availability of water for crop expansion	
19			KP North (Vaharai)	Aalankulam Tank	Minor		1.55	DL2b	61.00	0.12	30	4	Qualified		
20				Kerumadukulam	Minor		1.55	DL2b	40.00	0.12	30	4		Disqualified due to less availability of water for crop expansion	
21				Kunchankulam Tank	Minor		1.81	DL2b	40.00	0.14	28	5		Disqualified due to less availability of water for crop expansion	
22				Palaiyadi odai Tank	Minor	Data not available									
23				Panichchayadi kulam Tank	Minor		2.07	DL2b	40.00	0.23	40	8	Qualified		
24				Verugal Aaru Scheme	Minor	Data not available									
25				Manikkan kulam	Minor		2.07	DL2b	50.00	0.62	48	8		Disqualified due to less availability of water for crop expansion	
26				Thonithaddamadu kulam	Minor		2.07	DL2b	52.00	0.63	48	8		Disqualified due to less availability of water for crop expansion	
27			Chenkalady (Eravu)	Mavalai Tank	Minor		2.33	DL2b	61.00	0.20	41	4		Disqualified due to less availability of water for crop expansion	
28				Panichaiyady Tank	Minor		2.07	DL2b	20.00	0.25	20	3		Disqualified due to less availability of water for crop expansion	
29				Pulldumadattank	Minor		2.33	DL2b	18.00	0.20	18	6		Disqualified due to less availability of water for crop expansion	
30				Puthampirtank	Minor		3.11	DL2b	40.00	0.25	40	10		Disqualified due to less availability of water for crop expansion	
31				RKM Tank	Minor	Data not available									
32				Sodayan Tank	Minor		1.30	DL2b	38.00	0.12	30	4		Disqualified due to less availability of water for crop expansion	
33				Thapillavelly Tank	Minor		2.07	DL2b	26.00	0.13	26	3		Disqualified due to less availability of water for crop expansion	
34				Aveddiyaveli tank	Minor		1.55	DL2b	40.00	0.49	36	5		Disqualified due to less availability of water for crop expansion	
35				Illukkupothanai	Minor		1.30	DL2b	16.00	0.20	16	4		Disqualified due to less availability of water for crop expansion	
36				Inginiyamadu	Minor		1.30	DL2b	53.00	0.64	30	4		Disqualified due to less availability of water for crop expansion	
37				Kayankulam	Minor		1.81	DL2b	12.00	0.15	12	3		Disqualified due to less availability of water for crop expansion	
38				Kurukkanmadu	Minor		1.30	DL2b	77.00	0.94	30	4		Disqualified due to less availability of water for crop expansion	
39				Lavanai	Minor		1.30	DL2b	24.00	0.30	24	4		Disqualified due to less availability of water for crop expansion	
40				Marappalam	Minor		2.33	DL2b	30.00	0.37	30	4		Disqualified due to less availability of water for crop expansion	
41				Pullumalai		Data not available									
42				Tharapillaveli	Minor		2.07	DL2b	26.00	0.32	26	3		Disqualified due to less availability of water for crop expansion	
43		Trincomalee	Kuchchaweli	Neelapanikkan kulam		Data not available									
44				Kalkodangu Tank		Data not available									
45				Adanalikathan kulam	Minor		2.07	DL1d	71.00	0.20	28	5		Disqualified due to less availability of water for crop expansion	
46				Alan kulam	Minor		3.11	DL1d	73.00	0.12	36	8	Qualified		
47				Ehandamurippu Kulam		Data not available									
48				Ilavan Kulam		Data not available									
49				Iluppai kulam	Minor		2.59	DL1d	10.00	0.12	10	6		Disqualified due to less availability of water for crop expansion	
50				Kallituppai	Minor		3.37	DL1d	17.00	0.21	17	8		Disqualified due to less availability of water for crop expansion	
51				Kangani kulam	Minor		2.33	DL1d	61.00	0.75	27	6		Disqualified due to less availability of water for crop expansion	
52				Kottu kulam	Minor		1.81	DL1d	16.00	0.20	16	6	Qualified		

S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro-ecology Zone	Command Area (Ha)	Storage Capacity (MCM) ¹	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
											Maha (Paddy)	Yala (OFC)		
53				Maduwa Kulam		Data not available								
54				Myilan kulam & Channel system	Minor		2.33	DLId	32.00	0.39	27	6		Disqualified due to less availability of water for crop expansion
55				Nayadicha Murippu Tank	Minor		3.11	DLId	44.00	0.54	24	5		Disqualified due to less availability of water for crop expansion
56				Pallechchenai	Minor		2.85	DLId	55.00	0.67	33	7		Disqualified due to less availability of water for crop expansion
57				Parisnoddai kulam	Minor		2.07	DLId	24.00	0.30	24	5		Disqualified due to less availability of water for crop expansion
58				Periya Elumpurukki Kulam		Data not available								
59				Periya Kulam		Data not available								
60				Periyamathuran kulam	Minor		2.59	DLId	61.00	0.74	30	6	Qualified	
61				Pokkan kulam		Data not available								
62				Salanamadu Tank		Data not available								
63				Samalan kulam	Minor		2.85	DLId	44.00	0.53	39	9		Disqualified due to less availability of water for crop expansion
64				Samara kulam	Minor		1.55	DLId	14.00	0.17	14	4		Disqualified due to less availability of water for crop expansion
65				Saththannadu kulam	Minor		4.66	DLId	50.00	0.62	50	12		Disqualified due to less availability of water for crop expansion
66				Savi Aru Anicut -01		Data not available								
67				Savi Aru Anicut -02		Data not available								
68				Sinna Elumpurukki Tank	Minor		2.07	DLId	32.00	0.39	24	5		Disqualified due to less availability of water for crop expansion
69				Sinnadan kulam	Minor		1.04	DLId	26.00	0.32	14	3		Disqualified due to less availability of water for crop expansion
70				Sinnamathuran kulam	Minor		2.07	DLId	14.00	0.17	14	5		Disqualified due to less availability of water for crop expansion
71				Vadali kulam	Minor		1.04	DLId	15.00	0.18	14	3		Disqualified due to less availability of water for crop expansion
72				Vannathi kulam & Channel system	Minor		2.33	DLId	44.00	0.54	27	6		Disqualified due to less availability of water for crop expansion
73				Velang kulam	Minor		0.78	DLId	15.00	0.19	11	2		Disqualified due to less availability of water for crop expansion
74				Vilan Kulam	Minor		1.04	DLId	14.00	0.17	14	3		Disqualified due to less availability of water for crop expansion
75				Yan oya scheme - Anicut	Major		1,497.00	DLId	689.00	Anicut	375	94	Qualified	
76		Morawewa		Anicut in Kambakuttawewa		Data not available								
77				Ehbandiwewa	Medium		15.54	DLId	86.00	1.20	96	73	Qualified	
78				Ilanthai kulam		Data not available								
79				Kakkamodai Tank	Minor		Data not available							
80				Kithul uthuwa irrigation Scheme	Minor		2.59	DLId	61.00	0.75	40	12	Qualified	
81				Kutkut Kulam		Data not available								
82				Paliyabandi wewa	Minor		3.11	DLId	40.00	0.49	40	19	Qualified	
83				Pan madawachiya Tank & Spill	Minor		7.00	DLId	65.00	0.79	65	33	Qualified	
84				Parayan kulam		Data not available								
85				Rotawewa	Minor		4.92	DLId	79.00	0.97	79	23	Qualified	
86				Veppan kulam	Minor		3.37	DLId	44.00	0.53	44	16	Qualified	
87				Mahadivulwewa	Major		1,398.60		563.00	20.20	563	484	Qualified	
88				Navatkulam	Minor		7.00	DLId	19.00	0.23	19	22		Disqualified due to less availability of water for crop expansion
89				Nochechi kulam	Minor		2.85	DLId	30.00	0.37	30	13		Disqualified due to less availability of water for crop expansion
90				Pankulam	Minor		4.14	DLId	80.00	0.98	65	19		Disqualified due to less availability of water for crop expansion
91				Ralapanawewa	Minor		2.85	DLId	57.00	0.69	44	13		Disqualified due to less availability of water for crop expansion
92				Thimbirowewa	Minor		2.59	DLId	19.00	0.23	19	12		Disqualified due to less availability of water for crop expansion
93				Namalwatha Tank	Minor		Data not available							Disqualified due to less availability of water for crop expansion
94			Town & Gravets	Andankulam	Medium		12.30	DL2b	183.00	2.00	183	92	Qualified	
95				Iluppai Kulam	Minor		1.30	DL2b	6.00	0.07	6	3		Disqualified due to less availability of water for crop expansion
96				Katkat Kulam	Minor		2.85	DL2b	68.00	0.83	33	7	Qualified	
97				Manganai Kulam	Minor		20.72	DL2b	53.00	0.64	53	52	Qualified	
98				Maraerichan Kulam	Minor		1.30	DL2b	27.00	0.33	15	3		Disqualified due to less availability of water for crop expansion
99				Periya muthaliyar Kulam	Minor		Data not available							
100				Sinna Andankulam	Minor		1.04	DL2b	3.00	0.04	3	3		Disqualified due to less availability of water for crop expansion
101				Sinna Muthaliyar kulam	Minor		2.33	DL2b	29.00	0.36	27	6		Disqualified due to less availability of water for crop expansion
102				Sirupppity	Minor		2.59	DL2b	42.00	0.52	30	6		Disqualified due to less availability of water for crop expansion
103				Velveri kulam	Minor		2.07	DL2b	35.00	0.43	24	5	Qualified	
104				Vilan Kulam	Minor		2.85	DL2b	40.00	0.49	33	7		Disqualified due to less availability of water for crop expansion

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S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro-ecology Zone	Command Are (Ha)	Storage Capacity (MCM) ⁸	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
											Maha (Paady)	Yala (OFC)		
105				Illupaikulam	Minor		1.30	DL2b	6.00	0.07	6	3		Disqualified due to less availability of water for crop expansion
106			Kinniya	Ithai Kulam	Minor		1.30	DL2	24.00	0.30	20	4		Disqualified due to less availability of water for crop expansion
107				Kurankupanchan	Medium		13.70	DL2	202.00	3.50	202	30	Qualified	
108				Naduoothu Kulam	Minor		2.07	DL2	32.00	0.39	32	6		Disqualified due to less availability of water for crop expansion
109				Thuvarakulam Tank	Minor		1.30	DL2	32.00	0.39	20	4		Disqualified due to less availability of water for crop expansion
110				Vallan Kulam	Minor		0.78	DL2	28.00	0.34	12	2		Disqualified due to less availability of water for crop expansion
111				Manirasan kulam	Minor		3.37	DL2	65.00	0.79	53	11		Disqualified due to less availability of water for crop expansion
112				Panichchan kulam	Minor		3.37	DL2	74.00	0.90	53	11		Disqualified due to less availability of water for crop expansion
113				Sungankuli	Minor		2.07	DL2	61.00	0.74	32	6		Disqualified due to less availability of water for crop expansion
114			Muthur	Illankanthai Tank	Medium		5.70	DL2	141.00	1.30	141	21	Qualified	
115				Allai Raina Anicut	Minor	Data not available								Disqualified due to less availability of water for crop expansion
116				Kunchadampam kulam	Minor		1.30	DL2	11.00	0.13	11	4		Disqualified due to less availability of water for crop expansion
117				Ullai Kulam	Medium		2.60	DL2	87.00	0.70	87	13	Qualified	
118				Vethaitivu Anicut	Minor	Data not available								
119	NWP	Kurunegala	Galgamuwa	Aluth wewa	Minor		0.39	DL1b	6.00	0.08	5	2		Disqualified due to less availability of water for crop expansion
120				Amunukole wewa	Minor		3.37	DL1b	28.00	0.35	28	15		Disqualified due to less availability of water for crop expansion
121				Kotagama wewa	Minor		0.39	DL1b	3.00	0.03	3	1		Disqualified due to less availability of water for crop expansion
122				Kumbukwewa Tank	Minor		1.24	DL1b	13.00	0.16	12	3		Disqualified due to less availability of water for crop expansion
123				Pahala Poolachchiya Waragoda yaya (Tract)	Minor		1.42	DL1b	3.00	0.04	3	4		Disqualified due to less availability of water for crop expansion
124				Walas wewa		Data not available								
125			Giribawa	Aluth wewa	Minor		0.78	DL1b	15.00	0.18	8	2		Disqualified due to less availability of water for crop expansion
126				Andiya kottuwa wewa	Minor		1.04	DL1b	15.00	0.19	10	3		Disqualified due to less availability of water for crop expansion
127				Bathala wewa	Minor		1.04	DL1b	17.00	0.21	10	3		Disqualified due to less availability of water for crop expansion
128				Giriba wewa	Minor		7.00	DL1b	36.00	0.44	36	17		Disqualified due to less availability of water for crop expansion
129				Hetiwarachigama wewa	Minor		0.78	DL1b	17.00	0.21	6	1		Disqualified due to less availability of water for crop expansion
130				Ihala Giriba wewa	Minor		7.00	DL1b	34.00	0.42	34	17		Disqualified due to less availability of water for crop expansion
131				Ihala Pothana wewa	Minor	Data not available								
132				Ihala wewa	Minor		0.26	DL1b	5.00	0.06	2	0		Disqualified due to less availability of water for crop expansion
133				Kivul wewa	Minor		0.26	DL1b	4.00	0.05	2	0		Disqualified due to less availability of water for crop expansion
134				Kuda galkadawala wewa	Minor		3.37	DL1b	18.00	0.22	18	8		Disqualified due to less availability of water for crop expansion
135				Madawalagam wewa	Minor		1.04	DL1b	18.00	0.22	8	2		Disqualified due to less availability of water for crop expansion
136				Marathangala wewa	Minor	Data not available								
137				Meda wewa	Minor		0.52	DL1b	11.00	0.14	4	1		Disqualified due to less availability of water for crop expansion
138				Pothana wewa	Minor		2.07	DL1b	26.00	0.32	20	5		Disqualified due to less availability of water for crop expansion
139				Radha wewa	Minor		0.52	DL1b	4.00	0.05	4	1		Disqualified due to less availability of water for crop expansion
140				Siyambalagas wewa	Minor		1.04	DL1b	19.00	0.24	10	3		Disqualified due to less availability of water for crop expansion
141				Thanbutta wewa	Minor		4.40	DL1b	57.00	0.69	43	11	Qualified	
142				Thammitagama wewa	Minor	Data not available								
143				Wandugala wewa	Minor	Data not available								
144				Wara wewa	Minor		1.04	DL1b	30.00	0.37	10	3		Disqualified due to less availability of water for crop expansion
145				Wewarannawattiya wewa	Minor		1.30	DL1b	32.00	0.39	10	2		Disqualified due to less availability of water for crop expansion
146				Aliyawattuna wewa	Minor		2.33	DL1b	32.00	0.39	23	6		Disqualified due to less availability of water for crop expansion
147				Thammittiyawa	Minor		2.66	DL1b	57.00	0.44	57	35	Qualified	
148				Gurulupittigama	Minor		0.26	DL1b	21.00	0.25	2	0		Disqualified due to less availability of water for crop expansion
149				Ihala Marathankadawela	Minor		1.81	DL1b	42.00	0.52	14	3		Disqualified due to less availability of water for crop expansion
			Ehetuwewa	No tanks										
			Ambanpola	No tanks		Data not available								
150			Nikaweratiya	Daluggolla	Minor		0.26	IL3	7.00	0.09	5	2		Disqualified due to less availability of water for crop expansion
151				Dewale wewa	Minor		0.52	IL3	3.00	0.04	3	3		Disqualified due to less availability of water for crop expansion
152				Diyagama	Minor		2.33	IL3	8.00	0.10	8	13		Disqualified due to less availability of water for crop expansion
153				Galagedara	Minor		3.37	IL3	16.00	0.20	16	21		Disqualified due to less availability of water for crop expansion
154				Galapitiyagama	Minor		2.07	IL3	4.00	0.05	4	6		Disqualified due to less availability of water for crop expansion

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S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro- ecology Zone	Command Are (Ha)	Storage Capacity (MCM) ¹	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
											Maha(Paddy)	Yala (OFC)		
155				Hulgalla	Minor		1.55	IL3	6.00	0.07	6	10		Disqualified due to less availability of water for crop expansion
156				Kaluwennawa	Minor		0.52	IL3	10.00	0.12	9	3		Disqualified due to less availability of water for crop expansion
157				Kiridigalla	Minor		9.58	IL3	5.00	0.06	5	8		Disqualified due to less availability of water for crop expansion
158				Kumbukwewa	Minor		1.30	IL3	6.00	0.07	6	8		Disqualified due to less availability of water for crop expansion
159				Mawathagama	Minor		2.07	IL3	18.00	0.22	18	13		Disqualified due to less availability of water for crop expansion
160				Nabadawa	Minor		0.78	IL3	8.00	0.10	8	5		Disqualified due to less availability of water for crop expansion
161				Olupaliyawa	Minor		7.00	IL3	10.00	0.12	10	16		Disqualified due to less availability of water for crop expansion
162				Pahalagalapittiyagama	Minor		1.30	IL3	11.00	0.14	11	8		Disqualified due to less availability of water for crop expansion
163				Thanagolla	Minor		1.04	IL3	6.00	0.07	6	6		Disqualified due to less availability of water for crop expansion
164				Wasiwewa	Minor		3.11	IL3	12.00	0.15	12	19		Disqualified due to less availability of water for crop expansion
		Mahawa		No tanks										Disqualified due to less availability of water for crop expansion
165		Kotawehera		Ahubadagama wewa	Minor		0.26	IL3	12.00	0.15	4	1		Disqualified due to less availability of water for crop expansion
166				Aluthgama Maha wewa	Minor		3.37	IL3	24.00	0.30	24	11		Disqualified due to less availability of water for crop expansion
167				Aluthgame Rathmale wewa	Minor		2.33	IL3	2.00	0.02	3	5		Disqualified due to less availability of water for crop expansion
168				Awulgama wewa	Minor	Data not available								
169				Berawa wewa	Minor		0.26	IL3	6.00	0.07	4	1		Disqualified due to less availability of water for crop expansion
170				Divulawa wewa	Minor	Data not available								
171				Gatila wewa	Minor		0.26	IL3	5.00	0.06	4	1		Disqualified due to less availability of water for crop expansion
172				Hudaliyawa Maha wewa	Minor		7.77	IL3	36.00	0.44	36	24	Qualified	
173				Ihal Bedura wewa	Minor	Data not available								Disqualified due to less availability of water for crop expansion
174				Kaluwage wewa	Minor		1.04	IL3	8.00	0.10	8	6		Disqualified due to less availability of water for crop expansion
175				Karawadeniya kuda wewa	Minor		1.55	IL3	13.00	0.16	13	10		Disqualified due to less availability of water for crop expansion
176				Karuwalagaha watta wewa	Minor		0.26	IL3	3.00	0.04	3	2		Disqualified due to less availability of water for crop expansion
177				Karuwalagaha wewa	Minor		0.26	IL3	3.00	0.03	3	2		Disqualified due to less availability of water for crop expansion
178				Kondiyawa wewa	Minor	Data not available								
179				Kudarawaliya Maha wewa	Minor		0.78	IL3	18.00	0.22	9	2		Disqualified due to less availability of water for crop expansion
180				Millagolla wewa	Minor		0.52	IL3	1.00	0.01	2	2		Disqualified due to less availability of water for crop expansion
181				Moragolla Aluth wewa	Minor		2.59	IL3	16.00	0.19	16	16	Qualified	
182				Nabadeyaya wewa	Minor		0.26	IL3	2.00	0.03	2	1		Disqualified due to less availability of water for crop expansion
183				Palugaha wewa	Minor		0.52	IL3	4.00	0.04	4	3		Disqualified due to less availability of water for crop expansion
184				Pathkalawettiya-Patapiliyadoda	Minor		0.26	IL3	3.00	0.04	3	2		Disqualified due to less availability of water for crop expansion
185				Ugurassawa wewa	Minor		3.11	IL3	17.00	0.20	17	10		Disqualified due to less availability of water for crop expansion
186				Weerapaliyawa wewa	Minor	Data not available								
187		Polpitiyagama		Palugaswewa	Minor		0.78	DL1b	12.00	0.15	12	2		Disqualified due to less availability of water for crop expansion
188				Palugolla-A	Minor		0.78	DL1b	12.00	0.15	12	2		Disqualified due to less availability of water for crop expansion
189				Palugolla-B	Minor		0.26	DL1b	8.00	0.09	5	1		Disqualified due to less availability of water for crop expansion
190	Puttalam	Karuwalagaswewa		Neelabemma Scheme	Major		1,830.00	DL1b	746.00	14.80	746	388	Qualified	
191				Aluthgama	Minor		0.26	DL1b	2.00	0.01	1	0		Disqualified due to less availability of water for crop expansion
192				Dangaswewa	Minor		0.54	DL1b	26.00	0.06	5	1		Disqualified due to less availability of water for crop expansion
193				Ihalapaliyankulama	Minor		4.61	DL1b	50.00	0.76	45	9		Disqualified due to less availability of water for crop expansion
194				Ipologama	Minor		0.73	DL1b	12.00	0.10	7	1		Disqualified due to less availability of water for crop expansion
195				Kudamadawachchiya	Minor		0.75	DL1b	7.00	0.06	5	2		Disqualified due to less availability of water for crop expansion
196				Kumbukwewa	Minor		2.02	DL1b	14.00	0.14	11	4		Disqualified due to less availability of water for crop expansion
197				Munamalgaswewa	Medium		3.37	DL1b	85.00	0.04	3	5		Disqualified due to less availability of water for crop expansion
198				Murukwattawewa	Minor		7.25	DL11	18.00	0.32	26	18		Disqualified due to less availability of water for crop expansion
199				Pahalapaliyankulama	Minor		6.73	DL1b	71.00	0.66	54	13		Disqualified due to less availability of water for crop expansion
200				Paligama	Minor		6.01	DL3	33.00	0.43	35	15		Disqualified due to less availability of water for crop expansion
201				Rabawewa	Minor		0.98	DL1b	16.00	0.12	10	2		Disqualified due to less availability of water for crop expansion
202				Ranawarapitiya	Minor		2.10	DL1b	16.00	0.21	17	4		Disqualified due to less availability of water for crop expansion
203				Devanuwaru	Minor		14.50	DL1b	77.00	0.31	25	36	Qualified	
204				Egodapitiya	Minor		11.14	DL1b	61.00	1.01	82	28	Qualified	
205				Karuwalagaswewa	Minor		10.36	DL1b	48.00	0.31	25	26	Qualified	

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											Maha(Paddy)	Yala (OFC)		
206				Madogama	Minor		11.45	DL1b	40.00	0.43	36	29	Qualified	
207				Pahariya	Minor		14.50	DL1b	71.00	0.66	54	36	Qualified	
208				Pahugasgame	Minor		8.86	DL3	33.00	0.43	35	22	Qualified	
209				Pavaddamadawa	Minor		14.25	DL11	38.00	0.62	51	36	Qualified	
210				Saliya-A	Minor		2.54	DL1b	16.00	0.21	17	6	Qualified	
211				Saliya-B	Minor		2.33	DL1b	18.00	0.11	9	6	Qualified	
212				Saliya-C	Minor		6.35	DL1b	26.00	0.46	37	16	Qualified	
213				Tabbowa	Major		388.50	DL11	847.00	18.50	847	525	Qualified	
214				Thambapanniya	Minor		24.09	DL1b	73.00	0.53	44	60	Qualified	
215				Virapura	Minor		5.18	DL1b	32.00	0.18	15	13	Qualified	
216		Nawagattegama		Aluthwewa	Minor	Data not available								
217				Maha Andarawewa Tank	Medium		33.70	DL1b	151.00	2.10	102	25	Qualified	
218				Gallawa wewa	Minor	Data not available								
219				Konkadawela Tank	Minor	Data not available								
220				Mahadombakaththawawewa	Minor	Data not available								
221				Sarasgediya wewa	Minor	Data not available								
222		Anamadawa		Ingirimettiya Tank	Individual		388.00	DL1b	2,643.00	66.50	2643	1269	Qualified	
223		Mahakumbukkada		Andigamawalpanawa	Minor		1.84	DL1b	15.00	0.18	15	9		Disqualified due to less availability of water for crop expansion
224				Dangaswewa	Minor		0.44	DL1b	3.00	0.03	3	1		Disqualified due to less availability of water for crop expansion
225				Caluliya	Minor		0.80	DL1b	12.00	0.15	12	3		Disqualified due to less availability of water for crop expansion
226				Jeyarajapura	Minor		0.75	DL1b	10.00	0.12	10	2		Disqualified due to less availability of water for crop expansion
227				Kivla	Minor		0.54	DL1b	1.00	0.07	6	2		Disqualified due to less availability of water for crop expansion
228				Ratmalgaswewa	Minor		0.80	DL1b	40.00	0.49	11	3		Disqualified due to less availability of water for crop expansion
229	NCP	Anuradhapura	Horowpothana	Kakulbendadigiliya wewa	Minor		1.30	DL1e	67.00	0.81	0	0		Disqualified due to less availability of water for crop expansion
230				Lewapathihtha Wewa	Minor		2.33	DL1e	38.00	0.47	38	15	Qualified	
231				Mora wewa	Minor		0.52	DL1e	34.00	0.42	12	3		Disqualified due to less availability of water for crop expansion
232				Rasnaka wewa	Minor	Data not available								
233				Walawidda wewa	Minor	Data not available								
234				Welawa Pothana wewa	Minor		1.04	DL1e	12.00	0.71	24	6	Qualified	
235				Wahalkada	Major		81.60	DL1e	810.00	53.00	810	308		Disqualified due to less availability of water for crop expansion
236		Kahatagasdigiliya		Diganhalmillawa Pahala olugolawa	Minor		3.89	DL1b	63.00	0.76	61	12	Qualified	
237				Divul wewa - Divul wewa	Minor		2.59	DL1b	57.00	0.69	61	16	Qualified	
238				Ellawewa - Kuda wewa	Minor	Data not available			4.00					
239				Kanadara Rathmale - Rathmale wewa	Minor		3.63	DL1b	41.00	0.50	41	11	Qualified	
240				Kelani wewa - Dahanakwewa	Minor	Data not available								
241				Kirigollewa - Kirigollawa wewa	Minor	Data not available								
242				Kokebe wewa	Medium		2.33	DL1b	92.00	1.18	55	15	Qualified	
243				Konnaduwa - Divulwewa - Kuda wewa	Minor		2.59	DL1b	57.00	0.75	61	16	Qualified	
244				Konnaduwa - Kuda wewa	Minor		0.78	DL1b	4.00	0.04	0	0		Disqualified due to less availability of water for crop expansion
245				Koon wewa	Minor		4.40	DL1b	69.00	0.84	69	27	Qualified	
246				Kudapattiyawa - Mahadivul wewa	Minor	Data not available								
247				Makichawa - Kukulewa wewa	Minor	Data not available								
248				Meekumbuk wewa meeminawala wewa	Minor		1.81	DL1b	35.00	0.43	35	8		Disqualified due to less availability of water for crop expansion
249				Nekutunuwewa - Ganguru wewa	Minor		1.86	DL1b	36.00	0.94	29	6		Disqualified due to less availability of water for crop expansion
250				Nihgollakada - Nelugollakada wewa	Minor		4.79	DL1b	40.00	0.63	52	15	Qualified	
251				Palipothana - Palipothana wewa	Minor	Data not available								
252				Panwella - Parandarellawa wewa	Minor		4.66	DL1b	33.00	0.78	64	29	Qualified	
253				Parandarellawa Ihakumbukgollewa wewa	Minor	Data not available								
254				Rampathgama - Agraya wewa	Minor	Data not available								
255				Rampathvila - Kuda wewa	Minor		1.17	DL1b	10.00	0.12	10	4		Disqualified due to less availability of water for crop expansion
256				Ranpathwila - Ranpathwila wewa	Medium		3.11	DL1b	107.00	2.49	48	10		Disqualified due to less availability of water for crop expansion
257				Sanpathgama - Ethawatuna wewa	Minor	Data not available								

Table A 5.1 Screening of the Irrigation Schemes

S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro-ecology Zone	Command Are (Ha)	Storage Capacity (MCM) ⁸	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks	
											Maha(Paddy)	Yala (OFC)			
258				Thalaththewa - Pattilapu wewa	Minor		3.24	DL1b	38.00	0.47	38	20	Qualified		
259				Thalaththewa - Thalaththewa wewa	Minor	Data not available									
260				Thuruturagama Mahakulumeenakada wewa	Minor		3.89	DL1b	67.00	0.82	61	12	Qualified		
261				Tikanpothana Heen ela anicut	Minor	Data not available									
262				Weeththawa - Alpath wewa	Minor		2.85	DL1b	14.00	0.17	14	9	Qualified		
263			Calenbindunuwewa	Aluthdivul Wewa	Medium		16.20	DL1b	115.00	1.73	115	48		Disqualified due to less availability of water for crop expansion	
264				Manankatiya Tank	Major		61.60	DL1b	427.00	5.94	427	260	Qualified		
265			Mahawilachchiya	Andaradigiliya wewa	Minor	Data not available									
266				Godarathmalgaha wewa	Minor	Data not available									
267				Kadurupitiya Wewa	Minor		1.97	DL1b	3.00	0.15	12	3		Disqualified due to less availability of water for crop expansion	
268				Kivulekade wewa	Minor		1.17	DL1b	73.00	0.89	14	2		Disqualified due to less availability of water for crop expansion	
269				Kudakimbulewa wewa	Minor		2.59	DL1b	43.00	0.52	20	4		Disqualified due to less availability of water for crop expansion	
270				Katupuliyankulama wewa	Minor		1.68	DL1b	16.00	0.20	13	3		Disqualified due to less availability of water for crop expansion	
271				Malhamige wewa	Minor	Data not available									
272				Meegasdigiliya wewa	Minor	Data not available									
273				Millagollawa wewa	Minor		1.55	DL1b	11.00	0.13	11	2		Disqualified due to less availability of water for crop expansion	
274				Nabadagasdigiliya wewa	Minor		2.07	DL1b	22.00	0.27	16	3		Disqualified due to less availability of water for crop expansion	
275				Nawodagama wewa	Minor		2.33	DL1b	17.00	0.21	17	4		Disqualified due to less availability of water for crop expansion	
276				Puravarasan kulam	Minor	Data not available									
277				Randoowa wewa	Minor		1.55	DL1b	11.00	0.13	11	2		Disqualified due to less availability of water for crop expansion	
278				Dunumadlawa	Minor		1.19	DL1b	12.00	0.15	9	2		Disqualified due to less availability of water for crop expansion	
279				Helabagas wewa	Minor		3.11	DL1b	19.00	0.24	19	5		Disqualified due to less availability of water for crop expansion	
280				Palugas wewa	Minor		1.04	DL1b	13.00	0.16	8	2		Disqualified due to less availability of water for crop expansion	
281				Kiralpatiyawa	Minor		1.04	DL1b	30.00	0.37	8	2		Disqualified due to less availability of water for crop expansion	
282			Nuwaragampalatha	Ambagaha wewa	Minor	Data not available									
283				Gambiriga Wewa	Minor		1.42	DL1b	46.00	0.57	17	2		Disqualified due to less availability of water for crop expansion	
284				Halambagas wewa	Minor		0.65	DL1b	24.00	0.30	8	1		Disqualified due to less availability of water for crop expansion	
285				Kudahalmillawa wewa	Minor	Data not available									
286				Lift irrigation system at Asokapura	Minor	Data not available									
287				Paniyankadawela wewa	Minor		3.24	DL1b	18.00	0.72	38	5		Disqualified due to less availability of water for crop expansion	
288				Perimiyan kulama tnk	Minor		1.30	DL1b	24.00	0.28	10	2		Disqualified due to less availability of water for crop expansion	
289				Siyambalagas wewa	Minor		0.26	DL1b	6.00	0.07	3	0		Disqualified due to less availability of water for crop expansion	
290			Nachchaduwa	Ahangama wewa	Minor		2.33	DL1b	20.00	0.25	20	4		Disqualified due to less availability of water for crop expansion	
291				Ambagas wewa	Minor		1.04	DL1b	9.00	0.11	9	2		Disqualified due to less availability of water for crop expansion	
292				Demata wewa	Minor		0.52	DL1b	2.00	0.02	2	1		Disqualified due to less availability of water for crop expansion	
293				Feeder channel to Palisge wewa from Nachchaduwa feeder channel	Minor	Data not available									
294				Henapolyagama wewa	Minor		0.52	DL1b	18.00	0.22	6	1		Disqualified due to less availability of water for crop expansion	
295				Kaluarachchigama wewa	Minor	Data not available									
296				Katugampola wewa	Minor		2.59	DL1b	32.00	0.39	30	4		Disqualified due to less availability of water for crop expansion	
297				Kudanelumbewa wewa	Minor	Data not available									
298				Mahanelumbewa wewa	Minor	Data not available									
299				Pahala wewa	Minor	Data not available									
300				Palisge Wewa	Minor	Data not available									
301				Siyambalagas wewa	Minor		1.48	DL1b	10.00	0.12	10	2		Disqualified due to less availability of water for crop expansion	
302			Rajangana	Thamannawa wewa	Minor		1.97	DL1b	4.00	0.15	12	3		Disqualified due to less availability of water for crop expansion	
303			Gabnewa	Ihala Palugallagama wewa	Minor		0.39	DL1b	4.00	0.05	4	1		Disqualified due to less availability of water for crop expansion	
304				Ihala Walas wewa	Minor		0.78	DL1b	4.00	0.06	5	2		Disqualified due to less availability of water for crop expansion	
305				Ihalagama Haliyagama Wewa	Minor		1.04	DL1b	4.00	0.05	4	3		Disqualified due to less availability of water for crop expansion	
306				Kallanchiya wewa	Minor		2.33	DL1b	28.00	0.35	27	6		Disqualified due to less availability of water for crop expansion	
307				Nelumpathgama wewa	Minor		0.91	DL1b	8.00	0.10	8	2		Disqualified due to less availability of water for crop expansion	
308				Pahala Scerambewa	Minor		1.94	DL1b	8.00	0.13	11	5		Disqualified due to less availability of water for crop expansion	

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S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro-ecology Zone	Command Area (Ha)	Storage Capacity (MCM) ⁶	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
											Maha(Paddy)	Yala (OFC)		
309				Udanagama wewa	Minor		1.04	DLIb	26.00	0.32	12	3		Disqualified due to less availability of water for crop expansion
			Tambuttegama	No tanaks										
310			Talawa	Dik wewa	Minor		1.94	DLIb	40.00	0.49	23	5		Disqualified due to less availability of water for crop expansion
311				Eppawela Tank	Minor	Data not available								
312				Kadurugas wewa	Minor	Data not available								
313				Karagaha wewa	Minor	Data not available								
314				Kelediu wewa	Minor	Data not available								
315				Kiri Amunugollewa wewa	Minor		0.93	DLIb	16.00	0.20	11	2		Disqualified due to less availability of water for crop expansion
316				Nambada Wewa	Medium		2.46	DLIb	101.00	1.23	29	4		Disqualified due to less availability of water for crop expansion
317				Rathmelwatiya wewa	Minor		1.24	DLIb	34.00	0.42	15	3		Disqualified due to less availability of water for crop expansion
318				Siyabalagas wewa	Minor		0.91	DLIb	24.00	0.30	11	2		Disqualified due to less availability of water for crop expansion
319			Nochchiyagama	Calkadawela wewa	Minor		1.55	DLIb	18.00	0.38	12	2		Disqualified due to less availability of water for crop expansion
320				Kongasdigiliya wewa	Minor		1.11	DLIb	18.00	0.27	9	2		Disqualified due to less availability of water for crop expansion
321				Kuda wewa	Minor	Data not available								
322				Kusumpura wewa	Minor		1.30	DLIb	52.00	0.63	10	2		Disqualified due to less availability of water for crop expansion
323				Mahadivul Wewa	Minor		2.38	DLIb	18.00	0.32	19	4		Disqualified due to less availability of water for crop expansion
324				Nekaththegama wewa	Minor		1.30	DLIb	8.00	0.20	10	2		Disqualified due to less availability of water for crop expansion
325				Nivandama wewa	Minor		1.09	DLIb	6.00	0.20	8	2		Disqualified due to less availability of water for crop expansion
326				Paluhiriyalegama wewa	Minor		0.93	DLIb	10.00	0.16	7	1		Disqualified due to less availability of water for crop expansion
327				Wahabedu wewa	Minor		0.83	DLIb	4.00	0.12	6	1		Disqualified due to less availability of water for crop expansion
328			Thirappane	Dik wewa	Minor		0.39	DLIb	14.00	0.17	6	1		Disqualified due to less availability of water for crop expansion
329				Kumbuk wewa	Minor	Data not available								
330				Mahakanumulla wewa	Minor		0.78	DLIb	79.00	0.13	9	2		Disqualified due to less availability of water for crop expansion
331				Thodanaduwa Wewa	Minor		4.79	DLIb	24.00	0.21	24	15		Disqualified due to less availability of water for crop expansion
332			Palugas wewa	Asirigama wewa	Minor		1.30	DLIb	13.00	0.25	21	4		Disqualified due to less availability of water for crop expansion
333				Debunnawa wewa	Minor		3.37	DLIb	46.00	0.53	46	8	Qualified	
334				Horuwila Nikathugama wewa	Minor		1.17	DLIb	24.00	0.18	18	3		Disqualified due to less availability of water for crop expansion
335				Kalawagama Wewa	Minor		2.46	DLIb	40.00	0.16	38	6	Qualified	
336				Maithirigama wewa	Minor	Data not available								
337				Puwakpitiya wewa	Minor		0.65	DLIb	22.00	0.27	15	4	Qualified	
338				Senadirayagama wewa	Minor		3.63	DLIb	44.00	0.55	45	11	Qualified	
339				Siyabalagas wewa	Minor		1.55	DLIb	14.00	0.19	15	4	Qualified	
340				Thimbala wewa	Minor	Data not available								
341				Thumbikkulama wewa	Minor	Data not available								
342				Wayana ulpotha wewa	Minor		1.17	DLIb	22.00	0.22	18	3		Disqualified due to less availability of water for crop expansion
343			Kakirawa	Kadiyawa wewa	Minor	Data not available								
344				Keeriyagas wewa	Minor	Data not available								
345				Kowakkulama wewa	Minor		1.94	DLIb	30.00	0.19	30	5		Disqualified due to less availability of water for crop expansion
346				Maminiyawa wewa	Minor		1.30	DLIb	24.00	0.10	4	1		Disqualified due to less availability of water for crop expansion
347				Medagama lhala wewa	Minor		1.55	DLIb	4.00	0.05	4	4		Disqualified due to less availability of water for crop expansion
348				Neekiniyawa Wewa	Minor		0.78	DLIb	34.00	0.08	12	2		Disqualified due to less availability of water for crop expansion
349				Nellyyagama wewa	Minor		0.78	DLIb	22.00	0.11	12	2		Disqualified due to less availability of water for crop expansion
350				Olukarandagama Palugas wewa	Minor		0.52	DLIb	28.00	0.08	8	1		Disqualified due to less availability of water for crop expansion
351				Ramba wewa	Minor	Data not available								
352				Sasthraweliyaya wewa	Minor		0.52	DLIb	57.00	0.09	8	1		Disqualified due to less availability of water for crop expansion
353				Thoru wewa	Minor		2.85	DLIb	81.00	0.66	44	7		Disqualified due to less availability of water for crop expansion
354			Mahaweli - Sy H	Kalawewa, Kandalama Tanks with Mahaweli Diversion			841.00	DLIb	28,000.00	154.00	28,000	21,560	Qualified	
355	NP	Mannar	Manthai West	Adampankulam	Medium		11.70	DL4	162.00	0.72	59	11	Qualified	
356				Karayankannadi tank		Data not available								
357				Kurai tank & Parangi Aru Anicut	Individual		24.60	DL4	700.00	2.54	208	42	Qualified	
358				Maruthamadu Anicut Scheme	Medium		6.90	DL4	227.00	0.51	41	8	Qualified	

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											Maha(Paddy)	Yala (OFC)		
359				Periyamadu Tank & Lift Irrigation	Medium		367.80	DL4	304.00	7.13	584	117	Qualified	
360				Welmaruthamadu Scheme	Individual		400.00	DL4	307.00	3.41	279	56	Qualified	
361			Madu	Thatchchanamaruthamadu	Medium		111.40	DL11	214.00	1.41	115	25	Qualified	
362				Periya Pandivinchchan Scheme	Medium		83.90	DL11	245.00	3.47	284	57	Qualified	
363				Mullikulam Irrigation Scheme	Medium		32.80	DL11	152.00	1.85	151	30	Qualified	
364		Mulattivu	Thurkkai	Ambalaperumalkulam Tank	Medium		61.10	DL1e	252.00	3.78	309	151	Qualified	
365				Ivankulam Tank	Medium		35.00	DL1e	384.00	4.87	399	196	Qualified	
366				Koddaikuddinakulam Tank	Medium		24.60	DL1e	164.00	1.28	105	51	Qualified	
367				Kollivilankulam Tank	Medium		14.90	DL1e	162.00	1.87	153	75	Qualified	
368				Mallavi Tank	Medium		4.80	DL1e	131.00	0.91	75	37	Qualified	
369				Muruthankulam Tank	Medium		26.70	DL1e	182.00	2.1	172	84	Qualified	
370				Palayamurukandykulam Tank	Medium		19.60	DL1e	144.00	2.2	180	88	Qualified	
371				Tenniyankulam Tank	Medium		45.30	DL1e	344.00	5.4	442	217	Qualified	
372				Therankandal Tank	Medium		12.30	DL1e	121.00	0.9	74	36	Qualified	
373			Manthai East	Eppadiyakulam Tank		Data not available								
374				Moopankulam Tank		Data not available								
375				Sinnaijamperumalkulam Tank	Minor		1.04	DL1e	8.00	0.10	8	3		Disqualified due to less availability of water for crop expansion
376				Vaunikulam Tank - LB & RB LIS	Individual		228.00	DL1e	2,790.00	43.54	2790	1746	Qualified	
377				Moonru murippu	Minor		1.55	DL1e	23.00	0.29	23	5		Disqualified due to less availability of water for crop expansion
378				Naddankandal kulam	Minor		1.30	DL1e	21.00	0.25	21	4		Disqualified due to less availability of water for crop expansion
379				Odaranthakulam	Minor		1.81	DL1e	32.00	0.39	32	6		Disqualified due to less availability of water for crop expansion
380				Kalvilankulam		Data not available								
381				Karumpuliyankulam		Data not available								
382				Pandiyankulam		Data not available								
383				Poovarasankulam		Data not available								
384				Siraddy kulam		Data not available								
385				Ambal puram		Data not available								
386				Ponnagar		Data not available								
387				Selvapuram		Data not available								
388				Sivapuram		Data not available								
389				Vinayagapuram		Data not available								
390			Oddusuddan	Muthu Iyan kaddu Tank & LIS	Individual		171.00	DL1e	2,468.00	50.57	4140	3188	Qualified	
391				Othiyamalai	Minor		2.59	DL1e	27.00	0.34	27	8		Disqualified due to less availability of water for crop expansion
392				Palampasi	Minor		2.59	DL1e	21.00	0.26	21	8		Disqualified due to less availability of water for crop expansion
393				Thaddayamalai	Minor		2.59	DL1e	16.00	0.20	16	8		Disqualified due to less availability of water for crop expansion
394				Thadduvan	Minor		2.59	DL1e	38.00	0.46	38	8		Disqualified due to less availability of water for crop expansion
395				17th mile post		Data not available								
396				Caneshapuram		Data not available								
397				Kanagarathinapuram		Data not available								
398				Katchilamadu		Data not available								
399				Muthuvinayagapuram		Data not available								
400				Pandarawanni		Data not available								
401				Per aru		Data not available								
402				Puliyankulam		Data not available								
403				Samanan kulam		Data not available								
404				Vithiyapuram		Data not available								
405		Vavuniya	Vavuniya Town	Alankulam	Minor		4.14	DL1b	9.00	0.11	10	16		Disqualified due to less availability of water for crop expansion
406				Alayamaruthamadu Tank	Medium		8.30	DL1b	92.00	0.60	92	43		Disqualified due to less availability of water for crop expansion
407				Arasankulam	Minor		4.14	DL1b	11.00	0.14	11	10		Disqualified due to less availability of water for crop expansion
408				Chemamadu Tank	Medium		37.60	DL1b	243.00	3.20	243	114		Disqualified due to less availability of water for crop expansion
409				Elamaruthankulam	Minor		5.96	DL1b	16.00	0.20	40	15		Disqualified due to less availability of water for crop expansion
410				Iluppaikulam	Minor		3.89	DL1b	32.00	0.39	32	10		Disqualified due to less availability of water for crop expansion

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											Maha(Paddy)	Yala (OFC)		
411				Kaliya Kulam	Minor		1.55	DL1b	18.00	0.22	18	4		Disqualified due to less availability of water for crop expansion
412				Kalmadu Tank	Medium		52.30	DL1b	162.00	1.30	162	76		Disqualified due to less availability of water for crop expansion
413				Kathiran Kulam	Minor	Data not available								
414				Kathirvelan Poovarasam Kulam	Minor		2.33	DL1b	67.00	0.81	27	6		Disqualified due to less availability of water for crop expansion
415				Kollamaruthamadu Kulam	Minor		1.55	DL1b	18.00	0.22	18	4		Disqualified due to less availability of water for crop expansion
416				Kombuvitha Kulam	Medium		6.20	DL1b	85.00	1.04	85	40		Disqualified due to less availability of water for crop expansion
417				Maharanbai Kulam	Medium		15.80	DL1b	87.00	1.06	87	41	Qualified	
418				Mallikai Tank	Medium		6.30	DL1b	122.00	1.48	122	57		Disqualified due to less availability of water for crop expansion
419				Moonayamadu Tank	Medium		56.20	DL1b	87.00	1.06	87	41	Qualified	
420				Maraiyadiththa Kulam	Minor		4.40	DL1b	45.00	0.55	45	21	Qualified	
421				Nainarmadu Kulam	Minor	Data not available								
422				Nampam Kulam	Medium		6.10	DL1b	104.00	1.27	104	49		Disqualified due to less availability of water for crop expansion
423				Naruvil kulam	Minor		0.78	DL1b	8.00	0.10	8	4		Disqualified due to less availability of water for crop expansion
424				Nedunkulam	Minor		1.30	DL1b	32.00	0.39	20	3	Qualified	
425				Palavar Kulam	Minor	Data not available								
426				Pampaimadu Tankm	Medium		18.10	DL1b	105.00	1.29	105	49	Qualified	
427				Panikkaneeravi Kulam	Minor		1.81	DL1b	15.00	0.48	39	8	Qualified	
428				Peechchaththipodda kulam	Minor	Data not available								
429				Pirappan Kulam	Minor	Data not available								
430				Puthuk Kulam	Minor		2.59	DL1b	26.00	0.32	26	6		Disqualified due to less availability of water for crop expansion
431				Rambaikulam	Minor		1.81	DL1b	16.00	0.24	19	5		Disqualified due to less availability of water for crop expansion
432				Samalan kulam	Minor		0.78	DL1b	8.00	0.10	8	2		Disqualified due to less availability of water for crop expansion
433				Sengalpaddu - 2nd	Minor	Data not available								
434				Sundarathayar Puliyankulam	Minor		2.59	DL1b	18.00	0.22	18	6	Qualified	
435				Thampanai Kulam	Minor		2.59	DL1b	14.00	0.17	14	6	Qualified	
436				Tharani Kulam	Minor		1.55	DL1b	16.00	0.20	16	4	Qualified	
437				Thirumeiyathu Kulam	Minor	Data not available								
438				Vadakoddu Puliyankulam Tank	Minor	Data not available								
439				Vaikooli Koodan Kulam	Minor		1.81	DL1b	27.00	0.33	21	5	Qualified	
440				Vavuniya Tank	Medium	Data not available								
441				Vedan Kulam	Minor		1.30	DL1b	32.00	0.39	20	3	Qualified	
442				Velankulam	Medium		4.90	DL1b	90.00	1.11	90	42		Disqualified due to less availability of water for crop expansion
443				Veppan Kulam	Minor		1.30	DL1b	12.00	0.15	12	3	Qualified	
444			Vavuniya North	Kachchakodi Kulam	Minor	Data not available								
445				Kanagarayankulam	Medium		9.10	DL1b	127.00	1.55	127	37		Disqualified due to less availability of water for crop expansion
446				Kantharodai Kulam	Minor		1.30	DL1b	10.00	0.12	10	6	Qualified	
447				Kodaliparichan Kulam	Minor		3.63	DL1b	12.00	0.14	12	16	Qualified	
448				Kovilpuliyanakulam	Minor		1.81	DL1b	9.00	0.41	34	8		Disqualified due to less availability of water for crop expansion
449				Kunchukulam	Minor		3.63	DL1b	51.00	0.62	51	16		Disqualified due to less availability of water for crop expansion
450				Nagar Kulam	Minor	Data not available								
451				Paddadai Pirintha Kulam	Minor		4.14	DL1b	12.00	0.38	32	18		Disqualified due to less availability of water for crop expansion
452				Padukatukulam	Minor		0.78	DL1b	8.00	0.14	11	3		Disqualified due to less availability of water for crop expansion
453				Parasankulam	Minor		0.78	DL1b	15.00	0.24	12	2		Disqualified due to less availability of water for crop expansion
454				Samalan Kulam	Minor		1.55	DL1b	25.00	0.31	24	4		Disqualified due to less availability of water for crop expansion
455				Senappan kulam	Minor	Data not available								
456				Thirukkaddu kulam	Minor		3.37	DL1b	8.00	0.32	23	15	Qualified	
457				Thuvanereri Kulam	Minor		1.81	DL1b	34.00	0.42	34	7		Disqualified due to less availability of water for crop expansion
458				Udayarapandiard	Minor		0.78	DL1b	13.00	0.24	14	2	Qualified	
459			Vavuniya South	Anapulnthawewa Irrigation Scheme	Minor		0.81	DL1b	14.00	0.17	14	3		Disqualified due to less availability of water for crop expansion
460				Eropothan Irrigation Scheme	Medium		3.89	DL1b	88.00	1.08	83	18	Qualified	
461				Galsiyampalawewa Irrigation Scheme	Minor		1.20	DL1b	34.00	0.41	34	7		Disqualified due to less availability of water for crop expansion
462				Madukanda Irrigation Scheme	Medium		11.10	DL1b	162.00	1.98	162	34	Qualified	

Table A 5.1 Screening of the Irrigation Schemes

S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro-ecology Zone	Command Are (Ha)	Storage Capacity (MCMD) ^b	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
											Maha (Paddy)	Yala (OFC)		
463				Mahakachchakodiya Irrigation Scheme	Medium		18.60	DL1b	104.00	1.27	104	22		Disqualified due to less availability of water for crop expansion
464				Mamaduwa Irrigation Scheme	Medium		67.30	DL1b	267.00	3.26	267	56		Disqualified due to less availability of water for crop expansion
465				Navatkulam Irrigation Scheme	Minor		4.66	DL1b	17.00	0.21	17	12		Disqualified due to less availability of water for crop expansion
466				Poomaduwa Irrigation Scheme	Minor		4.66	DL1b	37.00	0.45	37	12	Qualified	
467	UP	Badulla	Haliela	Irrigation channels -Wathuelpotha pallearawa	Minor	Data not available								
468				Irrigation channels -hethakma suwandal watta Mahawela Ela	Minor	Data not available								
469				Irrigation channels -Yahalekembura Ela	Minor		1.94	IU3c	5.00	Anicut	5	4		Disqualified due to less availability of water for crop expansion
470			Welimada	Ahaswewa in Gavarammana	Minor	Data not available								
471				Lift irrigation system to Madorawita gamenwela Tract	Minor	Data not available								
472				Nedungamuwakiri Uthurana wewa	Minor		3.37	IU3d	70.00	0.86	70	112	Qualified	
473				New tank near Wakadaginna Anicut	Minor	Data not available								
474				Thummane Canal	Minor	Data not available								
475				Welikandagama to Navaranwatta ella Canal	Minor	Data not available								
476				Wewa goda tank (Malpotha)	Minor		0.78	IU3d	20.00	0.25	20	32	Qualified	
477			Meegahakiwla	Ambagahawela Canal		Data not available								
478				Balagolla Yapamma Ela		Data not available								
479				Ellanda yatillara Ela		Data not available								
480		Monaragala	Badalkumbura	Athala ela Canal system	Minor		7.77	IM2b	46.00	Anicut	46	35		Disqualified due to less availability of water for crop expansion
481				Ankada Maha Canal (Anicut)	Minor		7.77	IM2b	52.00	Anicut	52	39	Qualified	
482				Hirimale Anicut & Channel system	Minor		1.55	IM2b	13.00	Anicut	13	21		
483				Lunugala yoda Tank	Medium		9.07	IM2b	135.00	1.65	135	101	Qualified	
484				Ulwitta Canal (Hingurukandura) - Anicut	Minor		11.66	IM2b	27.00	Anicut	27	20	Qualified	
485			Madulla	Wiharakandiya Tank	Minor		0.52	IL1c	14.00	0.17	14	11		Disqualified due to less availability of water for crop expansion
486				Dummugasara Anicut	Minor		0.26	IL1c	8.00	Anicut	8	6		Disqualified due to less availability of water for crop expansion
487				Ethgalekandura Anicut	Minor		0.52	IL1c	16.00	Anicut	16	12		Disqualified due to less availability of water for crop expansion
488				Madahelagama anicut	Minor		1.04	IL1c	8.00	Anicut	8	6		Disqualified due to less availability of water for crop expansion
489				Moragahakumbura Tank	Minor		0.78	IL1c	20.00	0.25	20	15		Disqualified due to less availability of water for crop expansion
490				Nagahamada Tank	Minor		0.52	IL1c	28.00	0.34	28	21		Disqualified due to less availability of water for crop expansion
491			Bibile	Gurulagolla Canal	Minor		1.20	IL1c	14.00	Anicut	14	11		Disqualified due to less availability of water for crop expansion
492				Hadduramba Tank	Minor		2.07	IL1c	16.00	0.20	16	12		Disqualified due to less availability of water for crop expansion
493				Meegaha arawa Tank	Medium	Data not available								
494				Paragahalanda Tank	Minor		2.07	IL1c	24.00	0.01	1	2		Disqualified due to less availability of water for crop expansion
495			Buttala	Aragala Tank & Canal System	Minor		0.52	IL1c	21.00	0.26	15	8		Disqualified due to less availability of water for crop expansion
496				Boileruwa Tank		Data not available								
497				Dambewewa Canal System	Minor		1.30	DL1a	20.00	Anicut	20	14	Qualified	
498				Doowa Anicut & Canal System	Minor		0.47	DL1a	11.00	Anicut	11	7		Disqualified due to less availability of water for crop expansion
499				Edarugala ova Tank & Canal System	Minor		1.30	DL1a	28.00	0.35	28	20		Disqualified due to less availability of water for crop expansion
500				Ilupittiya Tank & Canal System	Minor		1.04	DL1a	20.00	0.01	1	1		Disqualified due to less availability of water for crop expansion
501				Kudagal Amuna Project	Medium	Data not available								
502				Mahanaga Project Anicut & Canal	Major	Data not available								
503				Milaththagala Tank & Canal	Minor	Data not available								
504				Niyadella Anicut & Canal system	Minor		0.26	DL1a	51.00	0.62	11	2		Disqualified due to less availability of water for crop expansion
505				Paraluwelyaya anicut & canal system		Data not available								
506				Pathigilanda Canal		Data not available								
507				Weerakettiya wewa feeder canal			1.04	DL1a	101.00	1.23	30	16		Disqualified due to less availability of water for crop expansion
508			Wellawaya	Anicut in Sudupanawela canal to feed	Minor	Data not available								
509				Anjaligama Tank	Minor	Data not available								
510				Buduruwagala wewa	Minor		4.66	DL1a	32.00	0.39	32	32	Qualified	
511				Naigal Ara Tank	Minor		0.52	DL1a	5.00	0.13	9	6		Disqualified due to less availability of water for crop expansion

Table A 5.1 Screening of the Irrigation Schemes

Table A 5.1 Screening of the Irrigation Schemes

S/No	Province	District	DS Division	Name of Proposed Tank	Scheme Category	Availability of Data	Catchment Area (Sq. km)	Agro-ecology Zone	Command Area (Ha)	Storage Capacity (MCM)*	Estimated Max. Possible Crop Extent (Ha)		Judgment	Remarks
											Maha(Paddy)	Yala (OFC)		
512				Pideni Ara Tank		Data not available								
513				Ranawaranawa Tank		Data not available								
514				Manaelgal Tank		Data not available								
515				Pehilla Pottavitta Tank		Data not available								
516				Feeder canal from Divulgaha kanatha tank to Varunagama senasuma tank (5km)		Data not available								
517				Kawantissa Tank	Minor	Data not available								
518				Linda ara Tank	Minor	Data not available								
519				Randeniya Anicut	Minor		1.30	DL1a	25.00	Anicut	25	20		Disqualified due to less availability of water for crop expansion
520				Watagala ara - 1 Tank	Minor		1.55	DL1a	30.00	0.37	30	23		Disqualified due to less availability of water for crop expansion
521				Watagala ara - 2	Minor		0.78	DL1a	2.00	Anicut	2	1		Disqualified due to less availability of water for crop expansion
			Moneragala	No tanks										
522			Siyambalanduwa	Ambilinna Tank		Data not available								
523				Bamparagale Tank		Data not available								
524				Galbidupitiya Tank		Data not available								
525				Gamagala Tank		Data not available								
526				Karadadara tank	Medium		0.52	DL1b	91.00	1.11	21	5	Qualified	
527				Kiulearawewa & canal system	Minor		0.52	DL1b	40.00	Anicut	40	30		Disqualified due to less availability of water for crop expansion
528				Una Ena Canal & anicut		Data not available								
529				Warapittiya Tank	Minor		1.30	DL1b	32.00	0.39	23	2	Qualified	
530				Waththedoruwa Anicut	Minor		1.55	DL1b	32.00	Anicut	27	3	Qualified	

Note:* Storage Capacities of minor tanks are estimated capacities

Table A 5.2 Farmer Training Program on Production of Self-seed and Certified Seed for OFCs and Planting Material for Fruits

Name of Session	Objectives	Participants	Contents	No. of Participants	Executor	Time Frame
(1) Quality self -seed production for OFC	At the end of the training program participants will be able to acquire knowledge to produce quality seeds in their farms	Farmers producing seeds for own use and commercial scale producers	<ol style="list-style-type: none"> 1. What is self-seed production 2. Seed production process 3. Factors affecting quality of seeds 4. Important agronomic and post -harvest practices in self seed production. 5. Storage of seeds. 	About 30 farmers in each session depending on number of potential farmers in the respective districts	SMOs of the Provincial DOA at district training centers or SMOs of the Central DOA	1 day
(2) Certified seed production for OFCs	At the end of the training program the participants will acquire knowledge to produce seeds according to the quality standards for seed certification.	Farmers producing seeds in commercial scale	<ol style="list-style-type: none"> 1. Seed production act 2. Quality standards of seeds. 3. Maintaining quality standards 	About 30 farmers in each session depending on number of potential farmers in the respective districts	SMOs of the Provincial DOA at district training centers and/or SMOs of the Seed Certification units in the respective areas.	1 day
(3) Quality planting material production for fruits	At the end training program the participants will acquire knowledge and skill on planting material production	Farmers producing planting material in commercial scale	<ol style="list-style-type: none"> 1. Seed and planting material act. 2. Plant propagation systems 3. Budding and grafting (Practical) 4. Plant net houses 5. Plant nursery field visit 	About 28 farmers in each session held at In-service training centers. A total of 9 sessions will be held for 255 potential farmers.	the experts (including SMOs) of fruit tree plant material production	3 days

Table A 5.3 Farmer Training Program on Farm Management Technology

Name of Session	Objective	Participant	Contents	No. of Participants	Executer	Time Frame
(1)Character rs of entrepreneu r and successful entrepreneu r	At the end of the day participants will be aware of the skills most needed for successful enterprise and be able to make a self -assessment on those skills	Selected farmers in the target development area	1. Sharing knowledge of participants on the entrepreneurial skills needed for successful business. 2. Self assessment on entrepreneurial skills possessed by each participant 3. Importance of acquiring such skills individually to run the farm as a business venture.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
	At the end of the day participants will be able to describe who is an entrepreneur? And be able to identify the characters of an entrepreneur.	Selected farmers in the target development area	1. Discussion with a successful entrepreneur on the following subjects. -Why did they start a business? -How long their business is being carried out? -How long did they take to get a profit? -What was the most important thing they did as an entrepreneur? -What is the most important thing you should be careful as an entrepreneur. -What are the most important characteristics of an entrepreneur? -Does risk influence them? Do they take risks? 2. Self-identification of strengths and weaknesses of participants as an entrepreneur.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
(2) Analysis of market information and market survey	At the end of the day participants will demonstrate their knowledge on acquiring information from various types of individuals involved in marketing.	Selected farmers in the target development area	Preparation for conducting a simple market survey Conducting a simple market survey	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
	At the end of day the participants will be able to learn the methods to summarize the survey information and present	Selected farmers in the target development area	1. Processing the information 2. Developing Market linkages. 3. Importance of market survey data in planning	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day

Name of Session	Objective	Participant	Contents	No. of Participants	Executer	Time Frame
(3) Farm Record keeping	At the end of the day the participants will be able to understand the importance of keeping farm record and will be aware of that there are many types of records.	Selected farmers in the target development area	1. Importance of record keeping.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
-Exercise 01	At the end of the day the participants will be able to identify the type of records they should keep and the methodology for continuous record keeping.	Selected farmers in the target development area	1. Production records. 2. Labor reports	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
-Exercise 02	At the end of the day the participants will have the skill on keeping records regularly.	Selected farmers in the target development area	Income records Financial expenditure records	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
- Exercise 03	At the end of the day the participants will have the skill on keeping records regularly	Selected farmers in the target development area	1. Domestic consumption records 2. Fixed assets records 3. Upgrading of records	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
(4) Preparation of farm business plan	At the end of day the participants will be able to prepare a business plan for their respective farms.	Selected farmers in the target development area	Components of farm business plan(Production plan, Marketing plan, Profitability, cash flow, risks)	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
	Participants will be able to identify the main activities and resources needed to implement the business plan.	Selected farmers in the target development area	Requirements to implement a business plan – Physical resources, inputs, labor, market, resource management and risk management.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day

Name of Session	Objective	Participant	Contents	No. of Participants	Executer	Time Frame
(5) Finance management in farm business	At the end of the day the participants will be able to understand the salient features of financial management in successful enterprise and to describe the major steps in financial control.	Selected farmers in the target development area	Assessing the financial requirements. External financial source- Credit. Advantages and risks of credit. Banking terminology- Interest rate, bank charges, loan repayment period, Loan grace period.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
(6)Marketing of farm produce	Sharing the experience of each other in marketing their produce.	Selected farmers in the target development area	Stressed points in marketing Product of marketing / Targeted market / Time ready for market / Activities before marketing / Mode of transport -record keeping on sales and income.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
-Group marketing concept	At the end of the day the participants will be able to understand the concepts of group marketing and will be aware of the advantages and disadvantages of group marketing.	Selected farmers in the target development area	1. Diverse marketing channels and systems. 2. Advantages and disadvantages of group marketing.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
-Contract farming	At the end of the day farmers will have the knowledge on the special features , methodology , and advantages & disadvantages in contract farming	Selected farmers in the target development area	1. What is contract farming? 2. Advantages and disadvantages of contract farming. 3. Essential components of an agreement. 4. Preparation of simple contract agreement.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
-Evaluating a contract sales agreement.	At the end of the day the participants will be able to read an agreement carefully and understand it and be able to make an agreement.	Selected farmers in the target development area	1. Assessing the strengths and weaknesses in contract agreements. 2. Suggestions to improve the strengths further and to overcome the weaknesses. 3. Capacity development for dealing contract farming.	Thirty (30) participants in each program	Business persons from private sector and SMOs of Provincial DOA	Half day
(7) Risk assessment and management in farm business	At the end of the day the participants will be able identify the risks encountered in farming business and be aware of the ways of managing them.	Selected farmers in the target development area	1. What is risk? 2. Possible risks in farm business. 3. Effects of risks. 4. Financial losses in risk 5. Probability of risk. 6. Strategies to manage risks.	Thirty (30) participants for each program	Business persons from private sector and SMOs of Provincial DOA	Half day

Table A 5.4 Farmer Training Program on Crop Production Technology

Participant	Objectives	Contents	No. Of Participants	Executor	Time Frame
OFCs Production					
Target farmers of strategic OFC crops in DS division	<ul style="list-style-type: none"> - To increase productivity and production - To Efficient water use of available sources on crop cultivation - To improve productivity with appropriate irrigation methods - To add value of the products for increase income of farming 	<p><u>In and Around Demonstration Farm to be Established</u></p> <ol style="list-style-type: none"> 1. Basic cultivation technologies on chili and red onion 2. Basic cultivation technologies on big onion and legumes 3. Farm mechanization program 4. Productivity improvement of available water resource for OFC cultivation 5. Introduction of basic irrigation methods and operation 6. Installation and O&M of micro irrigation 7. Post-harvest handling of OFC crops (legumes/ chili/ onion) 8. Processing black gram flour/ chili powder <p><u>Study Tour to Advanced OFC Cultivation Farm(s)</u></p>	Thirty participants for each program	Subject Matter Officer (SMO) and/or Agriculture Instructor (AI) (External resource trainers would be arranged if necessary)	<p>The program is planned for 7 courses (half-day each) of “OFC cultivation technology”, “Micro Irrigation” and “Value Addition” following to “Farm Management Improvement Program” in the period of 1 crop season (180 days). Program is to be conducted at;</p> <ol style="list-style-type: none"> 1) Pre-cultivation, 2) Land preparation stage, 3) Planting stage, 4) Flowering stage, 5) Harvesting stage 6) Post-harvest stage 7) Marketing stage <p>In addition, the study tour is conducted in an appropriate timing spending two days.</p>
Fruits Production					
Target farmers of strategic fruits crops in DS division	<ul style="list-style-type: none"> - To increase productivity and production - To Efficient water use of available sources on crop cultivation - To improve productivity with appropriate irrigation methods - To add value of the products for increase income of farming 	<p><u>In and Around Demonstration Farm to be Established</u></p> <ol style="list-style-type: none"> 1. Basic cultivation technologies on mango and papaw 2. Basic cultivation technologies on sweet orange and passion fruits 3. Technical training on pruning for plant establishing and proper fruits setting 4. Productivity improvement of available water resources for fruits cultivation 5. Introduction of basic irrigation methods and operation 6. Installation and O&M of micro irrigation 7. Post-harvest handling of fruits crops 8. Value addition of fruits products <p><u>Study Tour to Advanced OFC Cultivation Farm(s)</u></p>	Thirty participants for each program	Subject Matter Officer (SMO) and/or Agriculture Instructor (AI) (External resource trainers would be arranged if necessary)	<p>The program is planned for 14 courses of “ Fruits cultivation technology”, “Micro Irrigation” and “ Value Addition” following to “Farm Management Improvement Program”</p> <p>Program is to be conducted for about one year at;</p> <ol style="list-style-type: none"> 1) Planning for cultivation 2) Pre-land preparation 3) Planting stage 4) 3-month after planting 5) 6-month after planting 6) 12-month after planting 7) 18-month after planting 8) 24-month after planting 9) 30-month after planting 10) 36-month after planting 11) 42-month after planting 12) 48-month after planting 13) Harvesting stage 14) Marketing stage <p>In addition, the study tour is conducted in an appropriate timing spending two days.</p>

Table A.5.5 Number of farm machineries Required for OFCs Production and Processing

Zone	District	For Legume Cultivation				For Groundnut Decorticating Machine		For Pulse Splitting and Cleaning Machines			For Pulses and Chili Grinding	
		Total Legumes Extent	Manual Highland Seeder	Highland weeder	Ridger	Groundnut Extent	Groundnut Decorticating	Total Pulse Extent	Pulse Splitting Machine	Pulse Cleaning Machine	Total Pulses and Chili Extent	Grinding Machine
		(ha)	(No.) a/	(No.) a/	(No.) a/	(ha)	(No.) a/	(ha)	(No.) a/	(No.) a/	(ha) b/	(No.) a/
CZ-1	Mannar	0	0	0	0	0	0	0	0	0	200	10
	Mulathiv	640	32	32	16	90	5	230	12	12	1,400	70
	Vavnia	0	0	0	0	0	0	0	0	0	180	9
	Trincomalee	300	15	15	8	40	2	110	6	6	170	9
	Sub total	940	47	47	24	130	7	340	18	18	1,950	98
CZ-2	Ampara	120	6	6	3	15	1	40	2	2	40	2
	Batcaloa	330	17	17	8	45	2	120	6	6	220	11
	Anuradapura	20	1	1	1	0	0	10	1	1	790	40
	Mahaweli H	5,270	264	264	132	730	37	1,900	95	95	3,550	178
	Sub total	5,740	288	288	144	790	40	2,070	104	104	4,600	231
CZ-3	Kurunegala	40	2	2	1	5	0	15	1	1	80	4
	Puttalam	510	26	26	13	70	4	185	9	9	620	31
	Sub total	550	28	28	14	75	4	200	10	10	700	35
CZ-4	Badulla	0	0	0	0	0	0	0	0	0	120	6
	Monaragala	90	5	5	2	10	1	30	2	2	540	27
	Sub total	90	5	5	2	10	1	30	2	2	660	33
Total		7,320	368	368	184	1,005	52	2,640	134	134	7,910	397

Note a/: Number of machineries required is estimated based on the following assumptions:

- Manual highland seeder; about 5% of total legumes extent
- Highland weeder; about 5% of total legumes extent
- Ridger; about 2.5% of total legumes extent
- Groundnut decorticating machine; about 5.0% of groundnut extent
- Pulse splitting machine; about 5.0% of total pulse extent
- Pulse cleaning machine; about 5.0% of total pulse extent
- Grinding machine; about 5.0% of total pulse and chili extent

b/: Pulses consist of cowpea, blackgram and greengram (groundnut and soybean are excluded.).

Source: JICA Survey Team

Zone	District	Fence for Agro Well Area			Fence for Surface Irrigation Area				Calculated Total Amount (km)	Assumed Total Requirement c/ (km)
		Development Area (ha)	Required Length per Ha a/ (km/ha)	Sub-total (km)	Development Area (ha)	No. of Tracks (Tertiaries) b/ (No.)	Required Length per 10 Ha (km/10 ha)	Sub-total (km)		
CZ-1	Mannar	210	0.40	84	220	22.0	1.265	28	112	56
	Mualthive	60	0.40	24	1,920	192.0	1.265	243	267	133
	Vavnia	260	0.40	104	240	24.0	1.265	30	134	67
	Trincomalee	660	0.40	264	430	43.0	1.265	54	318	159
	Sub-total	1,190	0.40	476	2,810	281.0	1.265	355	831	416
CZ-2	Ampara	150	0.40	60	120	12.0	1.265	15	75	38
	Batticaloa	190	0.40	76	340	34.0	1.265	43	119	60
	Anuradapura	1,050	0.40	420	440	44.0	1.265	56	476	238
	System H	100	0.40	40	8,150	815.0	1.265	1,031	1,071	535
	Sub-total	1,490	0.40	596	9,050	905.0	1.265	1,145	1,741	870
CZ-3	Kurunegala	970	0.40	388	90	9.0	1.265	11	399	200
	Puttalam	290	0.40	116	1,190	119.0	1.265	151	267	133
	Sub-total	1,260	0.40	504	1,280	128.0	1.265	162	666	333
CZ-4	Badulla	540	0.40	216	90	9.0	1.265	11	227	114
	Monaragala	990	0.40	396	180	18.0	1.265	23	419	209
	Sub-total	1,530	0.40	612	270	27.0	1.265	34	646	323
Total	5,470	0.40	2,188	13,410	1,341.0	1.265	1,696	3,884	1,942	

Note a/: Assumed that each unit area of 1.0 ha (400m) is fenced with barbed wire

b/: Assumed that each track area (tertiary block) of 10 ha (1,265 m) is fenced with barbed wire

c/: Assumed that actual total requirement is to be 50% of the calculated amount.

Source: JICA Survey Team

Table A 5.6 Estimate of Barbed Wire Fence Requirement by Districts and Zones

Table A 5.7 Estimate of Electric Fence (EF) Requirement by Districts and Zones

Zone	District	DS Division Which Requires EF a/	Total Length of Electric Fence (Km)
CZ-1	Mannar	-	0
	Mualthive	-	0
	Vavnia	-	0
	Trincomalee	Kuchchaweli	30
	Trincomalee	Morawewa	30
	Sub-total		60
CZ-2	Ampara	Padiyathalawa	30
		Mahaoya	30
	Batticaloa	-	0
	Anuradapura	Horowpathana	30
		Kahatagasdigiliya	30
		Mahawilachchiya	30
		Thirappane	30
	System H	-	0
	Sub-total		180
CZ-3	Kurunegala	Galgamuwa	30
		Giribawa	30
		Ambanpola	30
		Kotawehera	30
		Polpithigama	30
		Nikaweratiya	30
		Puttalam	Karuwalagaswewa
	Nawagattegama		30
	Anamaduwa		30
	Mahakumbukkadawala		30
	Sub-total		300
CZ-4	Badulla	-	0
	Monaragala	Siyabalanduwa	30
	Sub-total		30
Total		570	

Note a/: 30 km of electric fence will be provided to DS division where elephant damage frequently occurs.

Source: JICA Survey Team

Table A 5.8 Number of Farmers Whose Storage Facilities are Needed to be Improved

Zone	District	No. of Red & Big Onion Farmers for Storage Improvement			No. of Chili & Legume Farmers for Storage Improvement		
		Target Development Area	Estimated No. of Farmers a/	Farmers for Improvement of Storage Facilities b/	Target Development Area	Estimated No. of Farmers c/	Farmers for Improvement of Storage Facilities d/
		(ha)	(No.)	(No.)	(ha)	(No.)	(No.)
CZ-1	Mannar	140	230	115	200	328	66
	Mulathiv	150	246	123	1,810	2,967	593
	Vavnia	300	492	246	180	295	59
	Trincomalee	610	1,000	500	360	590	118
	Sub total	1,200	1,967	984	2,550	4,180	836
CZ-2	Ampara	0	0	0	120	197	39
	Batcaloa	0	0	0	430	705	141
	Anuradapura	210	344	172	800	1,311	262
	Mahaweli H	1,230	2,016	1,008	6,920	11,344	2,269
	Sub total	1,440	2,361	1,180	8,270	13,557	2,711
CZ-3	Kurunegala	90	148	74	110	180	36
	Puttalam	70	115	57	950	1,557	311
	Sub total	160	262	131	1,060	1,738	348
CZ-4	Badulla	370	607	303	120	197	39
	Monaragala	0	0	0	600	984	197
	Sub total	370	607	303	720	1,180	236
Total		3,170	5,197	2,598	12,600	20,656	4,131

Note a/: Average farm size of 0.61 ha per farm household is applied in the estimate.

b/: Assumed that 50% of farmers will need to improve the storage facilities.

c/: Average farm size of 0.61 ha per farm household is applied in the estimate.

d/: Assumed that 20% of farmers will need to improve the storage facilities.

Source: JICA Survey Team

Table A 5.9 Training of Trainers Program on Farm Management Improvement

Program	Participant	Objectives	Contents	No. of Participants	Executor	Time Frame
TOT on farm management improvement	SMO, AI, FA of MASL who will take charge of farmer training at DS level	<ul style="list-style-type: none"> - Fostering trainers for conducting training program of “Farm Management Improvement” - Trained field extension staffs are to conduct field training of “Farm Management Improvement” training program and “Improvement of Crop Productivity, Production”, “Micro Irrigation and “Value Addition” in the field 	<ul style="list-style-type: none"> - Characters entrepreneur and successful entrepreneur - Analysis of market information and market survey - Farm Record keeping - Preparation of farm business plan - Finance management in farm business - Marketing of farm produce (group marketing/contract farming/evaluation) - Risk assessment and management in farm business 	<p>Thirty (30) participants for each session of program</p> <p>Total number will be 180, 3 extension officers from 54 DS divisions and 6 areas of Mahaweli System “H”</p>	DOA (central) with private sector assistance at ISTCs	14 days

Table A 5.10 Training of Trainers Program on Crop Production Improvement

Program	Participant	Objectives	Contents	No. of Participants	Executor	Time Frame
Enhancement of crop (OFC) production through advanced agricultural practices	SMO, AI, FA of MASL who will take charge of farmer training at DS level	Capacity development of front line extension staff (Agricultural instructors/Field Assistants) on advance agricultural technology to disseminate among OFC growing farmers.	<ul style="list-style-type: none"> - Potential and actual yield gap - New OFC crop varieties and their special characters. - Good agronomic practices in OFC cultivation - Integrated Plant Nutrient Management (IPNS) in OFC cultivation. - Integrated Pest Management (IPM) in OFC cultivation. - Organic farming of OFC for Nish markets. - Pre harvest practices and quality of produce. - Sandwich crop cultivation 	<p>Thirty (30) participants for each session of program</p> <p>Total number will be 180, 3 extension officers from 54 DS divisions and 6 areas of Mahaweli System "H"</p>	DOA (central) with private sector assistance at ISTCs	3 days
Promotion of Fruit production for export market.	SMO, AI, FA of MASL who will take charge of farmer training at DS level	Capacity development of front line extension staff (Agricultural instructors/Field Assistants) on advance agricultural technology (with special emphasis on export) to disseminate among fruit growing farmers.	<ul style="list-style-type: none"> - Export demand for fruits - Production factors for export market - Orchard type fruit cultivation (establishment and management) - Pruning, training and other essentials in fruit crop cultivation. - Induced blooming and fruiting in fruit crop cultivation. - Pre and post- harvest practices for production of quality fruits. - Organic farming of fruits for Nish markets. - Inter cropping in fruit cultivation. 	<p>Thirty (30) participants for each session of program</p> <p>Total number will be 180, 3 extension officers from 54 DS divisions and 6 areas of Mahaweli System "H"</p>	DOA (central) with private sector assistance at ISTCs	3 days
Productivity Improvement of available water resources for cultivation	SMO, AI, FA of MASL who will take charge of farmer training at DS level	Agriculture Instructors will gather necessary knowledge and skills to assist farmers to manage available water resources to maximize crop yield.	<ul style="list-style-type: none"> - Global scarcity of water and its value. - Soil/plant water relationship - Crop water requirement - On farm water management - Micro irrigation - Soil moisture conservation - Use of Agro Wells for cultivation - Agricultural drainage for soil conservation and enhanced production. 	<p>Thirty (30) participants for each session of program</p> <p>Total number will be 180, 3 extension officers from 54 DS divisions and 6 areas of Mahaweli System "H"</p>	DOA (central) with private sector assistance at ISTCs	3 days

Program	Participant	Objectives	Contents	No. of Participants	Executor	Time Frame
Training as a function of management and process of technology transfer	SMO, AI, FA of MASL who will take charge of farmer training at DS level	The participants will enhance and refresh their knowledge and skill on planning, implementation, monitoring and evaluation of training and thus carry out the training function to the set standard.	<ul style="list-style-type: none"> - Introduction to Training (history of training and definitions, use of training, advantageous etc) - Training Need Assessment (problem identification, identification of target group, gap between existing level and expected level of Knowledge, Attitude and Skill - Setting training objectives (program objective, course objective, lesson objective, etc.) - Subject Analysis - Training methods and materials. - Preparation of lesson plans and manuals - Room arrangement for different training programs - Conduct training - Monitoring and evaluation of training - Use of training equipment (OHP, Multimedia, Flipcharts, etc. - Factors to be considered in conducting training - Role of a trainer and a training manager 	<p>Thirty (30) participants for each session of program</p> <p>Total number will be 180, 3 extension officers from 54 DS divisions and 6 areas of Mahaweli System "H"</p>	DOA (central) with private sector assistance at ISTCs	5 days
Exposure visits for sharing experience of best agricultural practices	SMO, AI, FA of MASL who will take charge of farmer training at DS level	The main objective of the visits is to make the relevant officers exposed in the area of advanced agriculture to facilitate the dissemination of technology among farmers.	<ul style="list-style-type: none"> - Agricultural production process from planning to marketing - Observation of best agricultural practices adopted by farmers - Comparison of traditional practices and best practices - Economical advantageous of the best practices adopted - Management of problems and risks - Record keeping - Means of acquisition of technology 	<p>Thirty (30) participants for each session of program</p> <p>Total number will be 180, 3 extension officers from 54 DS divisions and 6 areas of Mahaweli System "H"</p>	DOA (central) with private sector assistance at ISTCs	3 days

Table A 5.11 Outline of Training on Feeding Improvement.

Name of Program	Objective	Participant	Contents	No. of Participants	Executor	Time frame
Production of micro silage	To acquire knowledge to improve the keeping quality and maintain nutritive value of grass and fodder	Dairy farmers	<ol style="list-style-type: none"> 1. Basics on ruminant nutrition 2. Feeds and feeding 3. Principles of silage making 4. Practical silage making 	Twenty (20) participants of each program	Subject matter specialists of the provincial DAPH	1 day
Production planning, financial and operational management of crop residue usage	To acquire knowledge to utilize crop residue as a feed	Dairy and crop farmers	<ol style="list-style-type: none"> 1. Basics on ruminant nutrition 2. Feeds and feeding 3. Economic value of crop residue 4. Basic processing of crop residue 	Twenty (20) participants of each program	Subject matter specialists of the provincial DAPH	1 day
Awareness and utilization of crop residue	To acquire knowledge to utilize crop residue as an enterprise	Dairy and crop farmers and investors	<ol style="list-style-type: none"> 1. Equipment and machinery used in processing 2. Basic knowledge on processing machinery 3. Collection of crop residue 4. Storage and packaging 5. Economics of processing 	Twenty (20) participants of each program	Subject matter specialists of the provincial DAPH	1 day
Technical training on products from crop residue	To acquire knowledge to improve the nutritive quality of crop residues for ruminant feeding	Dairy and crop farmers and investors	<ol style="list-style-type: none"> 1. Equipment and machinery used in processing 2. Ration formulation 3. Processing of crop residue to feed ruminants 4. Labeling and basic advertising 5. Packaging and marketing 6. Operational and financial planning 7. Project planning 	Twenty (20) participants of each program	Subject matter specialists of the provincial DAPH	1 day
Processing and marketing crop residue as an enterprise	To acquire knowledge to utilize crop residue as an enterprise	Dairy and crop farmers and investors	<ol style="list-style-type: none"> 1. equipment and machinery used in processing 2. Basic knowledge on processing machinery 3. Collection of crop residue 4. Storage and packaging 5. Economics of processing 	Twenty participants of each program	Subject matter specialists of the provincial DAPH	1 day

Table A 5.12 Outline of Training on Clean Milk Production and Market Network Development

Name of Program	Objective	Participant	Contents	No. of Participants	Executer	Time frame
Clean Milk Production	At the end of the training program participants will be able to acquire knowledge to reduce economic losses due to the spoilage of milk on the farm	Farmers producing milk to supply milk collecting network	<ol style="list-style-type: none"> 1. Characteristics of clean milk. 2. Sources of milk contamination 3. Conditions for clean milk production 4. Milk preservation on farm 5. Good milking procedure 6. Use of appropriate equipment 7. Practical exercise on hand milking and mastitis control 8. Personal hygiene 	20	Subject matter specialists of the provincial DAPH	1 day
Operation and maintenance of UHT processing plant	At the end of the training program participants will be able to acquire knowledge to operate and maintain a UHT processing plant	Semi-skilled operators in milk processing units	<ol style="list-style-type: none"> 1. Familiarization of the UHT plant 2. Basic requirements to operate the plant. 3. Hygienic standards of operation 4. Trouble shooting 5. Basic maintenance of plant 6. Personal hygiene 	5	Training should be provided by the supplier of the UHT plant	3 days
Establishment of effective milk collection network	At the end of the training program participants will be able to acquire knowledge to maintain the quality of milk throughout the collection and disposal process	Milk collectors from farmers	<ol style="list-style-type: none"> 1. Factors affecting the quality of milk before and after transportation 2. Hygienic cleaning and sanitation procedure 3. Personal hygiene 4. Basic quality control techniques 5. Guidelines to maintain quality of milk 	20	Subject matter specialists of the provincial DAPH or Health department	1 day
Market Planning and entrepreneurship development	At the end of the training program participants will be able to acquire knowledge to run a successful milk vending trade	Milk vendors	<ol style="list-style-type: none"> 1. Maintaining quality of milk 2. Personal hygiene 3. Good hygienic practices 4. Record keeping 5. Establishing key market information 6. Development of a market plan 7. Organizational and financial plan 8. Regulations and standards. 	20	Subject matter specialists of the provincial DAPH or Health department	1 day

Source: JICA Survey Team

Table A 5.13 List of Prescribed Projects to be required to carry out IEE/EIA

No.	Type of project	Detailed criteria
Part I Projects and undertaking if located wholly or partly outside the coastal zone as defined by Coast conservation Act No.57 of 1981		
1	All river basin development and irrigation projects excluding minor irrigation works	<ul style="list-style-type: none"> · If command area is more than 1,000 acre (404.6 ha) → Major irrigation scheme · If command area is more than 200 acre (80.9 ha) and less than 1,000 acre (404.6 ha) → Medium irrigation scheme · If command area is less than 200 acre (80.9 ha) → Minor irrigation scheme
2	Reclamation of land, wetland area exceeding 4 hectares	
3	Extraction of timber covering land area exceeding 5 hectares	
4	Conversion of forest covering an area exceeding 1 hectare into non-forest uses	
5	Clearing of land areas exceeding 50 hectares	
6	Mining and Mineral Extraction	<ul style="list-style-type: none"> · Inland deep mining and mineral extraction involving a depth exceeding 25 meters · Inland surface mining of cumulative areas exceeding 10 hectares · All off shore mining and mineral extractions · Mechanized mining and quarrying operations of aggregate, marble, limestone, silica, quarts and decorative stone within 1 kilometer of any residential or commercial areas
7	Transportation systems	<ul style="list-style-type: none"> · Construction of national and provincial highway involving a length exceeding 10 kilometers · Construction of railway lines · Construction of airports · Construction of airstrips · Expansion of airports or airstrips that increase capacity by 50 percent or more
8	Port and harbour development	<ul style="list-style-type: none"> · Construction of ports · Construction of harbours · Port expansion involving an annual increase of 50% or more in handling capacity per annum
9	Power generation and transmission	<ul style="list-style-type: none"> · Construction of hydroelectric power stations exceeding 50 Megawatts · Construction of thermal power plants having generation capacity exceeding 25 Megawatts at a single location or capacity addition exceeding 25 Megawatts to existing plants · Construction of nuclear power plants · All renewable energy based electricity generating stations exceeding 50 Megawatts
10	Transmission lines	<ul style="list-style-type: none"> · Installation of overhead transmission lines of length exceeding 10 kilometers and voltage above 50 kilovolts
11	Housing and building	<ul style="list-style-type: none"> · Integrated multi-development activities consisting of housing, industry, commercial infrastructure covering a land area exceeding 10 hectares
12	Resettlement	<ul style="list-style-type: none"> · Involuntary resettlement exceeding 100 families other than resettlement effected under emergency situations
13	Water supply	<ul style="list-style-type: none"> · All ground water extraction projects of capacity exceeding ½ million cubic meters per day · Construction of water treatment plants of capacity exceeding ½ million cubic meters
14	Pipelines	<ul style="list-style-type: none"> · Laying of gas and liquid (excluding water) transfer pipelines of length exceeding 1 kilometer
15	Hotels	<ul style="list-style-type: none"> · Construction of hotels or holiday resorts or projects which provide recreational facilities exceeding 99 rooms or 40 hectares, as the case may be
16	Fisheries	<ul style="list-style-type: none"> · Aquaculture development projects of extent exceeding 4 hectares · Construction of fisheries harbours · Fisheries harbour expansion projects involving an increase of 50% or more in fish handling capacity per annum
17	All tunneling projects	
18	Disposal of waste	<ul style="list-style-type: none"> · Construction of any solid waste disposal facility having a capacity exceeding 100 tons per day · Construction of waste treatment plants treating toxic or hazardous waste

No.	Type of project	Detailed criteria
19	Development of all Industrial Estates and Parks exceeding an area of 10 hectares	
20	Iron and Steel Industries	<ul style="list-style-type: none"> • Manufacture of iron and steel products of production capacity exceeding 100 tons per day using iron ore as raw material • Manufacture of iron and steel products of production capacity exceeding 100 tons per day using scrap iron ore as raw material
21	Non-Ferrous Basic Metal Industries	<ul style="list-style-type: none"> • Smelting of aluminum or copper or lead of production capacity exceeding 25 tons per day
22	Basic Industrial Chemicals	<ul style="list-style-type: none"> • Formulation of toxic chemicals of production capacity exceeding 50 tons per day • Manufacture of toxic chemicals of production capacity exceeding 25 tons per day
23	Pesticides and Fertilizers	<ul style="list-style-type: none"> • Formulation of pesticides of combined production capacity exceeding 50 tons per day • Manufacture of pesticides of combined production capacity exceeding 25 tons per day
24	Petroleum and Petrochemical	<ul style="list-style-type: none"> • Petroleum refineries producing gasoline, fuel oils, illuminating oils, lubricating oils and grease, aviation and marine fuel and liquefied petroleum gas from crude petroleum • Manufacture of petro-chemicals of combined production capacity exceeding 100 tons per day from production processes of oil refinery or natural gas separation
25	Tyre and Tube Industries	<ul style="list-style-type: none"> • Manufacture of tyre and tubes of combined production capacity exceeding 100 tons per day from natural or synthetic rubber
26	Sugar factories	<ul style="list-style-type: none"> • Manufacture of refined sugar of combined production capacity exceeding 50 tons per day
27	Cement and Lime	<ul style="list-style-type: none"> • Manufacture of Cement through production of clinker • Manufacture of lime employing kiln capacity exceeding 50 tons per day
28	Paper and Pulp	<ul style="list-style-type: none"> • Manufacture of paper or pulp of combined production capacity exceeding 50 tons per day
29	Spinning, Weaving and Finishing of Textiles	<ul style="list-style-type: none"> • Integrated cotton or synthetic textile mills employing spinning, weaving, dyeing and printing operations together of combined production capacity exceeding 50 tons per day
30	Tanneries and Leather Finishing	<ul style="list-style-type: none"> • Chrome tanneries of combined production capacity exceeding 25 tons per day • Vegetable (bark) of combined production capacity exceeding 50 tons per day
31	Industries which involved the manufacture, storage or use of Radio Active Materials as defined in the Atomic Energy Authority Act No. 19 of 1969 or Explosives as defined in the Explosives Act No. 21 of 1956, excluding for national security reasons	
Part II		
32	All projects and undertaking listed in Part I irrespective of their magnitudes and irrespective of whether they are located in the coastal zone or not, if located wholly or partly within the areas specified in Part III of the Schedule.	
32 (a)	Constructions of all commercial buildings as defined by the Urban Development Authority Law, No.41 of 1978 and the construction of dwelling housing units, irrespectively of heir magnitudes and irrespective of whether they are located in the coastal zone or not, if located wholly or partially within the areas specified in Part III of this schedule.	
33	Iron and Steel	
34	Non-Ferrous Basic Metal	
35	Basic Industrial Chemicals	
36	Pesticides and Fertilizers	
37	Synthetic Resins, Plastic materials and Man-made fibers	
38	Other Chemical Products	
39	Petroleum and Petro-chemical Products	
40	Tyres and Tubes	
41	Manufacturing and Refining of Sugar	
42	Alcoholic Spirits	
43	Malt Liquors and Malt	
44	Cement, clinker and Lime	
45	Non-metallic Mineral Products	
46	Papers, Pulp and Paperboard	
47	Spinning, Weaving and Finishing of Textile	
48	Tanneries and Leather finishing	

No.	Type of project	Detailed criteria
49	Shipbuilding and Repairs	
50	Railroad Equipment	
51	Motor Vehicles	
52	Air Craft	
Part III		
1	Within 100m from the boundaries of or within any area declared under the National Heritage Wilderness Act No.3 of 1988, the Forest Ordinance (Chapter 451); whether or not such area are wholly or partly within the Coastal Zone:	
2	Within the following area whether or not the areas are wholly or partly within the Coastal Zone:	
	<ul style="list-style-type: none"> • Any erodible are declared under the Soil Conservation Act (Chapter 540) • Any Flood Area declared under the Flood Protection Ordinance (Chapter 449) and any flood protection area declared under the Sri Lanka Land Reclamation and Development Corporation Act No.15 of 1968 as amended by Act No.52 of 1982. • 60 meters from the bank of a public stream as defined in the Crown Lands Ordinance (Chapter 454) and having a width of more than 25 meters at any point if it course. • Any reservation beyond the full supply level of a reservoir • Any archaeological reserve, ancient or protected monument as defined or declared under the Antiquities Ordinance (Chapter 188) • Any area declared under the Botanic Gardens Ordinance (Chapter 446) • Within 100 meters from the high flood level contour of within a public lake as defined in the Crown Lands Ordinance (Chapter 454) including those declared under section 71 of the said Ordinance 	

Source: http://www.cea.lk/Prescribed_Projects.php (Sited 2012/08/15)

Table A 5.14 List of Sensitive Sectors, Characteristics, and Areas

The project of sensitive sectors, characteristics, and areas shown in this illustrative list are those that will likely have a significant adverse impact on the environment and society. Each individual project is categorized in accordance with the standards for “Category A” indicated in the categorization section of the guidelines, depending on the impacts of the individual projects. Consequently, projects that are likely to have a significant adverse impact on the environment and society are categorized as “Category A” even if they are not included in the sectors, characteristic, or areas on the list.

Details	
Sensitive Sectors Large-scale <i>If project component will be located in the following sectors:</i>	(1) Mining, including oil and natural gas development (2) Oil and gas pipelines (3) Industrial development (4) Thermal power, including geothermal power (5) Hydropower, dams, and reservoirs (6) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging, or submarine electrical cables (7) River/erosion control (8) Roads, railways, and bridges (9) Airports (10) Ports and harbors (11) Water supply, sewage, and wastewater treatment that have sensitive characteristics or that are located in sensitive areas or in their vicinity (12) Waste management and disposal (13) Agriculture involving large-scale land clearing or irrigation
Sensitive Characteristics	(1) Large-scale involuntary resettlement (more than 200 project affected persons) (2) Large-scale groundwater pumping (3) Large-scale land reclamation, land development, and land clearing (4) Large-scale logging
Sensitive Areas <i>If projects in the following areas or their vicinity:</i>	(1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for ethnic minorities or indigenous peoples and cultural heritage, etc. designated by national governments) (2) Areas that are thought to require careful consideration by the country or locality, such as; Natural Environment a) Primary forests or natural forests in tropical areas b) Habitats with important ecological value (coral reefs, mangrove wetlands, tidal flats, etc.) c) Habitats of rare species that require protection under domestic legislation, international treaties, etc. d) Areas in danger of large-scale salt accumulation or soil erosion e) Areas with a remarkable tendency towards desertification Social Environment a) Areas with unique archeological, historical, or cultural value b) Areas inhabited by ethnic minorities, indigenous peoples, or nomadic peoples with traditional ways of life, and other areas with special social value

Source: JICA Guidelines for Environmental and Social Consideration, Appendix 3 (2010)

Table A 5.15 Check list of Environmental and Social Management System

No.	Questions	Answer	Improvement Plan
1. Policy			
(1)	Does the executing agency have any formal environmental policy or procedures? If yes, please describe them and provide appropriate documentation. If no, does the executing agency have any plan to set such policy or procedures?	Ministry of Economic Development as executing agency of this project does not have formal environmental policy or procedures. There is no plan to set such policy or procedures.	Improvement Plan is not required. National Environment Act (NEA) and its related regulations define the procedures for environment and social considerations in Sri Lanka. Existing CEA procedure is the regulatory framework to ensure the environment and social safeguard of Sri Lanka
(2)	Are there any types of projects in which the executing agency will not take part due to the environmental risks? (e.g., projects involving handling of hazardous wastes or endangered plants or animals).	The Ministry of Economic Development does not reject project due to the environmental risk. Under the CEA procedure, projects with high environment and social risk will be rejected or will propose alternatives or mitigation measures in the Environmental Management Plan prepared for each project/activity.	Improvement plan is not required. Under the CEA procedures, specific and careful attention will be paid for project within sensitive area with respective ministries and departments. Project with high risk for environment is screened through CEA procedures.
2. Procedures			
(3)	Does the executing agency have any environmental procedures such as screening, categorization and environmental review? If yes, please describe.	Ministry of Economic Development does not have environmental procedures. However, the Central Environmental Authority (CEA) acts as the main regulatory body for environment and social management in Sri Lanka. All project proponents (executing agency or implementing agency) must carry out the procedures established by the National Environment Act. In the procedure, there is screening, categorization and environmental review.	JICA Survey Team proposed a procedure for screening, categorization and environmental review to ensure that selected project component will not be categorized as Category A according to the JICA Guidelines. JICA Survey Team prepared a format of environmental and social screening to be filled out during preparation of project initial concept report by project implementing agency, and to be submitted to the PMU.
(4)	Please describe how the executive agency ensures that your subproject companies and their subprojects are operated in compliance with the national laws and regulations and applicable JICA's requirements.	In the foreign funded projects, the Ministry of Economic Development appoints local environmental consultants for each project (designing/ planning and implementation phases). Project implementing unit (PIU) submits environmental status and monitoring reports to the Ministry upon implementing EMP on identified projects for environmental risks/impacts.	JICA Survey Team proposed to establish an ESMS under the Ministry of Economic Development for this project.
3. Organization and Staff			
(5)	Please provide us with the organization chart of the executing agency's Environmental and Social Management System (ESMS).	There is not existing ESMS in the Ministry of Economic Development.	JICA Survey Team proposed a provisional ESMS for this project based on the Sri Lanka experience and practice.
(6)	Who is responsible for environmental and social management within the executing agency? (name/role and title)	At the moment, there is no such position or person on environmental and social management in the projects which they have undertaken. Their regular practice is to appoint a local environmental consultant under the Ministry of Economic Development in short term basis and he/she will report the Ministry about the status and issues with respect to environmental and social considerations.	JICA Survey Team proposes a position of environmental and social management staff in the ESMS Coordination Committee under the Ministry of Economic Development during this project period.

No.	Questions	Answer	Improvement Plan
(7)	Are there any staff with training for environmental and social considerations in the executing agency? If so, describe.	There is not staff with training for environmental and social considerations in the Ministry of Economic Development. The Ministry appoints for short term local environmental consultant if necessary. There is an Environment System Monitoring (ESM) officer within the MED to supervise the local environmental consultants in each project team.	JICA Survey Team proposes a position of environmental and social management staff under the MED during for this project period. The staff should be experienced and qualified.
(8)	Are there any technical staff with an engineering/industry background responsible for technical analysis of credit proposals?	MED does not have technical expertise in each sector. The analysis of proposals is done through a steering committee. A steering committee will be formed with relevant ministry and agencies included Ministry of Finance and National Planning.	JICA Survey Team proposed to establish Project Management Unit under the MED. Technical staff for analysis of credit proposals will be in the PMU.
(9)	What experience, if any, does the executing agency have of hiring or dealing with environmental consultants?	MED hires environmental consultant when their project required to carry out IEE/EIA and monitoring of EMP.	Improvement plan is not required.
(10)	What was the budget allocated to the ESMS and its implementation during a year? Please provide budget details including staff costs and training as well as any actual costs.	There is not ESMS in the Ministry of Economic Development.	JICA will confirm that the MED allocates budget for newly established ESMS for this project.
4. Monitoring and Reporting			
(11)	Does the executing agency receive environmental and social monitoring reports from subproject companies that the executing agency finances?	The common practice of the MED is to appoint environmental specialists (local consultant) under respective implementing agency. According to the EMP and its monitoring plan defined in the IEE/EIA report, an Environmental Monitoring Committee (EMC) will be set up for each project. The appointed environmental specialist is responsible on monitoring the activities as stated in EMP through an EMC. EMC produce timely progress reports on their monitoring out comes and report to the respective environmental specialist their observation in relation to the duly activation of EMP by the appointed contractor/agency. The ESM officer at MED will be aware about the environmental status through the appointed environmental consultant through timely progress reports. ESM officer at MED discusses the issues identified from progress reports if any at their steering committee and find solutions.	Improvement plan is not required.
(12)	Please describe how the executing agency monitors the subproject implementing agency and their subprojects social and environmental performance.	In addition, EMD has experiences of preparing an EMP monitoring manual by an expert appointed through the EMD, in the case of the World Bank funded project.	
(13)	Is there an internal process to report on social and environmental issues to senior management?	No.	Improvement plan is not required.

No.	Questions	Answer	Improvement Plan
(14)	Do you prepare any social and environmental reports: - For other multilateral agencies or other stake holders - E&S reporting in the Annual Report	No. According to the Ministry's experience, the implementing agency is responsible for preparing and submitting progress report of environmental and social monitoring and the report is checked by ESM officer of EMD. If there are any important environmental and social issues identified in the report, those will be discussed at the steering committee meeting.	JICA Survey Team prepared a format of Annual Environmental and Social Performance Report to JICA to be filled out by the ESMS specialist of ESMS Coordination Committee under the MED.
5. Experience			
(15)	Has the executing agency signed any national or international agreements or declarations concerning environmental issues?	No.	No improvement plan is required since the CEA is the main regulatory body for environmental issues in Sri Lanka.
(16)	Has the executing agency ever received any criticism of its environmental record? If so, what was the criticism?	Ministry of Economic Development has been acted as executing agency of sector loan projects funded by World Bank and ADB, and the MED had been managed to safeguard environmental and social considerations with no any criticism through a ESMS established in the regional level as explained above through an appointed consultant environmentalist on project basis with close coordination and communication with CEA as required.	No improvement plan is required.
(17)	Does the executing agency carry out environmental audits of its properties to analyze health and safety issues, waste disposal, etc.?	No. Under CEA procedures, the mentioned issues are always taken in consideration as a part of environmental management plan and the contractor should follow those conditions.	No improvement plan is required.
(18)	Please state any difficulties and/or constrains related to the implementation of the ESMS.	There is no difficulty.	No improvement plan is required.

Table A 5.16 Format for Environmental and Social Screening

Implementing Agency should conduct environmental and social screening to fill out this format, and then submit to Project Management Unit of executing agency (Ministry of Agriculture), with an initial concept report (ICR) of each proposed project.

JICA Survey Team prepared this format referring to the format of “Basic Information Questionnaire” of CEA and JICA Guidelines for Environmental and Social Considerations (2010), Appendix 4 Screening Format.

Name of Proposed Project		
Project Implementing Agency’s Contact Data		
Name		
Address		
Tel		
Fax		
e-mail address		
Environmental and Social Management Experts’ Data		
Name		
Tel		
e-mail address		
1	Brief description of proposed project	
2	Scale and magnitude of the project	
3	Main objectives of the project	
4	Location of the project • Pradeshiya Sabha • Divisional Secretariat • District • Provincial Council	
5	Extent of the project area	
6	Present land use	

7. Does the proposed project wholly or partly fall within any of the following areas?

Item	Yes	No	Unaware
100m from the boundaries of or within any area declared under the National Heritage Wilderness Act No.4 of 1988			
100m from the boundaries of or within any area declared under the Forest Ordinance (Chapter 451)			
Any Flood Area declared under the Flood Protection Ordinance (Chapter 449)			
Any flood protection area declared under the Sri Lanka Land Reclamation and Development Corporation Act 15 Of 1968 as amended by Act No.52 of 1982			
60 meters from the bank of a public stream as defined in the Crown Lands Ordinance (Chapter 454) and having width of more than 25 meters at any point of its course			
Any reservation beyond the full supply level of a reservoir			
Any archaeological reserve, ancient or protected monument as defined or declared under the Antiquities Ordinance (Chapter 188)			
Any area declared under the Botanic Gardens Ordinance (Chapter 446)			
Within 100 meters from the boundaries of, or within any area declared as a Sanctuary under the Fauna and Flora Protection Ordinance (Chapter 469)			

100 meters from the high flood level contour of or within, a public lake as defined in the Crown Lands Ordinance (Chapter 454) including those declared under section 71 of the said Ordinance			
Within a distance of one mile (1.6km) of the boundary of a National Reserve declared under the Fauna and Flora Protection Ordinance			
Areas that run the risk of a large scale increase in soil salinity or soil erosion			
Areas where is settlement of indigenous people			

8. Does the project require any

Item	Yes	No	If Yes, give the scale
Reclamation of land, wetlands			ha
Clearing of forest			ha
Felling of trees			trees
Groundwater pumping			m ³ /year
Land acquisition			ha buildings
Resettlement			households persons

9. Does the project will generate negative impacts as followings:

Environmental and social impact check list	Yes	No	If Yes, give description of possible impacts
Environmental components			
Topography and Geography			
Ground subsidence			
Underground water			
Soil Erosion			
Hydrology			
Fauna, Flora and Biodiversity			
Protected area			
Air pollution			
Global warming			
Water pollution			
Bottom sediment			
Soil pollution			
Noise and vibrations			
Offensive odors			
Waste			
Social components			
Water usage			
Local economies, such as employment, livelihood, etc.			
Land use and utilization of local resources			
Social institutions such as social infrastructure and local decision-making institutions			
Existing social infrastructures and services			
Misdistribution of benefits and damages			
Local conflicts of interest			
Limitation of accessibility to information, meetings, etc. on a specific person or group			
Gender			
Children's rights			
Infectious diseases such as HIV/AIDS			
Accidents			
Other possible impact ()			

Table A 5.17 Environmental and Social Categorization: Definition of Categorization¹

JICA classifies projects into four categories according to the extent of environmental and social impacts, taking into account an outline of project, scale, site condition, etc.

Category A:

Proposed projects are classified as Category A if they are likely to have significant adverse impacts on the environment and society. Projects with complicated or unprecedented impacts that are difficult to assess, or projects with a wide range of impacts or irreversible impacts, are also classified as Category A. These impacts may affect an area broader than the sites or facilities subject to physical construction. Category A, in principle, includes projects in sensitive sectors, projects that have characteristics that are liable to cause adverse environmental impacts, and projects located in or near sensitive areas. An illustrative list of sensitive sectors, characteristics, and areas is provided in Appendix 3 of the JICA Guidelines (2010).

Category B:

Proposed projects are classified as Category B if their potential adverse impacts on the environment and society are less adverse than those of Category A projects. Generally, they are site specific; few if any are irreversible; and in most cases, normal mitigation measures can be designed more readily.

Category C:

Proposed projects are categorized as Category C if they are likely to have minimal or little adverse impact on the environment and society and also **if they satisfy all of the following criteria:**

- 1) Not to be applied to the sensitive sectors, characteristics, and areas shown in Appendix 3 of the JICA Guidelines (2010).
- 2) No land acquisition or resettlement
- 3) Little environmental and social influence during civil works even in restoration of existing buildings (e.g. restoration of schools, public health care centre, vocational training centre; rehabilitation of existing distribution network and substations, procurement of well digging equipment for water supply etc)

¹ Excerpt from JICA Guidelines for Environmental and Social Considerations (April 2010)

Table A 5.18 Criteria for Project Components Selection

This table will be used for rapid environmental assessment conducted by the environmental and social management staff of each implementing agency. If project component is categorized as Category A, executing agency will not approve such project component.

no.	Criteria	Yes	No
1	Selected project component is an agriculture project involving large scale land clearing, deforestation or irrigation (more than 100 ha).		
2	Selected project component is a large-scale groundwater pumping project (the amounts of pumping water is more than 10,000,000m ³ /year).		
3	Selected project component requires large-scale land acquisition or resettlement (more than 200 persons).		
4	Selected project component is located in the sensitive areas such as: protected area under DWLC, DFC and DFAR; and archaeological area.		
5	Selected project component will generate adverse impact on indigenous community such as;		
5.1	- Resettlement		
5.2	- Land acquisition of more than 10% of indigenous people's property		
5.3	- Development in the land identified as socially important area for indigenous people		
5.4	- Damage to the community property of indigenous people (such as cultural and religious important building)		

Source: Prepared by JICA Survey Team based on the JICA Guidelines (2010)

Table A 5.19 Indigenous People Planning Framework

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- 1. Introduction**
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- 7. Grievance Redress Mechanism**
- 8. Institutional and Implementation Arrangements**
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Appendixes

- 1 Basic Data to be collected during Social Assessment**
- 2 Institutions related to an IPP Implementation**

1 Introduction

The goal of the project for Improvement of Agricultural Production and Productivity in Dry Zone Areas is to improve agricultural production and diversification of agriculture in the dry zone of the Northern province, Eastern province, North Central province, North Western province, and Uva province of Sri Lanka. There are two types of project components in this Project. One is agriculture crop related project, and the second is dairy industry related projects.–

However, the dairy industry related project components would not be implemented in the DS divisions where indigenous people settlements exist.

2 Objectives of IPPF and Policy Framework

This document provides the framework to develop Indigenous People Plan (IPP). The Project will define project components to be implemented under this project after signing the loan agreement between Government of Sri Lanka (GOSL) and Government of Japan (GOJ). Implementing agency should prepare an IPP according to this IPP framework, if any project component to be implemented within or surrounding area where indigenous people exists affecting their livelihood, culture or behaviors.

During the preparatory survey of the Project, it was revealed that some of the project components would be implemented in the villages where there are indigenous community settlements. Project components will not include activities such as; resettlement of indigenous people, acquisition of community land and their natural resources, commercial exploitation, use of natural resources which the indigenous people have collective attachment, and commercial development of cultural resources and knowledge. Therefore, significant negative impacts on the indigenous people are not foreseen. However it is important to prepare IPPF and IPP for this Project in order to ensure the prevention of negative impacts and to encourage positive impacts on IPs during the project planning and implementation stages.

Government of Sri Lanka has no specific regulation or a policy to safeguard the rights of indigenous people in Sri Lanka as indigenous people are considered as a part of the civil society in Sri Lanka. All the human rights and safeguard policies applicable to the citizens of GOSL are equally applied to the indigenous people as well and they are not considered as a separate group of people in the country while ensuring their cultural and traditional practices. However, there has been put various parliament statements and regulations recognizing the culture and rights for access to natural resources by the indigenous people. Sri Lanka is the member country of ILO but has not ratified the ILO Convention 169 concerning Indigenous and Tribal People in Independent Countries.

JICA Guidelines for Environmental and Social Consideration (“JICA Guidelines”) establishes with the aim of preventing or minimizing the occurrence of negative impacts due to project activities. If any negative impact is anticipated, effective mitigation measures or alternatives are proposed during the implementation stage. The Guidelines also mention that an Indigenous People Plan (IPP) should be prepared with prior, free, informed consultation with affected indigenous people and should obtain consent from the indigenous people.

3. Identification of Affected Indigenous Peoples

JICA Guidelines establish that “indigenous people” are identified by the following characteristics defined in the Operational Policy 4.10 (OP4.10) of the World Bank:

- (a) Self-identification as members of a distinct indigenous cultural group and recognition of this identity by others;
- (b) Collective attachment to geographically distinct habitats or ancestral territories in the project area and to the natural resources in these habitats and territories,
- (c) Customary cultural, economic ,social, or political institutions that are separate from those of the dominant society and culture; and
- (d) An indigenous language, often different from the official language of the country or region.

Based on the above characteristics, there is one ethnic group in Sri Lanka, called “Vedda” (in Sinhala) and “Velai” (in Tamil) people. The indigenous people population is not separately count during the census of Sri Lanka and therefore the number of indigenous people not documented. However, the island wide population of indigenous people has been estimated to be around 7,350 - 7,500, which is about 0.005% of national population in the study of “Socio-Anthropological Research Project on Vedda Community in Sri Lanka” carried out by Ministry of Culture and the Arts in 2011. There are few indigenous people settlements in Eastern, North Central and Uva Provinces. There is no enough previous studies and investigation on indigenous people in Sri Lanka.

Province	DSD	GND (Village)	Economic Activities	Type of Land Ownership	Language	Religion
Uva	Madulla	Galgamuwa GND (Rathugala)	Major economic activity is sustainable harvesting of forest resources and selling. Paddy – 5 % Chena – 72% Labour – 5% Honey cutting – 5% Army/police – 10% Businessman/Teaching/skilled labour – 3%	8.26% Land permit – 28.9% Other – 0.83 State land deed – 4.62% State land unauthorized – 13.85% Other – 1.54% Self owned – 40% Other pvt owner- 3.08% Land permit – 35.38% Share – 1.54%	Traditional – 5.8% Sinhala- 84.89 % Both – 9.3 %	No data
Population						
Families	Total (Male/Female)					
106	No data (No data)					

Source: Prepared by JICA Survey Team based on “Socio-Anthropological Research Project on Vedda Community in Sri Lanka”, Ministry of Culture and the Arts, 2011.

4. Social Impact Assessment and IPP for Project Components

Implementing agency will carry out a detailed social assessment, which will use a consultative approach and give voice to the indigenous people in the project area. The social assessment will be undertaken in two stages; 1) initial screening, and 2) detailed assessment. The objective of the initial screening is to identify the indigenous people living in the project area, according to the definition of indigenous people established on OP4.10 of World Bank. The objective of the detailed social assessment is to collect information and voice of indigenous people in the project area. **Appendix 1** shows the data to be collected during the detailed social assessment.

According to the detailed social assessment and prior, free, and informed consultation with indigenous people, an IPP will be prepared. IPP includes the following elements, as needed:

- Summary of the social assessment
- Summary of results of the free, prior, and informed consultation with the affected Indigenous Peoples’ communities
- Framework for ensuring free, prior, and informed consultation with the affected indigenous peoples’ communities during project implementation
- Action plan of measures to ensure that the indigenous peoples receive social and economic benefits that are culturally appropriate, including, if necessary, measures to enhance that capacity of the project implementing agencies
- Action plan of measures to avoid, minimize, mitigate, or compensate for adverse impacts to the indigenous community
- Cost estimates and financing plan for the IPP
- Grievance Redress Mechanism the affected indigenous peoples’ communities
- Mechanism and benchmarks for monitoring, evaluating, and reporting on the implementation of the IPP

5. Consultation and Participation

Consultations with indigenous people and participation of them are very important during the entire process of the project preparation and project implementing stages. Each Project Implementing Unit (PIU) under the implementing agency must conduct workshops and informed meetings with the indigenous community leaders, wider participants, government officers of GND (village) level and DS levels. At the workshops and meetings, the implementing agency has to explain clearly the project components and potential impact to the indigenous people. It is highly recommended that handouts will be prepared and given to the participants using an appropriate language which indigenous people can understand the content.

Affected indigenous people will be informed and consulted in preparing IPP. The IPP prepared in

consultation with affected indigenous people will be translated into Traditional language using Sinhala fonts and Tamil language².

Table 4 shows the activities required to prepare IPP during design stage and to implement IPP at the project implementing stage.

Table 4 Activities for inclusion of Indigenous People Issues

Project Stage	Actions to be required
Design Stage (Preparation of IPP)	<ul style="list-style-type: none"> • Identify location of indigenous people settlement in project components area • Identify indigenous community stakeholders in project components area • Identify environmental and social issues of indigenous community and possible impact to be generated by project components • Discussion on prevention, mitigation, and compensation plan for possible negative impact • Consultation with indigenous people for further suggestions to project components activities and IPP • Presentation of draft of IPP • Finalizing IPP taking into consideration of the indigenous people comments and opinions • Obtain consensus about IPP with affected indigenous people
Implementation Stage	<ul style="list-style-type: none"> • Implementation of IPP • Monitoring of IPP advance

Source: JICA Survey Team

6. Disclosure

The implementing agency will submit IPPF and IPP for disclosure on JICA's website.

The Environmental and Social Management expert of PIU will provide information to the all affected indigenous people. In addition, a brochure with IPP information will be prepared for affected indigenous people.

7. Grievance Redress Mechanism

The Project will have the Grievance Redressing Mechanism (GRM) for the affected persons, with emphasis on indigenous people and vulnerable people. The Project Implementing Unit (PIU) under the implementing agency will operate as the first actor of management of complaints.

The complaint resolution process will have two stages: the first one will be initiated by the environmental and social management staff of the PIU, and the second stage by the Project Management Unit (PMU) under the executing agency. The functions of the grievance redress mechanism are the following:

1. Guide and give advice to people who visit the office asking for information about the objectives, scopes and benefits of the project
2. Guide people in registering their complaints, concerns or requests, and explain the procedures and stages at their disposal
3. Attend rapidly complains from local people
4. Conduct field inspections in order to verify the registered complaints, through third party interviews and a survey of damages
5. Monitor the process of complaint resolution, from the date of its registration to its closing, which is verified for the corresponding record in the complaint registry
6. Develop individual files for recorded and addressed cases, which shall contain the type of complaint, field verification visits, and its resolution
7. Inform the complainant on the progress of the case resolution
8. Ensure that complaints are resolved rapidly; otherwise, guidance, advice, or information should be sought out from the implementing agency.

8. Institutional and Implementation Arrangements

Key institutional arrangements for preparation of Indigenous Peoples' Plan (IPP) will include the affected indigenous people, environmental and social management expert of the PMU under the Ministry of Agriculture, PIUs under each project implementing agency (Provincial Councils), NGOs and JICA. Key

² Indigenous people's traditional language is developed as a spoken language which is derived from Sinhala language, but no developed written language. Therefore indigenous people in southern area use Sinhala as the written language, and the people in Tamil speaking areas speak and write in Tamil language.

institutional arrangement for implementation of IPP will be included the actors mentioned above and other line agencies depending on the characteristics of project components. (See **Appendix 2**) There will be no land acquisition or resettlement activities take place during the project implementation stage and therefore it is not necessary to consider institutional arrangements on resettlement or land acquisition.

Table 5 defines the institutional roles and responsibilities for the preparation and implementation of IPPs.

Table 5 Institutional Roles and Responsibilities on IPP Preparation and Implementation

	Activities	Institution	Role and responsibility
1	Finalization of sites /alignment for project components	Implementing Agency	Will finalize the sites/selection of project components
		PMU	Will approve project components proposed by respective Implementing Agencies
2	Preliminary screening	PIU	Will conduct preliminary screening
3	Planning of Social Impact Assessment	PIU	Will plan Social Impact Assessment (SIA) of the affected indigenous community based on preliminary screening, and in compliance with JICA policy
4	Social Impact Assessment	PIU	Will collect and analyze required information in SIA, and will prepare SIA report
		AIP	Will be responsible for giving information to and participate with concerned officials
5	Recommendation for IPP preparation	PMU	Based on SIA report, and in compliance with the JICA policy, PMU will recommend IPP preparation
6	Formulation of mitigation measures and development of action plan	PIU	Will collect required information by consulting Indigenous people and their leaders and develop action plan with the involvement of PIA proposing suitable mitigation measures if any
7	Disclosure of IPP	PIA (PIU)	Will carry out information disclosure meetings to finalize IPP at community level
		AIP	Will participate in information disclosure meeting to give their opinions and comments for draft of IPP
		Local NGOs	Will contribute to carry out meeting under PIA instruction
		PMU	Will participate in information disclosure meeting
		JICA	Will publish IPP in their web site
8	Budget and financing plan	PIU	Will prepare budget and financing plan for implementation of IPP
		PMU	Will check allocation of budget for implementation of IPP by PIU
9	IPP approval from JICA	PMU	Will submit IPP to JICA
		JICA	Will review and approve the IPP
10	IPP implementation	AIP	Will participate each stage of IPP
		Implementing agency	Will appoint team of experts for IPP implementation
		Line agencies and local NGOs	Will be appointed by implementing agency, if necessary.
		JICA	Will review monitoring report

PMU: Project Management Unit, PIU: Project Implementing Unit, AIP: Affected Indigenous People, IPP: Indigenous People Plan
Source: JICA Survey Team

9. Monitoring and Reporting Arrangements

The PIU will form a monitoring team with qualified and experienced social expert, representative of indigenous people, regional officers from line agencies, and local NGOs. Monitoring system will take participatory monitoring approach. In IPP implementing stage, monitoring benchmark and monitoring report format will be defined. Monitoring report will be prepared and be submitted to the executing agency and JICA for review, approval, and disclosure.

Appendix 1 of IPPF Basic Data to be collected during Social Assessment

A. Demographic Data	
1)	Number of family, population, sex, Generation composition
2)	Mobility of population (inflow, outflow, work outside of home village, etc.)
3)	Employment, economic activities, income
4)	Language
5)	Education Level
B. Environmental Condition	
1)	Geology
2)	Land use, Type of land ownership, Natural resources
C. Infrastructure	
1)	Social Infrastructure (road, electricity, water supply, public traffic system, etc.)
2)	Social Service (government service, special support for poverty people)
D. Livelihood	
1)	History of the community
2)	Property of each family (vehicle, motor bicycle, television, telephone, etc.)
3)	Public health (portable water, sewage disposal, disease)
4)	Community activities (mutual system, festival, etc.)
5)	Stakeholders in the community
6)	Community's properties
7)	Vulnerable people
8)	Other specific characteristic of livelihood
E. Concerns and Problem	
1)	Religion, taboo
2)	Gender
3)	Dairy problem shared in the community

Source: JICA Guidelines for Environmental and Social Considerations (2010)

Appendix 2 of IPPF Institutions related to an IPP Implementation

Institution/Authority	Responsibility
Wild Life Conservation Department	– Responsible agency related to the activities dealing with wild life habitats, resources and protected areas
Forest Conservation Department	– Responsible agency related to the activities dealing with forest resources, felling of trees
Ministry of culture and Arts	– Responsible agency safeguarding cultural and traditional values of Indigenous people
Ministry of National heritage	– Responsible agency safeguarding cultural and traditional values of Indigenous people and preserving their heritage
Sri Lanka Cashew cooperation	– To establish and assist in the establishment of infrastructure necessary for the purpose of development of cashew plantations, processing facilities and marketing. – To undertake activities pertaining to the cultivation processing and marketing of cashew and cashew products
Ministry of indigenous medicine	– Responsible in the activities related to the cultivation of herbs and extension activities associated with it.
Coconut cultivation board	– To provide necessary guidance and support to coconut growers among Indigenous people – To develop and assist in development of production and productivity of land under coconut
Sri Lanka Samurdhi Authority	– To assist low income indigenous people to eliminate poverty and strengthening them economically through the implementation of income generating projects
Disaster Management Centre	– Assist disaster management program related to IPP
Ministry of Agriculture	– The main actor on improving agriculture related activities in IPP

Source: Prepared by JICA Survey Team based on the information obtained by the Ministry of Culture and the Arts

Table A 5.20 Outline of an Abbreviated Resettlement Action Plan for Project Component³

An abbreviated plan covers the following minimum elements:

- a) a census survey of displaced persons and valuation of assets;
- b) Description of compensation and other resettlement assistance to be provided;
- c) Consultations with displaced people about acceptable alternatives;
- d) Institutional responsibility for implementation and procedures for grievance redress;
- e) Arrangements for monitoring and implementation; and
- f) Time table and budget.

³ The World Bank OP4.12 Annex A

Table A 5.22 Qualification and Job Description of Experts.

1 Foreign Expert	Team Leader/ Project Management
Qualification	Team Leader should possess a university degree in civil engineering, irrigation engineering or agricultural engineering with at least 15 years experience in planning, implementation and monitoring & evaluation of irrigation rehabilitation or irrigated agriculture projects including minimum 5 years in JICA funded loan or grant projects.
Job Description	Team Leader will be responsible mainly to support PMU for his project management. Organizing and guiding each expert in management consultant team, preparation of overall & annual project work plans, preparation of project guidelines & procedures, coordination with relevant agencies including the JICA are the tasks of the Team Leader.
2 National Expert	Co-Team Leader/Monitoring Engineer
Qualification	The expert should possess a university degree in civil engineering with at least 15 years working experience in the field of design and construction supervision of irrigation & drainage development projects; Of the total experience, at least 5 years working experience in a donor funded rehabilitation project is must. Sufficient knowledge & experience in government procedures, rules and regulations related to contract administration, cash flow etc is essential.
Job Description	<ol style="list-style-type: none"> (1) Take the responsibility for the technical aspect in the consultant team. (2) Give the necessary advise and guidance to the PIU and project consultant in the rehabilitation work and monitoring the activities related the engineering. (3) Conducting the technical audit to all work carried out in the project (4) Support team leader for overall management of the consulting activities
3 Foreign Expert	Agriculture Marketing
Qualification	The expert should possess a university degree in agriculture marketing with at least 10 years working experience in the agricultural marketing field. Of the 10 years experience, at least 5 years should be in JICA funded loan or grant projects.
Job Description	<ol style="list-style-type: none"> (1) Review and analyze the marketing situation related to agricultural products and develop the necessary guidelines aiming to incubate the entrepreneur in the agriculture sector mainly trading the OFC, Vegetable and Fruits. (2) Prepare the guidelines for entrepreneurship development in agriculture business based on the field experience obtained during the project period.
4 Foreign Expert	Agriculture Fruit Crop Management
Qualification	The expert should possess a university degree in agriculture with at least 10 years working experience in the field of Fruit Crop management of which at least 5 years should be in JICA funded loan or grant projects.
Job Description	<ol style="list-style-type: none"> (1) Review the existing situation of the fruit crops covering varieties, cultivation practices, management, harvesting etc (2) Plan the necessary agricultural support activities for expansion of fruit crop (3) Review the existing training manual & materials in the country and modify where necessary to suit the project requirements
5 National Expert	Hydro Geologist
Qualification	The Hydro Geologist should possess a university degree in the similar discipline and have at least 8 years working experience in planning, design and construction supervision of hydro geological works in line with wells for pumping water for agricultural purposes. Working experience in donor funded projects which involved with construction of agro-wells or related activities will be an added qualification.
Job Description	<ol style="list-style-type: none"> (1) Study the ground water situation in the target areas and accordingly make recommendations for digging agro wells (2) Prepare the agro wells technical specifications and guiding and supervision of agro well construction program (3) Coordinate with Water Resource Board of Sri Lanka to carry out his functions effectively and efficiently
6 National Expert	Architect
Qualification	The Architect should possess a university degree in architectural science and have 8 years working experience in planning, designing and supervision of building works in government sector. Working experience in donor funded projects as an Architect or similar capacity will be an added qualification.

Job Description	<ol style="list-style-type: none"> (1) Review and modify the existing design of buildings such as Dedicated Economic Centers, Training Centers, and Collecting Centers (2) Supervise construction works of buildings and installation of training facilities (3) Assist the related program implementation.
7 National Expert	Senior Agronomist
Qualification	The Senior Agronomist should possess a university degree with at least 10 years actual working experience in the field of agriculture covering study, planning and implementation is essential. Of the total experience, at least 3 years should be in senior management level. Possessing Master Degree in Agriculture and having work experience in donor funded projects will be an added qualification.
Job description	<ol style="list-style-type: none"> (1) Prepare and supervise implementation of the agricultural development program consisting of OFC, Vegetables and Fruits (2) Prepare implementation guide lines, review and modify existing training manuals and materials to suit the project needs (3) Coordination with implementing agencies and relevant individual actors in agriculture sector (4) Give necessary advise and monitoring the activities carried out in PIU and project consultant
8 National Expert	Senior Livestock Expert
Qualification	Senior livestock expert should possess a university degree in veterinary science or agriculture specialized in animal science with at least 10 years working experience in the field of livestock development activities, of which 3 years should be in senior management level. Working experience in donor funded projects and possessing Master Degree in relevant field will be an added qualification.
Job description	<ol style="list-style-type: none"> (1) Review the existing situation of livestock sector in the project area in line with project objectives. (2) Prepare and implement livestock program under the project (3) Monitoring of the activities carried out under PIU and give necessary advise (4) Preparation of guideline for sustainable production of feed concentrate made of agriculture by product (5) Necessary central level coordination of breeding and goat program
9 National Expert	Project Monitoring & Evaluation
Qualification	A university graduate in Project management, engineering or agriculture with at least 8 years experience in government sector in which 3 years in senior management level and 5 years in the field of monitoring & evaluation of special projects. The graduates who have followed project management courses and having M&E work experience in donor funded development projects will earn an additional qualification.
Job description	<ol style="list-style-type: none"> (1) Prepare and implement monitoring & evaluation plan for the project (2) Train and guide relevant staff for data collection and reporting, and (3) Prepare periodical M&E reports and forward to the management with recommendations
10 National Expert	Procurement
Qualification	A graduate engineer with at least 08 years experience in which 05 years in relevant field of Procurement or a certificate holder of recognized Procurement Course and having 10 years experience in relevant field of Procurement.
Job Description	<ol style="list-style-type: none"> (1) Study the national procurement guidelines & JICA procurement guideline in line with the project and prepare the project procurement plan (2) Receive, examine and processes requisitions, prepare bid specifications and other necessary documents related to purchasing, locate source of suppliers and place orders with appropriate bidders

Table A 5.23 Breakdown of Total Project Cost

No.	Item / Program	Total Investment Cost (Rs. mil.)	Eligible Portion			Non-eligible Portion (Rs. Mil.)	Remarks
			F/C	L/C	Total		
			(JPY mil.)	(Rs. Mil.)	(JPY mil.)		
1.	Mobilization of PMU and PIUs						
	Mobilization of PMU and PIUs	176	105	0	105	0	
2.	Agricultural Crop Promotion Program	9,015	3,335	3,442	5,389	0	
2-1	Productivity Improvement Program (Agricultural Crop)	7,574	2,827	2,852	4,529	0	
	1) Rehabilitation of irrigation facility	3,885	1,512	1,360	2,323	0	
	i) Individual sub schemes	2,417	940	846	1,446	0	7 schemes
	ii) Major tank rehabilitation	137	53	48	82	0	5 schemes
	iii) Medium tank rehabilitation	489	190	171	292	0	32 schemes
	iv) Minor tank rehabilitation	842	327	295	503	0	71 schemes
	2) Agro well provision	2,694	1061	920	1,611	0	5,671 nos for new & rehab.
	3) Micro irrigation system	206	53	118	123	0	
	4) Enhancement of supply chain of quality seed and planting material	790	201	454	472	0	
2-2	Logistic System Improvement and Entrepreneurs Development Program	1,323	461	552	790	0	
	1) Established of proper interface and incubation	341	107	161	204	0	
	2) Improvement of farmers' storage facility	231	69	116	138	0	
	3) Upgrading of DEC and construction of collecting centre	86	26	43	51	0	
	4) Rural road and farm access road rehabilitation	655	255	229	392	0	
	5) Study tour	9	4	3	5	0	
2-3	Program on Enhancement of Extension Services and Ground Level Research	118	47	38	70	0	
	1) Training to extension officers	7	0	7	4	0	
	2) Training facility improvement	81	35	22	48	0	
	3) Overseas training	30	12	9	18	0	
3.	Livestock Product Promotion Program	1,042	303	536	627	0	
3-1	Productivity Improvement Program of Milk	702	189	386	420	0	
	1) Milk production improvement program	702	189	386	420	0	
3-2	Program on Market Development on Fresh Milk	187	58	91	112	0	
	1) Milk marketing program	161	58	65	97	0	
	2) Training of milk production and market network improvement	26	0	26	15	0	
3-3	Livestock Service Quality and Accessibility Improvement Program	153	56	59	95	0	
	1) Improvement of cold chain for semen transport	8	0	8	8	0	
	2) Livestock Training Program	7	0	7	4	0	
	3) Livestock services program	138	56	44	83	0	
4.	Sub-Total of 1 to 3 (Base Cost for Programs and PMU Mobilization)	10,233	3,743	3,978	6,121	0	
5.	Price Contingency of 4	1,276	328	728	763	0	FC:2.1%, LC:4.0%/year
6.	Physical Contingency of 4	575	204	235	345	0	=(4+5) x 5%
	Sub-Total 1 to 6	12,084	4,275	4,941	7,229	0	
7.	Consulting Services						
7-1	Base Cost	2,462	392	1,806	1,472	0	
7-2	Price Contingency	359	29	310	214	0	FC:2.1%, LC:4.0%/year
7-3	Physical Contingency	141	21	106	84	0	=(4+5) x 5%
	Sub-Total 7	2,962	442	2,222	1,770	0	
Total 1 to 7 (Eligible Portion)		15,046	4,717	7,163	8,999	0	
8.	Administration and Other Cost	3,283				3,283	
	1) Administration Cost	704				704	incl. 4.0% escalation
	2) Tax & Duty	1,890				1,890	
	3) Interest during Construction	674				674	0.01% for CS, 1.4% for others
	4) Commitment Charge	15				15	0.1% of Eligible portion
GRAND TOTAL 1 to 8		18,329	4,717	7,163	8,999	3,283	

Note : US\$ 1.0 = JPY 79.0
= Rs. 132.0
JPY 1.0 = Rs. 0.598

Source : estimated by JICA Study Team

No.	Program	Inputs	Q'ty	Unit	Amount (Rs.1,000)												Remarks			
					Zone-01			Zone-02			Zone-03			Zone-04				Total		
					Eligible			Eligible			Eligible			Eligible				Eligible		
					F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total		F/C	L/C	Total
1.	Mobilization of PMU and PIUs																			
	Incorporated in the Summary																			
2.	Agricultural Crop Promotion Program				2,241,955	1,284,704	3,526,659	1,528,896	991,578	2,520,474	1,189,410	756,880	1,946,291	613,018	408,865	1,021,883	5,573,279	3,442,027	9,015,306	
2-1	Productivity Improvement Program (Agricultural Crop)				1,970,878	1,111,658	3,082,537	1,174,617	745,258	1,919,876	1,051,102	657,056	1,708,158	526,678	337,698	864,376	4,723,276	2,851,670	7,574,946	
	1) Rehabilitation of irrigation facility				1,468,401	790,678	2,259,079	511,672	275,516	787,188	498,397	268,368	766,765	47,102	25,363	72,464	2,525,572	1,359,924	3,885,496	
	i) Individual sub schemes	7	scheme		993,887	535,170	1,529,057	244,287	131,539	375,827	333,167	179,397	512,564				1,571,341	846,107	2,417,448	
	- Kurai Tank augmentation and Parangi aru	1	LS		269,335	145,026	414,361									269,335	145,026	414,361		
	- Welmaruthamu Irrigation scheme	1	LS		80,759	43,485	124,244									80,759	43,485	124,244		
	- Muthayankaddu Tank Lift Irrigation Scheme	1	LS		395,959	213,208	609,167									395,959	213,208	609,167		
	- Vavunikulam Tank - Right & Left Banks Lift	1	LS		247,835	133,450	381,285									247,835	133,450	381,285		
	- Mahaweli System H scheme	1	LS					244,287	131,539	375,827						244,287	131,539	375,827		
	- Ingimitiya scheme	1	LS								268,032	144,325	412,357			268,032	144,325	412,357		
	- Neelabemma Scheme (Phase II)	1	LS								63,135	35,072	100,207			63,135	35,072	100,207		
	ii) Major tank rehabilitation	5	scheme		25,349	13,649	38,998	52,523	28,282	80,805	11,461	6,172	17,633	0	0	0	89,333	48,103	137,436	
	iii) Medium tank rehabilitation	32	scheme		271,901	146,408	418,310	30,057	16,184	46,241	12,882	6,937	19,819	2,870	1,545	4,415	317,710	171,075	488,785	
	iv) Minor tank rehabilitation	71	scheme		177,264	95,450	272,714	184,805	99,510	284,315	140,887	75,862	216,749	44,232	23,817	68,049	547,188	294,640	841,827	
	2) Agro well provision				437,584	227,044	664,627	522,636	272,072	794,708	383,347	199,390	582,737	430,059	221,625	651,684	1,773,626	920,131	2,693,757	
	- Construction of new agro wells	2,670	nos		230,100	123,900	354,000	280,598	151,091	431,688	204,306	110,011	314,317	217,229	116,969	334,198	932,232	501,971	1,434,204	
	- Rehabilitation of agro wells	3,001	nos		129,420	69,688	199,107	156,975	84,525	241,500	115,089	61,971	177,060	122,334	65,872	188,206	523,817	282,056	805,873	
	- Provision of pumps and accessories	5,671	set		78,064	33,456	111,520	85,064	36,456	121,520	63,952	27,408	91,360	90,496	38,784	129,280	317,576	136,104	453,680	
	3) Micro irrigation system				14,945	12,945	27,890	23,902	33,844	57,746	27,037	41,159	68,195	22,110	29,664	51,775	87,994	117,612	205,606	
	- Sprinkler irrigation for 500m2	200	set		11,512	4,934	16,445	11,512	4,934	16,445	11,512	4,934	16,445	11,512	4,934	16,445	46,046	19,734	65,780	
	- Drip irrigation system	2,248	ha		3,433	8,011	11,445	12,390	28,911	41,301	15,525	36,225	51,750	10,599	24,731	35,330	41,948	97,878	139,826	
	4) Enhancement of supply chain of quality seed and planting material				49,949	80,992	130,941	116,407	163,826	280,233	142,321	148,140	290,461	27,408	61,046	88,453	336,084	454,004	790,088	
	i) Provision of equipment & machinery for seed laboratory				1,002	0	1,002	0	0	0	1,002	0	1,002	501	0	501	2,505	0	2,505	
	- Tool equipment & machinery	5	set		1,002	0	1,002	0	0	0	1,002	0	1,002	501	0	501	2,505	0	2,505	
	ii) Provision of seed farms				9,065	8,885	17,950	0	0	0	8,325	12,425	20,750	5,275	5,975	11,250	22,665	27,285	49,950	
	- Vaunia farm	1	LS		6,875	7,375	14,250									6,875	7,375	14,250		
	- Kantale farm	1	LS		2,190	1,510	3,700									2,190	1,510	3,700		
	- Wariyapola seed farm	1	LS								4,000	6,000	10,000			4,000	6,000	10,000		
	- Galganuwa seed farm	1	LS								4,325	6,425	10,750			4,325	6,425	10,750		
	- Okkampitiya farm	1	LS											5,275	5,975	11,250	5,275	5,975	11,250	
	iii) Farmer training program on quality self-seed & planting material production				0	840	840	0	2,191	2,191	0	375	375	0	297	297	0	3,703	3,703	
	- Quality self-seed production for OFCs				0	615	615	0	1,592	1,592	0	200	200	0	179	179	0	2,586	2,586	
	- Certified seed production for OFCs				0	205	205	0	531	531	0	67	67	0	60	60	0	863	863	
	- Quality planting material production for fruits				0	20	20	0	68	68	0	108	108	0	58	58	0	254	254	
	iv) Farmer training program on improvement of farm management etc.				0	24,690	24,690	0	29,460	29,460	0	57,420	57,420	0	27,540	27,540	0	139,110	139,110	
	- Farm management improvement	43,200	day		0	7,200	7,200	0	8,640	8,640	0	18,000	18,000	0	9,360	9,360	0	43,200	43,200	
	- OFCs production improvement	22,890	day		0	2,310	2,310	0	2,940	2,940	0	10,080	10,080	0	7,560	7,560	0	22,890	22,890	
	- Fruits production improvement	29,820	day		0	7,980	7,980	0	9,240	9,240	0	11,340	11,340	0	1,260	1,260	0	29,820	29,820	
	- Study tour	180	time		0	7,200	7,200	0	8,640	8,640	0	18,000	18,000	0	9,360	9,360	0	43,200	43,200	
	v) Supply of machinery and equipment				39,882	46,577	86,459	116,407	132,175	248,582	132,994	77,920	210,914	21,632	27,234	48,865	310,914	283,906	594,820	
	- Manual highland seeder for pulses	368	no.		635	1,481	2,115	3,888	9,072	12,960	378	882	1,260	68	158	225	4,968	11,592	16,560	
	- Highland weeder	368	no.		705	1,645	2,350	4,320	10,080	14,400	420	980	1,400	75	175	250	5,520	12,880	18,400	
	- Ridger	184	no.		72	168	240	432	1,008	1,440	42	98	140	6	14	20	552	1,288	1,840	
	- Ground nut decorticating machine	52	no.		21	49	70	120	280	400	12	28	40	3	7	10	156	364	520	
	- Pulse splitting machine	134	no.		972	2,268	3,240	5,616	13,104	18,720	540	1,260	1,800	108	252	360	7,236	16,884	24,120	
	- Pulse cleaning machine	134	no.		270	630	900	1,560	3,640	5,200	150	350	500	30	70	100	2,010	4,690	6,700	
	- Grinding machine for flour making	397	no.		1,823	4,253	6,076	4,297	10,025	14,322	651	1,519	2,170	614	1,432	2,046	7,384	17,230	24,614	
	- Barbed wire fence	1,942	km		10,982	25,626	36,608	22,968	53,592	76,560	8,791	20,513	29,304	8,527	19,897	28,424	51,269	119,627	170,896	

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Table A 5.24 Cost Breakdown for Program Cost by Zone(1/3)

1.0US\$ = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Amount (Rs.1,000)															Remarks
					Zone-01			Zone-02			Zone-03			Zone-04			Total			
					Eligible			Eligible			Eligible			Eligible			Eligible			
					F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	
		- Electric fence (protect from elephants)	570	km	24,402	10,458	34,860	73,206	31,374	104,580	122,010	52,290	174,300	12,201	5,229	17,430	231,819	99,351	331,170	with solar system
2-2	Logistic System Improvement and Entrepreneurs Development Program				258,288	169,762	428,050	329,328	239,868	569,196	126,146	96,656	222,803	56,731	45,930	102,662	770,493	552,217	1,322,710	
		1) Established of proper interface and incubation			45,219	40,877	86,097	36,815	33,475	70,289	65,430	59,084	124,515	32,043	28,035	60,077	179,507	161,471	340,978	
		i) Establishment of collecting points			45,219	40,877	86,097	36,815	33,475	70,289	65,430	59,084	124,515	32,043	28,035	60,077	179,507	161,471	340,978	
		- Facilities for collecting point	108	place	40,877	40,877	81,755	33,475	33,475	66,949	59,084	59,084	118,169	28,035	28,035	56,069	161,471	161,471	322,942	
		- Equipment for collecting points	108	set	4,342	0	4,342	3,340	0	3,340	6,346	0	6,346	4,008	0	4,008	18,036	0	18,036	
		2) Improvement of farmers' storage facility			31,050	31,050	62,100	63,300	63,300	126,600	10,950	10,950	21,900	10,350	10,350	20,700	115,650	115,650	231,300	
		- Renovation of farmers' storage, onion	2,590	no	14,700	14,700	29,400	16,050	16,050	32,100	3,600	3,600	7,200	4,500	4,500	9,000	38,850	38,850	77,700	
		- Renovation of farmers' storage, chili	5,120	no	16,350	16,350	32,700	47,250	47,250	94,500	7,350	7,350	14,700	5,850	5,850	11,700	76,800	76,800	153,600	
		3) Upgrading of DEC and construction of collecting centre																		
		i) Upgrading of DEC			0	0	0	43,000	43,000	86,000	0	0	0	0	0	0	43,000	43,000	86,000	
		- Dambulla at DA Matale	1	LS				32,000	32,000	64,000							32,000	32,000	64,000	
		- Thambuttegama at Anuradapura	1	LS				11,000	11,000	22,000							11,000	11,000	22,000	
		4) Rural road and farm access road rehabilitation			180,424	97,152	277,576	184,619	99,410	284,030	48,172	25,939	74,111	12,745	6,862	19,607	425,960	229,363	655,324	
		- Improvement of access roads to market	86.0	km	84,411	45,452	129,863	120,867	65,082	185,949	19,332	10,409	29,741	5,281	2,844	8,125	229,891	123,787	353,678	
		- Improvement of farm roads	541.9	km	96,014	51,700	147,713	63,752	34,328	98,081	28,840	15,529	44,370	7,463	4,019	11,482	196,070	105,576	301,646	
		5) Study tour			1,594	683	2,277	1,594	683	2,277	1,594	683	2,277	1,594	683	2,277	6,376	2,732	9,108	
		- To potential impact countries	1	LS	901	386	1,287	901	386	1,287	901	386	1,287	901	386	1,287	3,604	1,544	5,148	
		- To active export countries	1	LS	693	297	990	693	297	990	693	297	990	693	297	990	2,772	1,188	3,960	
2-3	Program on Enhancement of Extension Services and Ground Level Research				12,789	3,284	16,073	24,951	6,452	31,403	12,162	3,168	15,330	29,608	25,237	54,845	79,510	38,140	117,650	
		1) Training to extension officers			0	1,502	1,502	0	2,888	2,888	0	1,386	0	1,155	0	1,155	0	6,930	6,930	
		i) Project Awareness	1,800	day	0	293	293	0	563	563	0	270	0	225	0	225	0	1,350	1,350	
		- Farm management improvement	2,520	day	0	546	546	0	1,050	1,050	0	504	0	420	0	420	0	2,520	2,520	
		ii) Best Practices in OFC Cultivation	540	day	0	117	117	0	225	225	0	108	0	90	0	90	0	540	540	
		iii) Best Practices in Fruit Cultivation	540	day	0	117	117	0	225	225	0	108	0	90	0	90	0	540	540	
		iv) Farm Business Management	900	day	0	195	195	0	375	375	0	180	0	150	0	150	0	900	900	
		v) Exposure visits for experience sharing	540	day	0	234	234	0	450	450	0	216	0	180	0	180	0	1,080	1,080	
		2) Training facility improvement			8,631	0	8,631	16,635	0	16,635	8,004	0	8,004	25,450	22,300	47,750	58,720	22,300	81,020	
		- DATC Bibile at Moneragala											4,000	6,000	10,000	4,000	6,000	10,000		
		- ISTC Bindunuwewa at Badulla											14,700	16,300	31,000	14,700	16,300	31,000		
		- Motor cycle	180	no	8,151	0	8,151	15,675	0	15,675	7,524	0	7,524	6,270	0	6,270	37,620	0	37,620	
		- Personal computer	20	no	480	0	480	960	0	960	480	0	480	480	0	480	2,400	0	2,400	
		3) Overseas training			4,158	1,782	5,940	8,316	3,564	11,880	4,158	1,782	5,940	4,158	1,782	5,940	20,790	8,910	29,700	
		- Overseas training for OFCs	5	person	2,772	1,188	3,960	5,544	2,376	7,920	2,772	1,188	3,960	2,772	1,188	3,960	13,860	5,940	19,800	
		- Overseas training for fruit	5	person	1,386	594	1,980	2,772	1,188	3,960	1,386	594	1,980	1,386	594	1,980	6,930	2,970	9,900	
3.	Livestock Product Promotion Program				140,064	108,088	248,153	157,375	167,237	324,612	129,946	167,544	297,490	78,925	92,894	171,818	506,310	535,763	1,042,073	
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer				69,777	60,379	130,156	89,258	113,899	203,157	97,799	138,487	236,286	59,004	72,985	131,989	315,839	385,750	701,588	
		1) Milk production improvement program			69,777	60,379	130,156	89,258	113,899	203,157	97,799	138,487	236,286	59,004	72,985	131,989	315,839	385,750	701,588	
		i) Feeding Project																		
		- Individual Fodder Development (Unit) 5 years	3,751	plot	5,310	5,310	10,620	11,700	23,400	12,000	12,000	24,000	8,500	8,500	17,000	37,510	37,510	75,020		
		- Straw Bailing Unit	100	unit	50,528	21,655	72,182	52,399	22,457	74,856	46,785	20,051	66,835	37,428	16,041	53,468	187,139	80,203	267,342	
		- Bio-mass Pelletting units	10	unit	7,486	3,208	10,694	14,971	6,416	21,387	7,486	3,208	10,694	7,486	3,208	10,694	37,428	16,041	53,468	
		- Grass choppers	60	unit	6,370	2,730	9,100	10,010	4,290	14,300	5,460	2,340	7,800	5,460	2,340	7,800	27,300	11,700	39,000	
		- Supply of seeds of pasture and legumes	60	pack	84	36	120	178	76	254	168	72	241	131	56	187	561	241	802	20 kg/pack
		Sub-Total			69,777	32,939	102,716	89,258	44,939	134,197	71,899	37,671	109,570	59,004	30,145	89,149	289,939	145,694	435,632	
		ii) Breeding program																		
		- Estrus Synchronization(head for 5 years)	48,000	time	0	12,000	12,000	0	32,000	32,000	0	32,000	32,000	0	20,000	20,000	0	96,000	96,000	
		- Artificial Insemination(times for 5 years)	200,000	time	0	12,800	12,800	0	33,000	33,000	0	33,400	33,400	0	20,800	20,800	0	100,000	100,000	

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Table A 5.24 Cost Breakdown for Program Cost by Zone (2/3)

1.0USS = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Amount (Rs.1,000)															Remarks	
					Zone-01			Zone-02			Zone-03			Zone-04			Total				
					Eligible			Eligible			Eligible			Eligible			Eligible				
					F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total		
		Sub-Total			0	24,800	24,800	0	65,000	65,000	0	65,400	65,400	0	40,800	40,800	0	196,000	196,000		
		iii) Goat breeding program																			
		- Goat breeding farm	3,800	place	0	0	0	0	0	0	20,900	20,900	41,800	0	0	0	20,900	20,900	41,800		
		- Breeding female goat	600	head	0	0	0	0	0	0	6,600	6,600	6,600	0	0	0	6,600	6,600	6,600		
		- Provision & rehabilitation of facility for Thelahara	1	LS							5,000	5,000	10,000	0	0	0	5,000	5,000	10,000		
		- Goat provision	3,452	head	0	2,400	2,400	0	3,600	3,600	0	2,556	2,556	0	1,800	1,800	0	10,356	10,356		
		Sub-Total			0	2,400	2,400	0	3,600	3,600	25,900	35,056	60,956	0	1,800	1,800	25,900	42,856	68,756		
		iv) Training for feeding improvement																			
		- Production planning, financial management etc.	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		- Awareness and utilization of crop residue	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		- Technical training on products from crop residue	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		- Improving nutritive quality of crop residue	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		Sub-Total			0	240	240	0	360	360	0	360	360	0	240	240	0	1,200	1,200		
		3-2 Program on Market Development on Fresh Milk through Enhancement of Cooperative or Sm			42,055	31,519	73,574	35,505	29,990	65,495	14,348	18,348	32,696	4,263	11,269	15,532	96,171	91,126	187,297		
		1) Milk marketing program																			
		- Issuing Milk Canister 40L	210	no	0	777	777	0	867	867	0	748	748	0	748	748	0	3,140	3,140		
		- Issuing Milk Canister 20L	3,000	no	0	4,544	4,544	0	5,942	5,942	0	6,291	6,291	0	4,194	4,194	0	20,970	20,970		
		- Mobile Milk sale	20	unit	1,820	780	2,600	1,820	780	2,600	2,184	936	3,120	1,456	624	2,080	7,280	3,120	10,400		
		- UHT Milk Processing	8	unit	37,428	16,041	53,468	28,071	12,030	40,101	9,357	4,010	13,367	0	0	0	74,856	32,081	106,937		
		- Chilling Tank 1500 liters	10	no	2,807	1,203	4,010	5,614	2,406	8,020	2,807	1,203	4,010	2,807	1,203	4,010	14,035	6,015	20,051		
		Sub-Total			42,055	23,344	65,399	35,505	22,025	57,530	14,348	13,188	27,536	4,263	6,769	11,032	96,171	65,326	161,497		
		2) Training of milk production and market network improvement																			
		- Clean milk production (1 day training)		day	0	7,800	7,800	0	7,500	7,500	0	4,800	4,800	0	4,200	4,200	0	24,300	24,300		
		- O&M of UHT processing plant (3 day training)		day	0	135	135	0	165	165	0	135	135	0	105	105	0	540	540		
		- Establishment of effective milk collection (3 day training)		day	0	120	120	0	150	150	0	105	105	0	90	90	0	465	465		
		- Market planning etc. (3 day training)		day	0	120	120	0	150	150	0	120	120	0	105	105	0	495	495		
		Sub-Total			0	8,175	8,175	0	7,965	7,965	0	5,160	5,160	0	4,500	4,500	0	25,800	25,800		
		3-3 Livestock Service Quality and Accessibility Improvement Program (Milk)			28,232	16,190	44,422	32,612	23,348	55,960	17,800	10,709	28,509	15,657	8,641	24,298	94,301	58,888	153,188		
		1) Improvement of cold chain for semen transport																			
		- Liquid Nitrogen Tank	5	no	0	390	390	0	780	780	0	390	390	0	390	390	0	1,950	1,950		
		- Semen canister (Big)	5	no	0	650	650	0	1,300	1,300	0	650	650	0	650	650	0	3,250	3,250		
		- Semen canister (Middle)	12	no	0	156	156	0	312	312	0	234	234	0	234	234	0	936	936		
		- AI kits	100	set	0	499	499	0	749	749	0	416	416	0	416	416	0	2,080	2,080		
		Sub-Total			0	1,695	1,695	0	3,141	3,141	0	1,690	1,690	0	1,690	1,690	0	8,216	8,216		
		1) Livestock Training Program																			
		i) Training of trainers	2,055	time	0	1,740	1,740	0	2,400	2,400	0	1,065	1,065	0	960	960	0	6,165	6,165		
		ii) Training of input suppliers	500	time	0	188	188	0	233	233	0	180	180	0	150	150	0	750	750		
		Sub-Total			0	1,928	1,928	0	2,633	2,633	0	1,245	1,245	0	1,110	1,110	0	6,915	6,915		
		2) Livestock services program																			
		i) Livestock service center																			
		- Construction of livestock service center	60	place	12,567	12,567	25,135	17,574	17,574	35,148	7,774	7,774	15,549	5,841	5,841	11,681	43,757	43,757	87,513		
		- Pickup track	10	unit	12,532	0	12,532	12,532	0	12,532	8,354	0	8,354	8,354	0	8,354	41,772	0	41,772		
		- Motor cycle	42	no	3,133	0	3,133	2,506	0	2,506	1,671	0	1,671	1,462	0	1,462	8,772	0	8,772		
		Sub-Total			28,232	12,567	40,799	32,612	17,574	50,186	17,800	7,774	25,574	15,657	5,841	21,498	94,301	43,757	138,057		
		4. Consulting Services																			
		Incorporated in the Summary																			
		5. Administration Cost of PMU & PDOA																			
		Incorporated in the Summary																			
		GRAND TOTAL			2,382,019	1,392,792	3,774,812	1,686,271	1,158,815	2,845,086	1,319,357	924,424	2,243,781	691,942	501,759	1,193,701	6,079,669	3,977,790	10,057,459		
		check					3,774,812		2,845,086			2,243,781			1,193,701		10,057,459	check			

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Table A.5.24 Cost Breakdown for Program Cost by Zone (3/3)

Table A 5.25 Breakdown of Consulting Service Cost

Item	Unit	Q'ty	F/C (Yen 1,000)		L/C (Rs.1,000)		Total	
			Unit rate	Amount	Unit rate	Amount	(Yen 1,000)	(Rs.1000)
(1) Remuneration and salary								
Professional (A)	MM	122	2,350	286,700			286,700	479,043
Professional (B)	MM	1,973			350	690,550	413,284	690,550
Sub professional	MM	3,463			150	519,450	310,883	519,450
Supporting staff/Office Manager		3,508						
Accountant/Office Manager	MM	370			121	44,770	26,794	44,770
Office Clerk	MM	444			80	35,520	21,258	35,520
Secretary	MM	444			50	22,200	13,286	22,200
Computer operator	MM	444			100	44,400	26,573	44,400
Office Aid	MM	444			30	13,320	7,972	13,320
Driver	MM	1,362			50	68,100	40,757	68,100
Sub-total (1) (round)				286,700		1,438,310	1,147,507	1,917,353
(2) Direct cost								
International air fare	Trip	21	200	4,200			4,200	7,018
Mobilization cost for Professional (A)	Time	6	15	90			90	150
Per Diem for Pro (A)	Month	122	300	36,600			36,600	61,154
Procurement of Vehicle	No.	21	2,500	52,500			52,500	87,722
Procurement of motorcycle	No.	62	200	12,400			12,400	20,719
Hotel accommodation for short term Pro (A)	Month	12			300	3,600	2,155	3,600
Accommodation for Pro (A)	Month	72			300	21,600	12,927	21,600
Out of station allowance for Pro (B)	Day	5,919			2	11,838	7,085	11,838
Lodging cost for Pro (B)	MM	1,973			50	98,650	59,041	98,650
Initial office set up cost	place	6			1,000	6,000	3,591	6,000
Office supply	Month	444			50	22,200	13,286	22,200
Office equipment procurement cost	LS	1			10,000	10,000	5,985	10,000
O&M for vehicle & motorcycle	Month	66			1,782	117,612	70,389	117,612
Vehicle rental charge	Month	18			1,000	18,000	10,773	18,000
Communication cost	Month	74			50	3,700	2,214	3,700
Report preparation cost	Month	74			30	2,220	1,329	2,220
Survey & Geological Investigation	LS	1			20,000	20,000	11,970	20,000
Baseline survey and M&E	LS	1			10,000	10,000	5,985	10,000
Ground water survey	Location	60			200	12,000	7,182	12,000
Contingency	LS	1			10,000	10,000	5,985	10,000
Sub-total (2) (round)				105,790		367,420	325,685	544,183
Grand Total for the Project				392,490		1,805,730	1,473,192	2,461,536
Exchange rate : 1.0 US\$ =	79.0	Yen						
1.0 US\$ =	132.0	Rs.						

Table A 6.1 Economic Prices of Crops and Fertilizers

Item	Unit	Financial (Rs.)	Item	Unit	Financial (Rs.)
Products			Fertilizers		
- Paddy	kg	25.9	Fertilizer for paddy		
- Maize	kg	22.2	- Urea	kg	49.3
- Krakkan	kg	60.0	- TSP	kg	56.3
- Green gram	kg	170.0	- MOP	kg	66.7
- Black gram	kg	160.0	- TDM	kg	57.4
- Cowpea	kg	135.0	- Mixture	ton	57.4
- Gingelly	kg	120.0	- Poultry manure	ton	-
- Soybean	kg	48.5	- Others	ha	-
- Groundnut	kg	99.0	Fertilizer for other crops		
- Red onion	kg	87.0	- Urea	kg	49.3
- Big onion	kg	67.0	- TSP	kg	56.3
- Chillies	kg	100.0	- MOP	kg	66.7
- Pumpkin	kg	20.0	- TDM	kg	57.4
- Brinjal	kg	38.5	- Mixture	kg	57.4
- Bitter gourd	kg	51.0	- Poultry manure	ton	20,000.0
- Capsicum	kg	90.5	- Compost fertilizer	ton	20,000.0
- Tomato	kg	48.5	- Others*	ha	22,000.0
- Banana	kg	20.0			
- Pineapple	fruit	42.5	Agro-chemicals		
- Pineapple	kg	34.0	Herbicide		
- Papaw	fruit	21.6	- Paddy	ha	6,764.5
- Papaw	kg	33.2	- OFC (excluding onions and chillies)	ha	3,818.0
- Passion fruit	kg	51.3	- Vegetables (including onions and chillies)	ha	4,905.3
- Mango	kg	58.2	- Fruits	ha	10,084.5
- Orange	fruit	9.6	Pesticide		
- Orange	kg	76.8	- Paddy	ha	3,494.3
- Lime	kg	60.0	- OFC (excluding onions and chillies)	ha	3,477.7
- Pomegranate	kg	48.6	- Vegetables (including onions and chillies)	ha	28,676.5
- Guava	kg	66.4	- Fruits	ha	8,831.2
			Hormone for pineapple		
				ha	3,610.0
Seeds, suckers and seedlings			Farm Machinery		
- Paddy	kg	64.0	- Land preparation	ha	12,730.0
- Maize	kg	588.3	- Irrigation by pump	ha	22,420.0
- Krakkan	kg	66.0	- Threshing and winnowing	ton	2,327.5
- Green gram	kg	263.0	- Transportation of production	ton	361.0
- Black gram	kg	178.0			
- Cowpea	kg	154.0	Labour		
- Gingelly	kg	183.0	- Hired labour	prn-day	481.0
- Soybean	kg	120.2	- Family labour	prn-day	481.0
- Groundnut	kg	111.0			
- Red onion	kg	112.0	Others		
- Big onion	kg	3,738.9	- Support of tomato	ha	42,655.0
- Chillies	kg	1,758.6	- Support of passion fruit	ha	66,690.0
- Pumpkin	kg	16,990.1			
- Brinjal	kg	8,981.9			
- Bitter gourd	kg	5,117.5			
- Capsicum	kg	9,887.0			
- Tomato	kg	26,315.5			
- Banana	No.	21.6			
- Pineapple	No.	5.3			
- Papaw	No.	32.5			
- Passion fruit	No.	16.2			
- Mango	No.	108.2			
- Orange	No.	108.2			
- Lime	No.	162.2			
- Pomegranate	No.	27.1			
- Guava	No.	16.2			

Note: * Amonia, CU3 and Hydro are applied to some vegetables.

Source: JICA Survey Team

Table A 6.2 Economic Price of Paddy

	Import Parity			Export Parity		
	Operation	US\$/ton	Rs/Kg	Operation	US\$/ton	Rs/Kg
1. Price Forecast of rice, Bangkok, Thailand, f.o.b.		387.0			387.0	
2. Quality Adjustment 95 (10% broken)		367.7			367.7	
3. Insurance, freight, etc.		40.0				
4. Forecast 2012 c.i.f. price of rice, Colombo		407.7			367.7	
			52.7			47.5
5. Port handling, storage and losses	5% +		2.6	5% -		2.4
6. Transportation (port to wholesaler)	+		2.0	-		2.0
7. Ex-wholesaler price			57.3			43.2
8. Marketing Margin	10% -		5.7	10% -		4.3
9. Local transportation (village to wholesaler)	-		2.0	-		2.0
10. Value of Milled Rice			49.6			36.8
11. Conversion of Paddy	68%		33.7	68%		25.1
12. Milling Cost	-		2.5	-		2.5
13. Local transportation (farm to village)	-		1.0	-		1.0
14. Economic farm gate price			30.2			21.6
15. Average economic farm gate price of import and export parity					25.9	

1. Thai 5% broken rice, price forecast in nominal US\$ in 2025, converted to 2012 constant price
- Projection in 2025 480
 - MUV index 2012-2025 1.24
 - Projection in 2025 by constant price in 2012 387
4. 1US\$=129.3Rs

Source: JICA Survey Team

Table A 6.3 Economic Price of Maize

	Import Parity			Export Parity		
	Operation	US\$/ton	Rs/Kg	Operation	US\$/ton	Rs/Kg
1. Price Forecast of maize, Gulf Ports, USA, f.o.b.		185.0			185.0	
2. Insurance, freight, etc.		60.0				
3. Forecast 2012 c.i.f. price of maize, Colombo		245.0			185.0	
			31.7			23.9
4. Port handling, storage and losses	5% +		1.6	5% -		1.2
5. Transportation (port to wholesaler)	+		2.0	-		2.0
6. Ex-wholesaler price			35.3			20.7
7. Local transportation (village to wholesaler)	-		2.0	-		2.0
8. Marketing Margin	10% -		3.5	10% -		2.1
9. Local transportation (farm to village)	-		1.0	-		1.0
10. Economic farm gate price			28.7			15.7
11. Average economic farm gate price of import and export parity					22.2	

1. USA maize, forecast in nominal US\$ in 2025, converted to 2012 constant price
- Projection in 2025 230
 - MUV index 2012-2025 1.24
 - Projection in 2025 by constant price in 2012 185
4. 1US\$=129.3Rs

Source: JICA Survey Team

Table A 6.4 Economic Price of Soybeans

	Import Parity			Export Parity		
	Operation	US\$/ton	Rs/Kg	Operation	US\$/ton	Rs/Kg
1. Price Forecast of soybeans, Rotterdam, USA, f.o.b.		411.0			411.0	
2. Insurance, freight, etc.		60.0				
3. Forecast 2012 c.i.f. price of maize, Colombo		471.0			411.0	
4. Port handling, storage and losses	5% +		60.9			53.1
5. Transportation (port to wholesaler)	+		3.0	5% -		2.7
6. Ex-wholesaler price			2.0	-		2.0
7. Local transportation (village to wholesaler)	-		65.9			48.5
8. Marketing Margin	10% -		2.0	-		2.0
9. Local transportation (farm to village)	-		6.6	10% -		4.8
10. Economic farm gate price			1.0	-		1.0
11. Average economic farm gate price of import and export parity			56.4		48.5	40.6

1. USA soybeans, price forecast in nominal US\$ in 2025, converted to 2012 constant price
- Projection in 2025 510
 - MUV index 2012-2025 1.24
 - Projection in 2025 by constant price in 2012 411
4. 1US\$=129.3Rs

Source: JICA Survey Team

Table A 6.5 Economic Farmgate Prices of Fertilizers

	Unit	Urea		TSP		MOP	
		US\$	Rs.	US\$	Rs.	US\$	Rs.
1. Bulk Price in 2025 Forecast *1	US\$/t	242.0		298.0		371.0	
2. Freight to Colombo	US\$/t	60.0		60.0		60.0	
3. c.i.f. Colombo	US\$/t	302.0		358.0		431.0	
	Rs./kg		39.0		46.3		55.7
4. Handling Cost *2	Rs./kg		8.2		8.0		9.0
5. Transportation Cost to the Study Area *2	Rs./kg		1.6		1.6		1.6
6. Profit Margin *2	Rs./kg		0.4		0.4		0.4
7. Farmgate Price	Rs./kg		49.3		56.3		66.7

* 1US\$=129.3Rs

*1 World Bank Commodity Price Forecast in June/2012

*2 From 4-7, the actual cost is provided by the National Fertilizer Secretariat, Ministry of Agrarian Development and Wild Life

Source: JICA Survey Team

Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under With-project Conditions (OFC)

	Unit	Black gram			Cowpea			Green gram			Soybean			Groundnut		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																
Yield	(kg)	160.0	1,800.0	288,000.0	135.0	1,500.0	202,500.0	170.0	1,800.0	306,000.0	48.5	2,500.0	121,234.3	99.0	2,500.0	247,500.0
B. Production Cost																
1) Seeds	(kg)	263.0	30.0	7,890.0	154.0	35.0	5,390.0	263.0	24.0	6,312.0	120.2	50.0	6,007.5	111.0	154.0	17,094.0
2) Fertilizers																
- Urea	(kg)	49.3	65.0	3,203.8	49.3	65.0	3,203.8	49.3	65.0	3,203.8	49.3	100.0	4,928.9	49.3	65.0	3,203.8
- TSP	(kg)	56.3	100.0	5,631.9	56.3	100.0	5,631.9	56.3	100.0	5,631.9	56.3	150.0	8,447.9	56.3	100.0	5,631.9
- MOP	(kg)	66.7	75.0	5,002.4	66.7	75.0	5,002.4	66.7	75.0	5,002.4	66.7	50.0	3,334.9	66.7	75.0	5,002.4
- TDM	(kg)	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0
- Mixture	(kg)	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0
- Poultry manure	(ton)	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0
- Others	(ha)	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0
Sub-total				13,838.1			13,838.1			13,838.1			16,711.7			13,838.1
3) Agro-chemicals																
- Herbicide	(ha)	3,818.0	1.0	3,818.0	3,818.0	0.0	0.0	3,818.0	1.0	3,818.0	3,818.0	0.0	0.0	3,818.0	0.0	0.0
- Pesticide	(ha)	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7
Sub-total				7,295.7			3,477.7			7,295.7			3,477.7			3,477.7
4) Machinery																
- Land preparation	(ha)	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0
- Irrigation by pump	(ha)	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0
- Threshing and winnowing	(ton)	2,327.5	1.8	4,189.5	2,327.5	1.5	3,491.3	2,327.5	1.8	4,189.5	2,327.5	2.5	5,818.8	2,327.5	2.5	5,818.8
- Transportation of production	(ton)	361.0	1.8	649.8	361.0	1.5	541.5	361.0	1.8	649.8	361.0	2.5	902.5	361.0	2.5	902.5
Sub-total				17,569.3			16,762.8			17,569.3			19,451.3			19,451.3
5) Human labor																
- Hired	(psn)	481.0	27.0	12,987.0	481.0	12.0	5,772.0	481.0	40.0	19,240.0	481.0	32.0	15,392.0	481.0	32.0	15,392.0
- Family	(psn)	481.0	25.0	12,025.0	481.0	84.0	40,404.0	481.0	32.0	15,392.0	481.0	84.0	40,404.0	481.0	84.0	40,404.0
Sub-total			52.0	25,012.0		96.0	46,176.0		72.0	34,632.0		116.0	55,796.0		116.0	55,796.0
6) Support	(Rs)			0.0			0.0			0.0			0.0			0.0
7) Miscellaneous (5%)				3,580.3			4,282.2			3,982.4			5,072.2			5,482.9
Total Cost																
- Including family labour	(Rs)			75,185.3			89,926.7			83,629.4			106,516.3			115,139.9
C. Net Return																
- Including family labour	(Rs)			212,814.7			112,573.3			222,370.6			14,718.0			132,360.1

**Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under
With-project Conditions (OFC and Paddy)**

	Unit	Chilli (Green)			Red onion			Big onion			Paddy Irrigated		
		Unit	Amount	Value	Unit	Amount	Value	Unit	Amount	Value	Unit	Amount	Value
		Price (Rs)		(Rs)	Price (Rs)		(Rs)	Price (Rs)		(Rs)	Price (Rs)		(Rs)
A. Gross Income													
Yield	(kg)	100.0	11,000.0	1,100,000.0	87.0	15,500.0	1,348,500.0	67.0	18,000.0	1,206,000.0	25.9	5,500.0	142,419.7
B. Production Cost													
1) Seeds	(kg)	1,758.6	1.8	3,077.6	112.0	1,406.2	157,494.4	3,738.9	7.7	28,789.5	64.0	139.3	8,915.2
2) Fertilizers													
-Urea	(kg)	49.3	255.0	12,568.6	49.3	139.0	6,851.1	49.3	200.0	9,857.7	49.3	274.0	13,505.1
- TSP	(kg)	56.3	145.0	8,166.3	56.3	290.0	16,332.6	56.3	185.0	10,419.1	56.3	101.0	5,688.3
- MOP	(kg)	66.7	130.0	8,670.8	66.7	0.0	0.0	66.7	0.0	0.0	66.7	89.0	5,936.1
- TDM	(kg)	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0
- Mixture	(kg)	57.4	150.0	8,615.3	57.4	321.0	18,436.8	57.4	520.0	29,866.4	57.4	0.0	0.0
- Poultry manure	(ton)	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0
- Others	(ha)	22,000.0	1.0	22,000.0	22,000.0	1.0	22,000.0	22,000.0	1.0	22,000.0	22,000.0	0.0	0.0
Sub-total				60,021.0			63,620.5			72,143.2			25,129.5
3) Agro-chemicals													
- Herbicide	(ha)	4,905.3	0.0	0.0	4,905.3	1.0	4,905.3	4,905.3	1.0	4,905.3	6,764.5	1.0	6,764.5
- Pesticide	(ha)	28,676.5	1.0	28,676.5	28,676.5	1.0	28,676.5	28,676.5	1.0	28,676.5	3,494.3	1.0	3,494.3
Sub-total				28,676.5			33,581.8			33,581.8			10,258.8
4) Machinery													
- Land preparation	(ha)	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0
- Irrigation by pump	(ha)	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0
- Threshing and winnowing	(ton)	2,327.5	0.0	0.0	2,327.5	0.0	0.0	2,327.5	0.0	0.0	2,327.5	5.5	12,801.3
- Transportation of production	(ton)	361.0	11.0	3,971.0	361.0	15.5	5,595.5	361.0	18.0	6,498.0	361.0	5.5	1,985.5
Sub-total				16,701.0			18,325.5			19,228.0			27,516.8
5) Human labor													
- Hired	(psn)	481.0	146.0	70,226.0	481.0	175.0	84,175.0	481.0	210.0	101,010.0	481.0	32.0	15,392.0
- Family	(psn)	481.0	228.0	109,668.0	481.0	62.0	29,822.0	481.0	89.0	42,809.0	481.0	35.0	16,835.0
Sub-total			374.0	179,894.0		237.0	113,997.0		299.0	143,819.0		67.0	32,227.0
6) Support	(Rs)			0.0			0.0			0.0			0.0
7) Miscellaneous (5%)				14,418.5			19,351.0			14,878.1			5,202.4
Total Cost													
- Including family labour	(Rs)			302,788.6			406,370.2			312,439.6			109,249.6
C. Net Return													
- Including family labour	(Rs)			797,211.4			942,129.8			893,560.4			33,170.1

Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under
With-project Conditions (Fruit Summary)

	Unit	Banana: 5-year Ave.			Papaw: 4-year Average			Passion fruit: 5-Yr Ave.			Mango: 20-Yr Ave.			Orange: 15-Yr Ave.			Lime: 15-Yr Ave.					
		Unit	Price	Amount	Value	Unit	Price	Amount	Value	Unit	Price	Amount	Value	Unit	Price	Amount	Value	Unit	Price	Amount	Value	
		(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)
A. Gross Income																						
Yield	(kg)	20.0	20,000.0	400,000.0	33.2	25,000.0	830,000.0	51.3	14,000.0	718,200.0	58.2	20,000.0	#####	76.8	12,000.0	921,600.0	60.0	23,000.0	#####			
B. Production Cost																						
1) Suckers	(kg)	21.6	220.0	4,757.9	32.5	281.3	9,136.4	16.2	225.0	3,644.6	108.2	5.3	568.2	108.2	37.5	4,054.8	162.2	46.7	7,571.5			
2) Fertilizers		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0				
- Urea	(kg)	49.3	425.0	20,949.6	49.3	553.7	27,290.6	49.3	332.5	16,388.1	49.3	140.1	6,905.3	49.3	223.1	10,994.6	49.3	284.1	14,002.2			
- TSP	(kg)	56.3	283.4	15,958.7	56.3	320.3	18,038.2	56.3	592.6	33,372.6	56.3	170.2	9,585.6	56.3	276.5	15,574.2	56.3	301.3	16,967.0			
- MOP	(kg)	66.7	885.0	59,030.7	66.7	1,167.0	77,838.7	66.7	296.3	19,761.4	66.7	76.8	5,122.4	66.7	125.9	8,399.5	66.7	79.9	5,330.8			
- TDM	(kg)																					
- Mixture	(kg)																					
- Compost	(ton)	20,000.0	4.8	96,000.0	20,000.0	11.0	220,000.0	20,000.0	10.0	200,000.0	20,000.0	10.0	200,000.0	20,000.0	6.0	119,493.3	20,000.0	11.0	220,000.0			
- Others	(ha)	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	1.0	22,000.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0			
Sub-total				191,939.0			343,167.5			291,522.1			221,613.3			154,461.7						256,300.0
3) Agro-chemicals				0.0	0.0					0.0	0.0											
- Herbicide	(ha)	10,084.5	1.0	10,084.5	10,084.5	0.0	0.0	10,084.5	0.0	0.0	10,084.5	1.0	10,084.5	10,084.5	1.0	10,084.5	10,084.5	1.0	10,084.5			
- Pesticide	(ha)	8,831.2	0.8	7,065.0	8,831.2	1.0	8,831.2	8,831.2	1.0	8,831.2	8,831.2	1.0	8,389.6	8,831.2	1.0	8,831.2	8,831.2	1.0	8,831.2			
- Hormone	(ha)	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0			
Sub-total				17,149.5			8,831.2			8,831.2			18,474.1			18,915.7						18,915.7
4) Machinery		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0				0.0
Land preparation	(ha)	12,730.0	0.2	2,546.0	12,730.0	0.3	3,182.5	12,730.0	0.2	2,546.0	12,730.0	0.1	636.5	12,730.0	0.1	848.7	12,730.0	0.1	848.7			848.7
Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	22,420.0	1.0	22,420.0	22,420.0	1.0	22,420.0	22,420.0	1.0	22,420.0	22,420.0	1.0	22,420.0	22,420.0	1.0	22,420.0			22,420.0
Transport produce per ton	(ton)	361.0	20.0	7,220.0	361.0	25.0	9,025.0	361.0	14.0	5,054.0	361.0	20.0	7,220.0	361.0	12.0	4,332.0	361.0	23.0	8,303.0			8,303.0
Sub-total				32,186.0			34,627.5			30,020.0			30,276.5			27,600.7						31,571.7
5) Human labor																						
- Hired	(psn)	481.0	57.2	27,513.2	481.0	108.8	52,352.1	481.0	105.4	50,697.4	481.0	76.0	36,556.0	481.0	45.2	21,741.2	481.0	65.7	31,617.7			
- Family	(psn)	481.0	87.8	42,231.8	481.0	167.7	80,644.4	481.0	163.8	78,787.8	481.0	119.6	57,527.6	481.0	71.1	34,215.1	481.0	102.7	49,382.7			
Sub-total		0.0	145.0	69,745.0	0.0	276.5	132,996.5	0.0	269.2	129,485.2	0.0	195.6	94,083.6	0.0	116.3	55,956.3	0.0	168.4	81,000.4			
6) Support																						
- Poles and wires	(ha)	66,690.0	0.0	0.0	66,690.0	0.0	0.0	70,200.0	0.0	0.0	66,690.0	0.1	3,334.5	0.0	0.0	0.0	0.0	0.0	0.0			0.0
7) Miscellaneous (5%)		0.0	0.0	15,788.9	0.0	0.0	26,438.0	0.0	0.0	23,175.2	0.0	0.0	18,417.5	0.0	0.0	13,049.5	0.0	0.0	19,768.0			
Total Cost																						
- Including family labour		0.0	83%	331,566.2	0.0	138%	555,197.0	0.0	121%	486,678.2	0.0	96%	386,767.8	0.0	68%	274,038.7	0.0	103%	415,127.2			
C. Net Return																						
- Including family labour		0.0	16%	68,433.8	0.0	66%	274,803.0	0.0	55%	231,521.8	0.0	186%	777,232.2	0.0	155%	647,561.3	0.0	231%	964,872.8			

Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under With-project Conditions (Banana)

	Unit	Unit Price (Rs)	Banana: 1st Year		Banana: 2nd Year		Banana: 3rd Year		Banana: 4th Year		Banana: 5th Year		Banana: 5-year Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income															
Yield	(kg)	20.0	0.0	0.0	23,000.0	460,000.0	35,000.0	700,000.0	26,000.0	520,000.0	16,000.0	320,000.0	20,000.0	400,000.0	
B. Production Cost															
1) Suckers	(kg)	21.6	1,100.0	23,789.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	220.0	4,757.9	
2) Fertilizers															
- Urea	(kg)	49.3	462.0	22,771.3	415.8	20,494.2	415.8	20,494.2	415.8	20,494.2	415.8	20,494.2	425.0	20,949.6	
- TSP	(kg)	56.3	308.0	17,346.4	277.2	15,611.7	277.2	15,611.7	277.2	15,611.7	277.2	15,611.7	283.4	15,958.7	
- MOP	(kg)	66.7	962.0	64,163.8	865.8	57,747.4	865.8	57,747.4	865.8	57,747.4	865.8	57,747.4	885.0	59,030.7	
- Compost	(ton)	20,000.0	8.0	160,000.0	0.0	0.0	8.0	160,000.0	8.0	160,000.0	0.0	0.0	4.8	96,000.0	
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				264,281.5		93,853.3		253,853.3		253,853.3		93,853.3		191,939.0	
3) Agro-chemicals															
- Herbicide	(ha)	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	
- Pesticide	(ha)	8,831.2	0.0	0.0	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	0.8	7,065.0	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				10,084.5		18,915.7		18,915.7		18,915.7		18,915.7		17,149.5	
4) Machinery															
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2,546.0	
- Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	
- Transport produce per ton	(ton)	361.0	0.0	0.0	23.0	8,303.0	35.0	12,635.0	26.0	9,386.0	16.0	5,776.0	20.0	7,220.0	
Sub-total				35,150.0		30,723.0		35,055.0		31,806.0		28,196.0		32,186.0	
5) Human labor															
- Hired	(psn)	481.0	110.0	52,910.0	44.0	21,164.0	44.0	21,164.0	44.0	21,164.0	44.0	21,164.0	57.2	27,513.2	
- Family	(psn)	481.0	171.0	82,251.0	67.0	32,227.0	67.0	32,227.0	67.0	32,227.0	67.0	32,227.0	87.8	42,231.8	
Sub-total				281.0	135,161.0	111.0	53,391.0	111.0	53,391.0	111.0	53,391.0	111.0	53,391.0	145.0	69,745.0
6) Support															
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				23,423.3		9,844.2		18,060.8		17,898.3		9,717.8		15,788.9	
Total Cost															
- Including family labour				491,890.0		206,727.2		379,275.8		375,864.3		204,073.8		331,566.2	
C. Net Return															
- Including family labour				-491,890.0		253,272.8		320,724.2		144,135.7		115,926.2		68,433.8	

Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under With-project Conditions (Papaw)

	Unit	Unit Price (Rs)	Papaw: 1st Year		Papaw: 2nd Year		Papaw: 3rd Year		Papaw: 4th Year		Papaw: 4-year Average	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income												
Yield	(kg)	33.2	0.0	0.0	32,500.0	1,079,000.0	36,000.0	1,195,200.0	31,500.0	1,045,800.0	25,000.0	830,000.0
B. Production Cost												
1) Seedlings	(kg)	32.5	1,125.0	36,545.6	0.0	0.0	0.0	0.0	0.0	0.0	281.3	9,136.4
2) Fertilizers												
- Urea	(kg)	49.3	603.3	29,737.5	537.1	13,965.7	537.1	13,965.7	537.1	13,965.7	553.7	27,290.6
- TSP	(kg)	56.3	349.0	19,655.5	310.7	8,078.5	310.7	8,078.5	310.7	8,078.5	320.3	18,038.2
- MOP	(kg)	66.7	1,271.7	84,817.9	1,132.1	29,435.8	1,132.1	29,435.8	1,132.1	29,435.8	1,167.0	77,838.7
- Compost	(ton)	20,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0
- Others	(ha)	22,000.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				354,210.9		271,480.0		271,480.0		271,480.0		343,167.5
3) Agro-chemicals												
- Herbicide	(ha)	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				8,831.2		8,831.2		8,831.2		8,831.2		8,831.2
4) Machinery												
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3,182.5
- Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0
- Transport produce per ton	(ton)	361.0	0.0	0.0	32.5	11,732.5	36.0	12,996.0	31.5	11,371.5	25.0	9,025.0
Sub-total				35,150.0		34,152.5		35,416.0		33,791.5		34,627.5
5) Human labor												
- Hired	(psn)	481.0	112.8	83,474.8	102.0	75,498.7	118.5	87,694.7	102.0	75,498.7	108.8	52,352.1
- Family	(psn)	481.0	171.2	0.0	158.0	0.0	183.5	0.0	158.0	0.0	167.7	80,644.4
Sub-total			284.0	83,474.8	260.0	75,498.7	302.0	87,694.7	260.0	75,498.7	276.5	132,996.5
6) Support												
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)				25,910.6		19,498.1		20,171.1		19,480.1		26,438.0
Total Cost												
- Including family labour				544,123.1		409,460.6		423,593.0		409,081.5		555,197.0
C. Net Return												
- Including family labour				-544,123.1		669,539.4		771,607.0		636,718.5		274,803.0

**Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under
With-project Conditions (Passion Fruit)**

	Unit	Unit Price (Rs)	Passion fruit: 1st Year		Passion fruit: 2nd Year		Passion fruit: 3rd Year		Passion fruit: 4th Year		Passion fruit: 5th Year		Passion fruit: 5-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income															
Yield	(kg)	51.3	0.0	0.0	20,000.0	1,026,000.0	22,000.0	1,128,600.0	17,500.0	897,750.0	10,500.0	538,650.0	14,000.0	718,200.0	
B. Production Cost															
1) Seedling	(kg)	16.2	1,125.0	18,222.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.0	3,644.6	
2) Fertilizers															
- Urea	(kg)	49.3	202.0	9,956.3	282.8	13,938.8	282.8	13,938.8	343.4	16,925.7	551.5	27,180.7	332.5	16,388.1	
- TSP	(kg)	56.3	360.0	20,275.0	504.0	28,385.0	504.0	28,385.0	612.0	34,467.5	982.8	55,350.7	592.6	33,372.6	
- MOP	(kg)	66.7	180.0	12,005.7	252.0	16,808.0	252.0	16,808.0	306.0	20,409.7	491.4	32,775.5	296.3	19,761.4	
- Compost	(ton)	20,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	
- Others	(ha)	22,000.0	1.0	22,000.0	1.0	22,000.0	1.0	22,000.0	1.0	22,000.0	1.0	22,000.0	1.0	22,000.0	
Sub-total				264,237.0		281,131.8		281,131.8		293,802.9		337,306.9		291,522.1	
3) Agro-chemicals															
- Herbicide	(ha)	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2	
4) Machinery															
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2,546.0	
- Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	
- Transport produce per ton	(ton)	361.0	0.0	0.0	20.0	7,220.0	22.0	7,942.0	17.5	6,317.5	10.5	3,790.5	14.0	5,054.0	
Sub-total				35,150.0		29,640.0		30,362.0		28,737.5		26,210.5		30,020.0	
5) Human labor															
- Hired	(psn)	481.0	139.0	66,859.0	94.0	45,214.0	98.0	47,138.0	98.0	47,138.0	98.0	47,138.0	105.4	50,697.4	
- Family	(psn)	481.0	217.0	104,377.0	146.0	70,226.0	152.0	73,112.0	152.0	73,112.0	152.0	73,112.0	163.8	78,787.8	
Sub-total				356.0	171,236.0	240.0	115,440.0	250.0	120,250.0	250.0	120,250.0	250.0	120,250.0	269.2	129,485.2
6) Support															
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				24,883.8		21,752.1		22,028.7		22,581.1		24,629.9		23,175.2	
Total Cost				522,560.8		456,795.1		462,603.7		474,202.6		517,228.6		486,678.2	
- Including family labour															
C. Net Return															
- Including family labour				-522,560.8		569,204.9		665,996.3		423,547.4		21,421.4		231,521.8	

**Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under
With-project Conditions (Mango)**

	Unit	Unit Price (Rs)	Mango: 1st Year		Mango: 2nd Year		Mango: 3rd Year		Mango: 4th Year		Mango: 5th Year		Mango: 6th Year		Mango: 7-20th Yr Ave.		Mango: 20-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(kg)	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,800.0	395,760.0	6,800.0	395,760.0	27,600.0	1,606,320.0	20,000.0	1,164,000.0	
B. Production Cost																			
1) Seedling	(kg)	108.2	105.0	11,363.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	568.2
2) Fertilizers																			
- Urea	(kg)	49.3	42.0	2,070.1	42.0	2,070.1	42.0	2,070.1	42.0	2,070.1	69.0	3,400.9	87.0	4,288.1	177.0	8,724.1	140.1	6,905.3	
- TSP	(kg)	56.3	51.0	2,872.3	51.0	2,872.3	51.0	2,872.3	51.0	2,872.3	84.0	4,730.8	106.0	5,969.9	215.0	12,108.7	170.2	9,585.6	
- MOP	(kg)	66.7	23.0	1,534.1	23.0	1,534.1	23.0	1,534.1	23.0	1,534.1	38.0	2,534.5	48.0	3,201.5	97.0	6,469.7	76.8	5,122.4	
- Compost	(ton)	20,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				206,476.5		206,476.5		206,476.5		206,476.5		210,666.3		213,459.5		227,302.5		221,613.3	
3) Agro-chemicals																			
- Herbicide	(ha)	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	
- Pesticide	(ha)	8,831.2	0.0	0.0	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,389.6	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				10,084.5		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,474.1	
4) Machinery																			
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	636.5
- Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	
- Transport produce per ton	(ton)	361.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	2,454.8	6.8	2,454.8	27.6	9,963.6	20.0	7,220.0		
Sub-total				35,150.0		22,420.0		22,420.0		22,420.0		24,874.8		24,874.8		32,383.6		30,276.5	
5) Human labor																			
- Hired	(psn)	481.0	47.0	22,607.0	37.0	17,797.0	38.0	18,278.0	71.0	34,151.0	82.0	39,442.0	83.0	39,923.0	83.0	39,923.0	76.0	36,556.0	
- Family	(psn)	481.0	73.0	35,113.0	57.0	27,417.0	59.0	28,379.0	111.0	53,391.0	127.0	61,087.0	131.0	63,011.0	131.0	63,011.0	119.6	57,527.6	
Sub-total			120.0	57,720.0	94.0	45,214.0	97.0	46,657.0	182.0	87,542.0	209.0	100,529.0	214.0	102,934.0	214.0	102,934.0	195.6	94,083.6	
6) Support																			
- Poles and wires	(ha)	66,690.0	1.0	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3,334.5	
7) Miscellaneous (5%)				19,374.2		14,651.3		14,723.5		16,767.7		17,749.3		18,009.2		19,076.8		18,417.5	
Total Cost																			
- Including family labour				406,858.7		307,677.5		309,192.6		352,121.9		372,735.1		378,193.2		400,612.6		386,767.8	
C. Net Return																			
- Including family labour				-406,858.7		-307,677.5		-309,192.6		-352,121.9		23,024.9		17,566.8		1,205,707.4		777,232.2	

Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under With-project Conditions (Orange)

	Unit	Unit Price (Rs)	Orange: 1st Year		Orange: 2nd Year		Orange: 3rd Year		Orange: 4th Year		Orange: 5th Year		Orange: 6-8th Yr Ave.		Orange: 9-15th Yr Ave.		Orange: 15-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(fruit)	76.8	0.0	0.0	0.0	0.0	0.0	0.0	4,000.0	307,200.0	8,000.0	614,400.0	16,800.0	1,290,240.0	16,800.0	1,290,240.0	12,000.0	921,600.0	
B. Production Cost																			
1) Seedlings	(kg)	108.2	562.0	60,821.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	4,054.8
2) Fertilizers																			
- Urea	(kg)	49.3	90.0	4,436.0	88.0	4,337.4	133.0	6,555.4	175.0	8,625.5	220.0	10,843.5	264.0	13,012.2	264.0	13,012.2	223.1	10,994.6	
- TSP	(kg)	56.3	112.0	6,307.8	110.0	6,195.1	164.0	9,236.4	218.0	12,277.6	274.0	15,431.5	327.0	18,416.4	327.0	18,416.4	276.5	15,574.2	
- MOP	(kg)	66.7	51.0	3,401.6	50.0	3,334.9	74.0	4,935.7	100.0	6,669.8	124.0	8,270.6	149.0	9,938.0	149.0	9,938.0	125.9	8,399.5	
- Compost	(ton)	20,000.0	5.6	112,400.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	119,493.3	
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				126,545.4		133,867.4		140,727.4		147,573.0		154,545.6		161,366.7		161,366.7		154,461.7	
3) Agro-chemicals																			
- Herbicide	(ha)	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7	
4) Machinery																			
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	848.7
- Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	
- Transport produce per ton	(ton)	361.0	0.0	0.0	0.0	0.0	0.0	4.0	1,444.0	8.0	2,888.0	16.8	6,064.8	16.8	6,064.8	12.0	4,332.0		
Sub-total				35,150.0		22,420.0		22,420.0		23,864.0		25,308.0		28,484.8		28,484.8		27,600.7	
5) Human labor																			
- Hired	(psn)	481.0	88.0	42,328.0	39.0	18,759.0	39.0	18,759.0	39.0	18,759.0	43.0	20,683.0	43.0	20,683.0	43.0	20,683.0	45.2	21,741.2	
- Family	(psn)	481.0	139.0	66,859.0	60.0	28,860.0	60.0	28,860.0	60.0	28,860.0	68.0	32,708.0	68.0	32,708.0	68.0	32,708.0	71.1	34,215.1	
Sub-total			227.0	109,187.0	99.0	47,619.0	99.0	47,619.0	99.0	47,619.0	111.0	53,391.0	111.0	53,391.0	111.0	53,391.0	116.3	55,956.3	
6) Support																			
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				17,531.0		11,141.1		11,484.1		11,898.6		12,608.0		13,107.9		13,107.9		13,049.5	
Total Cost				368,150.9		233,963.3		241,166.2		249,870.2		264,768.3		275,266.1		275,266.1		274,038.7	
- Including family labour				368,150.9		233,963.3		241,166.2		249,870.2		264,768.3		275,266.1		275,266.1		274,038.7	
C. Net Return																			
- Including family labour				-368,150.9		-233,963.3		-241,166.2		57,329.8		349,631.7		1,014,973.9		1,014,973.9		647,561.3	

Table A 6.6 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under With-project Conditions (Lime)

	Unit	Unit Price (Rs)	Lime: 1st Year		Lime: 2nd Year		Lime: 3rd Year		Lime: 4th Year		Lime: 5th Year		Lime: 6th Year		Lime: 7-15th Yr Ave.		Lime: 15-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(kg)	60.0	0.0	0.0	0.0	0.0	5,000.0	300,000.0	8,000.0	480,000.0	12,000.0	720,000.0	18,500.0	1,110,000.0	33,500.0	2,010,000.0	23,000.0	1,380,000.0	
B. Production Cost																			
1) Seedling	(kg)	162.2	700.0	113,572.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	7,571.5	
2) Fertilizers																			
- Urea	(kg)	49.3	147.0	7,245.4	182.3	8,984.3	230.8	11,375.3	279.3	13,766.3	321.9	15,867.5	310.0	15,279.5	310.0	15,279.5	284.1	14,002.2	
- TSP	(kg)	56.3	161.0	9,067.4	199.6	11,243.6	252.8	14,235.9	252.8	14,235.9	252.8	14,235.9	340.0	19,148.6	340.0	19,148.6	301.3	16,967.0	
- MOP	(kg)	66.7	43.0	2,868.0	53.3	3,556.4	67.5	4,502.8	67.5	4,502.8	67.5	4,502.8	90.0	6,002.8	90.0	6,002.8	79.9	5,330.8	
- Compost	(ton)	20,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	
- Others	(ha)	22,000.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				239,180.9		243,784.3		250,114.0		252,505.0		254,606.1		260,430.9		260,430.9		256,300.0	
3) Agro-chemicals																			
- Herbicide	(ha)	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7	
4) Machinery																			
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	848.7
- Irrigation by pump	(ha)	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	1.0	22,420.0	
- Transport produce per ton	(ton)	361.0	0.0	0.0	0.0	0.0	5.0	1,805.0	8.0	2,888.0	12.0	4,332.0	18.5	6,678.5	33.5	12,093.5	23.0	8,303.0	
Sub-total				35,150.0		22,420.0		24,225.0		25,308.0		26,752.0		29,098.5		34,513.5		31,571.7	
5) Human labor																			
- Hired	(psn)	481.0	90.0	43,290.0	34.0	16,354.0	46.0	22,126.0	54.0	25,974.0	62.0	29,822.0	70.0	33,670.0	70.0	33,670.0	65.7	31,617.7	
- Family	(psn)	481.0	142.0	68,302.0	53.0	25,493.0	73.0	35,113.0	85.0	40,885.0	97.0	46,657.0	109.0	52,429.0	109.0	52,429.0	102.7	49,382.7	
Sub-total			232.0	111,592.0	87.0	41,847.0	119.0	57,239.0	139.0	66,859.0	159.0	76,479.0	179.0	86,099.0	179.0	86,099.0	168.4	81,000.4	
6) Support																			
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6) Miscellaneous (5%)				25,920.6		16,348.3		17,524.7		18,179.4		18,837.6		19,727.2		19,998.0		19,768.0	
Total Cost																			
- Including family labour				544,332.0		343,315.3		368,018.4		381,767.0		395,590.5		414,271.3		419,957.1		415,127.2	
C. Net Return																			
- Including family labour				-544,332.0		-343,315.3		-68,018.4		98,233.0		324,409.5		695,728.7		1,590,042.9		964,872.8	

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (OFC)

	Unit	Black gram			Cowpea			Green gram			Soybean			Groundnut		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income																
Yield	(kg)	160.0	960.0	153,600.0	135.0	1,030.0	139,050.0	170.0	951.0	161,670.0	135.0	1,630.0	220,050.0	170.0	1,290.0	219,300.0
B. Production Cost																
1) Seeds	(kg)	263.0	24.7	6,496.1	154.0	25.2	3,880.8	263.0	24.0	6,312.0	154.0	54.4	8,377.6	263.0	154.0	40,502.0
2) Fertilizers																
- Urea	(kg)	49.3	0.0	0.0	49.3	0.0	0.0	49.3	0.0	0.0	49.3	0.0	0.0	49.3	0.0	0.0
- TSP	(kg)	56.3	0.0	0.0	56.3	0.0	0.0	56.3	0.0	0.0	56.3	0.0	0.0	56.3	0.0	0.0
- MOP	(kg)	66.7	0.0	0.0	66.7	0.0	0.0	66.7	0.0	0.0	66.7	0.0	0.0	66.7	0.0	0.0
- TDM	(kg)	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0
- Mixture	(kg)	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0
- Poultry manure	(ton)	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0
- Others	(ha)	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0
Sub-total				0.0			0.0			0.0			0.0			0.0
3) Agro-chemicals																
- Herbicide	(ha)	3,818.0	1.0	3,818.0	3,818.0	0.0	0.0	3,818.0	1.0	3,818.0	3,818.0	0.0	0.0	3,818.0	0.0	0.0
- Pesticide	(ha)	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7	3,477.7	1.0	3,477.7
Sub-total				7,295.7			3,477.7			7,295.7			3,477.7			3,477.7
4) Machinery																
- Land preparation	(ha)	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0
- Irrigation by pump	(ha)	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0	22,420.0	0.0	0.0
- Threshing and winnowing	(ton)	2,327.5	1.0	2,234.4	2,327.5	1.0	2,397.3	2,327.5	1.0	2,213.5	2,327.5	1.6	3,793.8	2,327.5	1.3	3,002.5
- Transportation of production	(ton)	361.0	1.0	346.6	361.0	1.0	371.8	361.0	1.0	343.3	361.0	1.6	588.4	361.0	1.3	465.7
Sub-total				15,311.0			15,499.2			15,286.8			17,112.3			16,198.2
5) Human labor																
- Hired	(psn)	481.0	27.0	12,987.0	481.0	12.0	5,772.0	481.0	40.0	19,240.0	481.0	32.0	15,392.0	481.0	32.0	15,392.0
- Family	(psn)	481.0	25.0	12,025.0	481.0	84.0	40,404.0	481.0	32.0	15,392.0	481.0	56.0	26,936.0	481.0	94.0	45,214.0
Sub-total			52.0	25,012.0		96.0	46,176.0		72.0	34,632.0		88.0	42,328.0		126.0	60,606.0
6) Support	(Rs)			0.0			0.0			0.0			0.0			0.0
7) Miscellaneous (5%)				2,705.7			3,451.7			3,176.3			3,564.8			6,039.2
Total Cost																
- Including family labour	(Rs)			12,025.0			40,404.0			15,392.0			74,860.3			126,823.1
C. Net Return																
- Including family labour	(Rs)			141,575.0			98,646.0			146,278.0			145,189.7			92,476.9

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (OFC and Paddy)

	Unit	Chilli (Green)			Red onion			Big onion			Paddy Irrigated		
		Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)	Unit Price (Rs)	Amount	Value (Rs)
A. Gross Income													
Yield	(kg)	100.0	3,700.0	370,000.0	87.0	10,970.0	954,390.0	67.0	10,300.0	690,100.0	25.9	5,500.0	142,419.7
B. Production Cost													
1) Seeds	(kg)	1,976.0	1.8	3,458.0	112.0	1,406.2	157,494.4	3,738.9	7.7	28,789.5	64.0	139.3	8,915.2
2) Fertilizers													
- Urea	(kg)	49.3	255.0	12,568.6	49.3	98.8	4,868.2	49.3	143.0	7,048.3	49.3	274.0	13,505.1
- TSP	(kg)	56.3	145.0	8,166.3	56.3	207.4	11,680.6	56.3	133.0	7,490.5	56.3	101.0	5,688.3
- MOP	(kg)	66.7	130.0	8,670.8	66.7	0.0	0.0	66.7	0.0	0.0	66.7	89.0	5,936.1
- TDM	(kg)	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0	57.4	0.0	0.0
- Mixture	(kg)	57.4	150.0	8,615.3	57.4	229.6	13,187.2	57.4	377.0	21,653.2	57.4	0.0	0.0
- Poultry manure	(ton)	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0	20,000.0	0.0	0.0
- Others	(ha)	22,000.0	1.0	22,000.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0
Sub-total				60,021.0			29,736.1			36,191.9			25,129.5
3) Agro-chemicals													
- Herbicide	(ha)	3,818.0	0.0	0.0	4,905.3	0.0	0.0	4,905.3	0.0	0.0	6,764.5	1.0	6,764.5
- Pesticide	(ha)	3,477.7	1.0	3,477.7	28,676.5	1.0	28,676.5	28,676.5	1.0	28,676.5	3,494.3	1.0	3,494.3
Sub-total				3,477.7			28,676.5			28,676.5			10,258.8
4) Machinery													
- Land preparation	(ha)	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0	12,730.0	1.0	12,730.0
- Irrigation by pump	(ha)	22,420.0	0.0	0.0	22,420.0	1.0	22,420.0	22,420.0	1.0	22,420.0	22,420.0	0.0	0.0
- Threshing and winnowing	(ton)	2,327.5	0.0	0.0	2,327.5	0.0	0.0	2,327.5	0.0	0.0	2,327.5	5.5	12,801.3
- Transportation of production	(ton)	361.0	11.0	3,971.0	361.0	11.0	3,960.2	361.0	10.3	3,718.3	361.0	5.5	1,985.5
Sub-total				16,701.0			39,110.2			38,868.3			27,516.8
5) Human labor													
- Hired	(psn)	481.0	146.0	70,226.0	481.0	166.0	79,846.0	481.0	151.0	72,631.0	481.0	32.0	15,392.0
- Family	(psn)	481.0	228.0	109,668.0	481.0	54.0	25,974.0	481.0	64.0	30,784.0	481.0	35.0	16,835.0
Sub-total				179,894.0		220.0	105,820.0		215.0	103,415.0		67.0	32,227.0
6) Support	(Rs)			0.0			0.0			0.0			0.0
7) Miscellaneous (5%)				13,177.6			18,041.9			11,797.1			5,202.4
Total Cost													
- Including family labour	(Rs)			276,729.3			378,879.0			247,738.2			109,249.6
C. Net Return													
- Including family labour	(Rs)			93,270.7			575,511.0			442,361.8			33,170.1

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Fruit Summary)

	Unit	Banana: 15-Year Ave.			Papaw: 4-Yr Ave.			Passion fruit: 5-Yr Ave.			Mango: 20-Yr Ave.			Orange: 15-Yr Ave.			Lime: 15-year Average		
		Unit	Amount	Value	Unit	Amount	Value	Unit	Amount	Value	Unit	Amount	Value	Unit	Amount	Value	Unit	Amount	Value
		(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)	(Rs)
A. Gross Income																			
Yield	(kg)	20.0	7,280.0	145,600.0	33.2	5,975.0	198,370.0	51.3	6,152.0	315,597.6	58.2	7,130.0	414,966.0	76.8	7,058.0	542,054.4	60.0	15,000.0	900,000.0
B. Production Cost																			
1) Suckers	(kg)	21.6	73.3	1,586.0	32.5	281.3	9,136.4	16.2	225.0	3,644.6	108.2	5.3	568.2	108.2	37.5	4,054.8	162.2	46.7	7,571.5
2) Fertilizers																			
- Urea	(kg)	49.3	17.6	866.0	49.3	106.8	5,261.6	49.3	188.4	9,286.0	49.3	73.3	3,612.9	49.3	117.8	5,806.2	49.3	221.2	10,902.6
- TSP	(kg)	56.3	11.7	659.7	56.3	61.8	3,477.7	56.3	336.2	18,934.6	56.3	89.0	5,012.4	56.3	147.3	8,294.0	56.3	210.1	11,834.6
- MOP	(kg)	66.7	36.6	2,440.1	66.7	225.0	15,007.1	66.7	168.2	11,218.7	66.7	40.4	2,694.6	66.7	68.5	4,571.1	66.7	55.9	3,730.7
- TDM	(kg)																		
- Mixture	(kg)																		
- Compost	(ton)	20,000.0	0.7	13,333.3	20,000.0	2.5	50,000.0	20,000.0	2.0	40,000.0	20,000.0	10.0	200,000.0	20,000.0	6.0	119,493.3	20,000.0	11.0	220,000.0
- Others	(ha)	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0	22,000.0	0.0	0.0
Sub-total				17,299.1			73,746.4			79,439.2			211,319.9			138,164.6			246,467.9
3) Agro-chemicals					0.0	0.0					0.0	0.0							
- Herbicide	(ha)	10,084.5	0.0	0.0	10,084.5	0.0	0.0	10,084.5	0.0	0.0	10,084.5	0.1	504.2	10,084.5	0.0	0.0	10,084.5	1.0	10,084.5
- Pesticide	(ha)	8,831.2	0.1	588.7	8,831.2	0.3	2,207.8	8,831.2	1.0	8,831.2	8,831.2	1.0	8,389.6	8,831.2	1.0	8,831.2	8,831.2	1.0	8,831.2
- Hormone	(ha)	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0	3,610.0	0.0	0.0
Sub-total				588.7			2,207.8			8,831.2			8,893.9			8,831.2			18,915.7
4) Machinery																			
Land preparation	(ha)	12,730.0	0.1	848.7	12,730.0	0.3	3,182.5	12,730.0	0.2	2,546.0	12,730.0	0.1	636.5	12,730.0	0.1	848.7	12,730.0	0.1	848.7
Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	22,420.0	0.5	11,210.0	22,420.0	0.5	11,210.0	22,420.0	0.5	11,210.0	22,420.0	0.5	11,210.0	22,420.0	0.5	11,210.0
Transport produce per ton	(ha)	361.0	7.3	2,628.1	361.0	6.0	2,157.0	361.0	6.2	2,220.9	361.0	7.1	2,573.9	361.0	7.1	2,547.9	361.0	15.0	5,415.0
Sub-total				14,686.7			16,549.5			15,976.9			14,420.4			14,606.6			17,473.7
5) Human labor																			
- Hired	(psn)	481.0	38.7	18,637.1	481.0	44.5	21,404.5	481.0	86.4	41,558.4	481.0	43.9	21,115.9	481.0	41.9	20,137.9	481.0	43.9	21,131.9
- Family	(psn)	481.0	58.1	27,955.7	481.0	68.3	32,828.3	481.0	135.2	65,031.2	481.0	68.8	33,092.8	481.0	64.0	30,784.0	481.0	69.2	33,285.2
Sub-total				46,592.9	0.0	112.8	54,232.8	0.0	221.6	106,589.6	0.0	112.7	54,208.7	0.0	105.9	50,921.9	0.0	113.1	54,417.1
6) Support																			
- Poles and wires	(ha)	66,690.0	0.0	0.0	66,690.0	0.0	0.0	70,200.0	0.2	14,040.0	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)				4,037.7	0.0	0.0	7,793.6	0.0	0.0	11,426.1	0.0	0.0	14,470.6	0.0	0.0	10,829.0	0.0	0.0	17,242.3
Total Cost																			
- Including family labour		0.0	38%	84,791.1	0.0	73%	163,666.5	0.0	107%	239,947.5	0.0	136%	303,881.6	0.0	101%	227,408.0	0.0	161%	362,088.2
C. Net Return																			
- Including family labour		0.0	36%	60,808.9	0.0	21%	34,703.5	0.0	45%	75,650.1	0.0	66%	111,084.4	0.0	187%	314,646.4	0.0	319%	537,911.8

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Banana)

	Unit	Unit Price (Rs)	Banana: 1st Year		Banana: 2nd Year		Banana: 3rd-7th Year Ave		Banana: 8-12th Yr Ave.		Banana: 13-15th Yr Ave.		Banana: 15-Year Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income														
Yield	(kg)	20.0	0.0	0.0	14,300.0	286,000.0	10,000.0	200,000.0	6,700.0	134,000.0	3,800.0	76,000.0	7,280.0	145,600.0
B. Production Cost														
1) Suckers	(kg)	21.6	1,100.0	23,789.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.3	1,586.0
2) Fertilizers														
-Urea	(kg)	49.3	263.5	12,989.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	866.0
- TSP	(kg)	56.3	175.7	9,895.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	659.7
- MOP	(kg)	66.7	548.8	36,601.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.6	2,440.1
- Compost	(ton)	20,000.0	10.0	200,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	13,333.3
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				259,486.2		0.0		0.0		0.0		0.0		17,299.1
3) Agro-chemicals														
- Herbicide	(ha)	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Pesticide	(ha)	8,831.2	0.0	0.0	1.0	8,831.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	588.7
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				0.0		8,831.2		0.0		0.0		0.0		588.7
4) Machinery														
Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	848.7
Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0
Transport produce per ton	(ha)	361.0	0.0	0.0	14.3	5,162.3	10.0	3,610.0	6.7	2,418.7	3.8	1,371.8	7.3	2,628.1
Sub-total				23,940.0		16,372.3		14,820.0		13,628.7		12,581.8		14,686.7
5) Human labor														
- Hired	(psn)	481.0	94.0	45,214.0	34.8	16,738.8	34.8	16,738.8	34.8	16,738.8	34.8	16,738.8	38.7	18,637.1
- Family	(psn)	481.0	141.0	67,821.0	52.2	25,108.2	52.2	25,108.2	52.2	25,108.2	52.2	25,108.2	58.1	27,955.7
Sub-total			235.0	113,035.0	87.0	41,847.0	87.0	41,847.0	87.0	41,847.0	87.0	41,847.0	96.9	46,592.9
6) Support														
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)				21,012.5		3,352.5		2,833.4		2,773.8		2,721.4		4,037.7
Total Cost														
- Including family labour				441,263.4		70,403.0		59,500.4		58,249.5		57,150.2		84,791.1
C. Net Return														
- Including family labour				-441,263.4		215,597.0		140,499.7		75,750.5		18,849.8		60,808.9

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Papaw)

	Unit	Unit Price (Rs)	Papaw: 1st Year		Papaw: 2nd Year		Papaw: 3rd Year		Papaw: 4th Year		Papaw: 4-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income													
Yield	(kg)	33.2	0.0	0.0	7,700.0	255,640.0	8,600.0	285,520.0	7,600.0	252,320.0	5,975.0	198,370.0	
B. Production Cost													
1) Seedlings	(kg)	32.5	1,125.0	36,545.6	0.0	0.0	0.0	0.0	0.0	0.0	281.3	9,136.4	
2) Fertilizers													
- Urea	(kg)	49.3	427.0	21,046.2	0.0	0.0	0.0	0.0	0.0	0.0	106.8	5,261.6	
- TSP	(kg)	56.3	247.0	13,910.9	0.0	0.0	0.0	0.0	0.0	0.0	61.8	3,477.7	
- MOP	(kg)	66.7	900.0	60,028.5	0.0	0.0	0.0	0.0	0.0	0.0	225.0	15,007.1	
- Compost	(ton)	20,000.0	10.0	200,000.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	50,000.0	
- Others	(ha)	22,000.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				294,985.6		0.0		0.0		0.0		73,746.4	
3) Agro-chemicals													
- Herbicide	(ha)	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2,207.8	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				8,831.2		0.0		0.0		0.0		2,207.8	
4) Machinery													
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3,182.5	
- Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	
- Transport produce per ton	(ha)	361.0	0.0	0.0	7.7	2,779.7	8.6	3,104.6	7.6	2,743.6	6.0	2,157.0	
Sub-total				23,940.0		13,989.7		14,314.6		13,953.6		16,549.5	
5) Human labor													
- Hired	(psn)	481.0	85.0	40,885.0	31.0	14,911.0	31.0	14,911.0	31.0	14,911.0	44.5	21,404.5	
- Family	(psn)	481.0	129.0	62,049.0	48.0	23,088.0	48.0	23,088.0	48.0	23,088.0	68.3	32,828.3	
Sub-total				214.0	102,934.0	79.0	37,999.0	79.0	37,999.0	79.0	37,999.0	112.8	54,232.8
6) Support													
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				23,361.8		2,599.4		2,615.7		2,597.6		7,793.6	
Total Cost													
- Including family labour				490,598.2		54,588.1		54,929.3		54,550.2		163,666.5	
C. Net Return													
- Including family labour				-490,598.2		201,051.9		230,590.7		197,769.8		34,703.5	

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Passion Fruit)

	Unit	Unit Price (Rs)	Passion fruit: 1st Year		Passion fruit: 2nd Year		Passion fruit: 3rd Year		Passion fruit: 4th Year		Passion fruit: 5th Year		Passion fruit: 5-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income															
Yield	(kg)	51.3	0.0	0.0	9,050.0	464,265.0	9,650.0	495,045.0	7,240.0	371,412.0	4,820.0	247,266.0	6,152.0	315,597.6	
B. Production Cost															
1) Seedling	(kg)	16.2	1,125.0	18,222.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.0	3,644.6	
2) Fertilizers															
- Urea	(kg)	49.3	133.0	6,555.4	133.0	6,555.4	201.0	9,907.0	271.0	13,357.2	204.0	10,054.9	188.4	9,286.0	
- TSP	(kg)	56.3	238.0	13,404.0	238.0	13,404.0	358.0	20,162.3	483.0	27,202.3	364.0	20,500.3	336.2	18,934.6	
- MOP	(kg)	66.7	119.0	7,937.1	119.0	7,937.1	179.0	11,939.0	242.0	16,141.0	182.0	12,139.1	168.2	11,218.7	
- Compost	(ton)	20,000.0	10.0	200,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	40,000.0	
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				227,896.5		27,896.5		42,008.3		56,700.5		42,694.2		79,439.2	
3) Agro-chemicals															
- Herbicide	(ha)	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2	
4) Machinery															
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2,546.0	
- Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	
- Transport produce per ton	(ha)	361.0	0.0	0.0	9.1	3,267.1	9.7	3,483.7	7.2	2,613.6	4.8	1,740.0	6.2	2,220.9	
Sub-total				23,940.0		14,477.1		14,693.7		13,823.6		12,950.0		15,976.9	
5) Human labor															
- Hired	(psn)	481.0	118.0	56,758.0	80.0	38,480.0	87.0	41,847.0	80.0	38,480.0	67.0	32,227.0	86.4	41,558.4	
- Family	(psn)	481.0	185.0	88,985.0	125.0	60,125.0	136.0	65,416.0	125.0	60,125.0	105.0	50,505.0	135.2	65,031.2	
Sub-total				303.0	145,743.0	205.0	98,605.0	223.0	107,263.0	205.0	98,605.0	172.0	82,732.0	221.6	106,589.6
6) Support															
- Poles and wires	(ha)	66,690.0	1.0	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	14,040.0	
7) Miscellaneous (5%)				24,566.2		7,490.5		8,639.8		8,898.0		7,360.4		11,426.1	
Total Cost															
- Including family labour				604,874.6		217,425.2		246,852.0		246,983.3		205,072.8		304,978.7	
- Excluding family labour				515,889.6		157,300.2		181,436.0		186,858.3		154,567.8		239,947.5	
C. Net Return															
- Including family labour				-604,874.6		246,839.8		248,193.0		124,428.7		42,193.2		10,618.9	
- Excluding family labour				-515,889.6		306,964.8		313,609.0		184,553.7		92,698.2		75,650.1	

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Mango)

	Unit	Unit Price (Rs)	Mango: 1st Year		Mango: 2nd Year		Mango: 3rd Year		Mango: 4th Year		Mango: 5th Year		Mango: 6th Year		Mango: 7-20th Yr Ave.		Mango: 20-Yr Ave.	
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)
A. Gross Income																		
Yield	(kg)	58.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,400.0	81,480.0	4,000.0	232,800.0	9,800.0	570,360.0	7,130.0	414,966.0
B. Production Cost																		
1) Seedling	(kg)	108.2	105.0	11,363.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	568.2
2) Fertilizers																		
- Urea	(kg)	49.3	18.0	887.2	27.0	1,330.8	36.0	1,774.4	36.0	1,774.4	45.0	2,218.0	58.0	2,858.7	89.0	4,386.7	73.3	3,612.9
- TSP	(kg)	56.3	22.0	1,239.0	33.0	1,858.5	44.0	2,478.1	44.0	2,478.1	55.0	3,097.6	70.0	3,942.4	108.0	6,082.5	89.0	5,012.4
- MOP	(kg)	66.7	10.0	667.0	15.0	1,000.5	20.0	1,334.0	20.0	1,334.0	25.0	1,667.5	32.0	2,134.3	49.0	3,268.2	40.4	2,694.6
- Compost	(ton)	20,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0	10.0	200,000.0
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				202,793.2		204,189.8		205,586.4		205,586.4		206,983.0		208,935.4		213,737.4		211,319.9
3) Agro-chemicals																		
- Herbicide	(ha)	10,084.5	1.0	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	504.2
- Pesticide	(ha)	8,831.2	0.0	0.0	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,389.6
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total				10,084.5		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,893.9
4) Machinery																		
Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	636.5
Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0
Transport produce per ton	(ha)	361.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	505.4	4.0	1,444.0	9.8	3,537.8	7.1	2,573.9
Sub-total				23,940.0		11,210.0		11,210.0		11,210.0		11,715.4		12,654.0		14,747.8		14,420.4
5) Human labor																		
- Hired	(psn)	481.0	47.0	22,607.0	37.0	17,797.0	38.0	18,278.0	46.0	22,126.0	51.0	24,531.0	43.0	20,683.0	44.0	21,164.0	43.9	21,115.9
- Family	(psn)	481.0	73.0	35,113.0	57.0	27,417.0	59.0	28,379.0	73.0	35,113.0	80.0	38,480.0	68.0	32,708.0	69.0	33,189.0	68.8	33,092.8
Sub-total			120.0	57,720.0	94.0	45,214.0	97.0	46,657.0	119.0	57,239.0	131.0	63,011.0	111.0	53,391.0	113.0	54,353.0	112.7	54,208.7
6) Support																		
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Miscellaneous (5%)																		
				15,295.1		13,472.3		13,614.2		14,143.3		14,527.0		14,190.6		14,583.5		14,470.6
Total Cost																		
- Including family labour				321,196.3		282,917.3		285,898.8		297,009.9		305,067.6		298,002.2		306,252.9		303,881.6
- Excluding family labour				286,083.3		255,500.3		257,519.8		261,896.9		266,587.6		265,294.2		273,063.9		270,788.8
C. Net Return																		
- Including family labour				-321,196.3		-282,917.3		-285,898.8		-297,009.9		-223,587.6		-65,202.2		264,107.1		111,084.4
- Excluding family labour				-286,083.3		-255,500.3		-257,519.8		-261,896.9		-185,107.6		-32,494.2		297,296.1		144,177.2

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Orange)

	Unit	Unit Price (Rs)	Orange: 1st Year		Orange: 2nd Year		Orange: 3rd Year		Orange: 4th Year		Orange: 5th Year		Orange: 6-8th Yr Ave.		Orange: 9-15th Yr Ave.		Orange: 15-Yr Ave.		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(fruit)	76.8	0.0	0.0	0.0	0.0	0.0	0.0	1,300.0	99,840.0	3,070.0	235,776.0	10,150.0	779,520.0	10,150.0	779,520.0	7,058.0	542,054.4	
B. Production Cost																			
1) Seedlings	(kg)	108.2	562.0	60,821.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5	4,054.8
2) Fertilizers																			
- Urea	(kg)	49.3	48.0	2,365.9	66.0	3,253.0	59.0	2,908.0	96.0	4,731.7	128.0	6,308.9	137.0	6,752.5	137.0	6,752.5	117.8	5,806.2	
- TSP	(kg)	56.3	75.0	4,224.0	82.0	4,618.2	73.0	4,111.3	120.0	6,758.3	159.0	8,954.8	170.0	9,574.3	170.0	9,574.3	147.3	8,294.0	
- MOP	(kg)	66.7	51.0	3,401.6	37.0	2,467.8	33.0	2,201.0	55.0	3,668.4	72.0	4,802.3	78.0	5,202.5	78.0	5,202.5	68.5	4,571.1	
- Compost	(ton)	20,000.0	5.6	112,400.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	120,000.0	6.0	119,493.3	
- Others	(ha)	22,000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				122,391.4		130,339.1		129,220.4		135,158.4		140,066.0		141,529.3		141,529.3		138,164.6	
3) Agro-chemicals																			
- Herbicide	(ha)	10,084.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2		8,831.2	
4) Machinery																			
Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	848.7
Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	
Transport produce per ton	(ha)	361.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	469.3	3.1	1,108.3	10.2	3,664.2	10.2	3,664.2	7.1	2,547.9	
Sub-total				23,940.0		11,210.0		11,210.0		11,679.3		12,318.3		14,874.2		14,874.2		14,606.6	
5) Human labor																			
- Hired	(psn)	481.0	59.0	28,379.0	34.0	16,354.0	34.0	16,354.0	38.0	18,278.0	38.0	18,278.0	39.0	18,759.0	44.0	21,164.0	41.9	20,137.9	
- Family	(psn)	481.0	91.0	43,771.0	52.0	25,012.0	52.0	25,012.0	58.0	27,898.0	58.0	27,898.0	60.0	28,860.0	67.0	32,227.0	64.0	30,784.0	
Sub-total			150.0	72,150.0	86.0	41,366.0	86.0	41,366.0	96.0	46,176.0	96.0	46,176.0	99.0	47,619.0	111.0	53,391.0	105.9	50,921.9	
6) Support																			
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7) Miscellaneous (5%)				14,406.7		9,587.3		9,531.4		10,092.2		10,369.6		10,642.7		10,931.3		10,829.0	
Total Cost				302,541.2		201,333.6		200,159.0		211,937.2		217,761.0		223,496.3		229,556.9		227,408.0	
- Including family labour																			
C. Net Return																			
- Including family labour				-302,541.2		-201,333.6		-200,159.0		-112,097.2		18,015.0		556,023.7		549,963.1		314,646.4	

Table A 6.7 Economic Crop Budget of OFC, Paddy and Vegetables per Hectare under Without-project Conditions (Lime)

	Unit	Unit Price (Rs)	Lime: 1st Year		Lime: 2nd Year		Lime: 3rd Year		Lime: 4th Year		Lime: 5th Year		Lime: 6th Year		Lime: 7-15th Year Average		Lime: 15-year Average		
			Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	Amount	Value (Rs)	
A. Gross Income																			
Yield	(kg)	60.0	0.0	0.0	0.0	0.0	3,400.0	204,000.0	5,100.0	306,000.0	7,800.0	468,000.0	12,500.0	750,000.0	21,800.0	1,308,000.0	15,000.0	900,000.0	
B. Production Cost																			
1) Seedling	(kg)	162.2	700.0	113,572.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.7	7,571.5
2) Fertilizers																			
- Urea	(kg)	49.3	52.0	2,563.0	103.0	5,076.7	156.0	7,689.0	230.0	11,336.4	309.0	15,230.2	182.0	8,970.5	254.0	12,519.3	221.2	10,902.6	
- TSP	(kg)	56.3	57.0	3,210.2	114.0	6,420.4	170.0	9,574.3	208.0	11,714.4	243.0	13,685.6	200.0	11,263.9	240.0	13,516.7	210.1	11,834.6	
- MOP	(kg)	66.7	15.0	1,000.5	30.0	2,000.9	46.0	3,068.1	54.0	3,601.7	65.0	4,335.4	53.0	3,535.0	64.0	4,268.7	55.9	3,730.7	
- Compost	(ton)	20,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	11.0	220,000.0	
- Others	(ha)	22,000.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				226,773.7		233,498.1		240,331.4		246,652.5		253,251.2		243,769.4		250,304.7		246,467.9	
3) Agro-chemicals																			
- Herbicide	(ha)	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	1.0	10,084.5	
- Pesticide	(ha)	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	1.0	8,831.2	
- Hormone	(ha)	3,610.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total				18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7		18,915.7	
4) Machinery																			
- Land preparation	(ha)	12,730.0	1.0	12,730.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	848.7
- Irrigation by pump	(ha)	22,420.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	0.5	11,210.0	
- Transport produce per ton	(ha)	361.0	0.0	0.0	0.0	0.0	3.4	1,227.4	5.1	1,841.1	7.8	2,815.8	12.5	4,512.5	21.8	7,869.8	15.0	5,415.0	
Sub-total				23,940.0		11,210.0		12,437.4		13,051.1		14,025.8		15,722.5		19,079.8		17,473.7	
5) Human labor																			
- Hired	(psn)	481.0	60.0	28,860.0	39.0	18,759.0	48.0	23,088.0	43.0	20,683.0	39.0	18,759.0	43.0	20,683.0	43.0	20,683.0	43.9	21,131.9	
- Family	(psn)	481.0	94.0	45,214.0	60.0	28,860.0	76.0	36,556.0	68.0	32,708.0	60.0	28,860.0	68.0	32,708.0	68.0	32,708.0	69.2	33,285.2	
Sub-total			154.0	74,074.0	99.0	47,619.0	124.0	59,644.0	111.0	53,391.0	99.0	47,619.0	111.0	53,391.0	111.0	53,391.0	113.1	54,417.1	
6) Support																			
- Poles and wires	(ha)	66,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6) Miscellaneous (5%)				22,863.8		15,562.1		16,566.4		16,600.5		16,690.6		16,589.9		17,084.6		17,242.3	
Total Cost																			
- Including family labour				480,140.1		326,804.9		347,895.0		348,610.8		350,502.3		348,388.5		358,775.7		362,088.2	
C. Net Return																			
- Including family labour				-480,140.1		-326,804.9		-143,895.0		-42,610.8		117,497.7		401,611.5		949,224.3		537,911.8	

Table A 6.8 Basic Production Data of Livestock Sector

	Unit	Present Condition			Future Condition		
		Average Number	Minimum	Maximum	Average Number	Minimum	Maximum
Number of Cows	Head/Farm	6.86	2.00	17.00	6.86	8.00	20.00
Number of Milking Cow	Head/Farm	3.38	0.50	3.97	3.53	3.00	8.00
Daily Milk Production per Milking Cow	Liters/Day	2.43	2.50	22.00	6.10	10.00	25.00
Lactation Length of Milking Cow per Year	Days/Year	228	238	277	255	260	300

Source: JICA Survey Team

Table A 6.9 Farm Budget of Livestock Sector by each Production Style

		Present Condition			Future Condition		
		(Rs/Litre)	(Litre)	(Rs)	(Rs/Litre)	(Litre)	(Rs)
A. Income							
Daily Income from Milk per Productive Cow	Rs/Day/Head	50.0	2.43	122	50.0	6.10	305.0
Annual Income from Milk per Head	Rs/Year/Head	50.0	554	27,700	50.0	1,552	77,623
Annual Income from Milk per Farm	Rs/Year/Farm	50.0	1,873	93,626	50.0	5,488	274,392
		(Rs/Head)	(Head)	(Rs/Farm)	(Rs/Head)	(Head)	(Rs/Farm)
Stock Value of Cows	Rs/Farm	35,000	6.86	240,100	42,000	6.86	288,120
Average Income from Culling	Rs/Year/Farm		10.0%	24,010		15.0%	43,218
B. Production cost							
1. Feed Cost per Milking Cow							
		(Rs/Year/Kg)	(Kg)		(Rs/Year/Kg)	(Kg)	
1.1 Concentrates	Rs/Year/Head	35.0	300.0	10,500	35.0	360.0	12,600.0
1.2 Fodder	Rs/Year/Head	3.0	0.0	0	3.0	1,800.0	5,400.0
1.3 Fodder Pellets	Rs/Year/Head	10.0	0.0	0	10.0	360.0	3,600.0
1.4 Straw baled	Rs/Year/Head	5.0	0.0	0	5.0	1,800.0	9,000.0
Total Feed Cost for Lifestock Unit	Rs/Year/Head			10,500.0			30,600.0
Total Feed Cost per Head	Rs/Year/Head	10,500.0	0.75	7,875.0	30,600.0	0.75	22,950.0
		(Rs/Year/Head)	(Head)		(Rs/Year/Head)	(Head)	
Feed Cost per Farm	Rs/Year/Farm	7,875.0	3.38	26,617.5	22,950.0	3.53	81,127.3
2. Labour							
		(Rs/Day)	(Day)		(Rs/Day)		
2.1 Family	Rs/Year/Farm	481	45.6	21,945.6	481	82.0	39,442.0
2.2 Hired	Rs/Year/Farm	481	45.6	21,945.6	481	82.0	39,442.0
		(Rs/Year/Head)	(Head)		(Rs/Year/Head)	(Head)	
3. Veterinary & drug cost	Rs/Year/Farm	89.0	6.86	610.5	267.0	6.86	1,831.6
4. Breeding cost							
4.1 AI	Rs/Year/Farm	267.0	3.38	902.5	667.5	3.53	2,359.6
4.2 Synchronization+AI	Rs/Year/Farm	0.0	3.38	0.0	0.0	3.53	0.0
4.3 Bull	Rs/Year/Farm	0.0	3.38	0.0	0.0	3.53	0.0
5. water cost	Rs/Year/Farm	89.0	6.86	610.5	222.5	6.86	1,526.4
6. Electrical cost	Rs/Year/Farm	22.3	6.86	152.6	55.6	6.86	381.6
7. Salt	Rs/Year/Farm	133.5	6.86	915.8	333.8	6.86	2,289.5
8. Bedding	Rs/Year/Farm	222.5	6.86	1,526.4	556.3	6.86	3,815.9
9. Cleaning	Rs/Year/Farm	222.5	6.86	1,526.4	556.3	6.86	3,815.9
10. Machinery use	Rs/Year/Farm	950.0	6.86	6,517.0	2,375.0	6.86	16,292.5
Cost	Rs/Year/Farm			83,270			192,324
Cost excluding Family Labour	Rs/Year/Farm			61,325			152,882
Income from milk	Rs/Year/Farm		93,626	80%		274,392	86%
Income from culling	Rs/Year/Farm		24,010	20%		43,218	14%
Total income	Rs/Year/Farm		117,636			317,610	
Cost for Milk	Rs/Year/Farm		66,275	80%		166,154	86%
Cost for Culling	Rs/Year/Farm		16,996	20%		26,170	14%
Net Return	Rs/Year/Farm		34,366			125,286	
Net Return for Milk	Rs/Year/Farm		27,351			108,238	
Production Amount (l/year)	l/Year/Farm		1,873			5,488	

Difference of With Project and Without Project

Profit for Milk	Rs/Year/Farm	80,887
Production Amount	l/Year/Farm	3,615
Net Profit per Litre	Rs/Year	22.4

Source: JICA Survey Team

Table A 6.10 Calculation of EIRR and B/C

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Economic Benefit	0%	0%	0%	0%	7%	14%	21%	28%	35%	42%	49%	56%	63%	70%
Incremental Production of OFC and Fruits	0	0	0	0	609	1,218	1,827	2,435	3,044	3,653	4,262	4,871	5,480	6,089
Incremental Production of Milk	0	0	0	0	0	185	370	554	739	924	1,109	1,293	1,478	1,663
Total Benefit	0	0	0	0	609	1,403	2,197	2,989	3,783	4,577	5,371	6,164	6,958	7,752
Economic Cost														
Initial Cost	393	1,237	3,571	3,448	2,509	1,130	377	0	0	0	0	0	0	0
O&M Cost (2% of Civil Construction Cost)	0	4	16	52	86	111	122	127	127	127	127	127	127	127
Total Cost	393	1,241	3,587	3,500	2,595	1,241	499	127	127	127	127	127	127	127
Balance	-393	-1,241	-3,587	-3,500	-1,986	162	1,698	2,862	3,656	4,450	5,244	6,037	6,831	7,625
Sensitivity Analysis														
10% Cost Increase	432	1,365	3,946	3,850	2,855	1,365	549	140	140	140	140	140	140	140
15% Benefit Decrease	0	0	0	0	518	1,193	1,867	2,541	3,216	3,890	4,565	5,239	5,914	6,589
Balance of Sensitivity Analysis														
Case 1	-432	-1,365	-3,946	-3,850	-2,246	38	1,648	2,849	3,643	4,437	5,231	6,024	6,818	7,612
Case 2	-393	-1,241	-3,587	-3,500	-2,077	-48	1,368	2,414	3,089	3,763	4,438	5,112	5,787	6,462
Case 3	-432	-1,365	-3,946	-3,850	-2,337	-173	1,319	2,401	3,076	3,751	4,426	5,100	5,775	6,450

2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	Total
77%	84%	91%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
6,697	7,306	7,915	8,524	8,698	8,698	8,698	8,698	8,698	8,698	8,698	8,698	8,698	8,698	8,698	8,698	168,306
1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	1,848	37,883
8,545	9,154	9,763	10,372	10,546	10,546	10,546	10,546	10,546	10,546	10,546	10,546	10,546	10,546	10,546	10,546	206,189
0	316	0	0	0	0	0	0	0	0	0	316	0	0	0	-4,280	9,018
127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	3,312
127	443	127	127	127	127	127	127	127	127	127	443	127	127	127	-4,153	12,330
8,418	8,711	9,636	10,245	10,419	10,419	10,419	10,419	10,419	10,419	10,419	10,103	10,419	10,419	10,419	14,699	193,860
140	487	140	140	140	140	140	140	140	140	140	487	140	140	140	-4,568	
7,263	7,781	8,299	8,816	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	8,964	
8,405	8,667	9,623	10,232	10,406	10,406	10,406	10,406	10,406	10,406	10,406	10,059	10,406	10,406	10,406	15,114	192,627
7,136	7,338	8,172	8,689	8,837	8,837	8,837	8,837	8,837	8,837	8,837	8,521	8,837	8,837	8,837	13,117	162,931
7,124	7,294	8,159	8,677	8,824	8,824	8,824	8,824	8,824	8,824	8,824	8,477	8,824	8,824	8,824	13,532	161,698

Base Case	
EIRR	25.1%
B/C	3.77

EIRR	B/C
Case 1	23.7%
Case 2	22.8%
Case 3	21.5%
Case 1	3.43
Case 2	3.21
Case 3	2.92

Source: JICA Survey Team

COST ESTIMATION

ANNEX

COST ESTIMATE

CHAPTER 1 GENERAL INFORMATION

1.1 Basic Condition of Cost Estimate

The basic conditions and assumptions employed for the project cost estimate are as follows:

- (1) Cost estimate refers to the prices as of January 2012.
- (2) The following exchange rates applied for the cost estimate:
1 US Dollar (US\$) = Rs. 132.0
= JPY 79.0
- (3) Base costs of labor, construction materials and equipment are collected from District Price Fixing Committee (PFC) of every District, Jan. 2012.
- (4) The main unit prices of civil works to be used for estimation of construction cost are the updated unit prices of PEACE Project, these were used in 2008 to 2010. Updating of the unit prices was carried out based on consumer prices indices of equipment, materials and labor between 2008, 2009 and 2010 to 2011 respectively.
- (5) The unit prices in 2011 adjusted by considering escalation were further converted to provincial level unit prices according to the base costs taken from PFC.
- (6) The all costs are estimated using Sri Lanka Rupee (LKR).
- (7) Price escalation rates are assumed to be 2.1%/annum for F/C and 4.0%/annum for L/C.
- (8) Physical contingency is principally set as 5.0%.
- (9) Tax (VAT) is 12% according to the Government regulation.
- (10) Commitment charge of JICA is 0.1%.
- (11) Interest for civil works and procurement during construction is 1.4% and that for consulting services is 0.01% of accumulated loan portion.
- (11) The project cost is categorized into a foreign currency (F/C) portion and a local currency (L/C) portion as stimulated below:

Foreign currency (F/C) portion :

- Heavy equipment for construction, specific equipment and machinery, materials and goods imported from foreign countries
- Foreign consultants of the consulting services

Local currency (L/C) portion :

- Machinery, materials and goods produced/available in Sri Lanka

- Labor cost
 - Local consultants of the consulting services
- (12) Ratios of F/C and L/C for infrastructure works are estimated based on the similar type of project in Sri Lanka and 65% for F/C and 35% for L/C are applied.

1.2 Base prices for labor, material and equipment

Unit prices for construction works in Sri Lanka are different according to the districts thus the same construction works in different district are different each other. Since the Project covers many districts as 11 districts in 5 provinces, average unit prices in a province from related districts in the province are applied, i.e. 5 unit prices in one work category are used for cost estimate for the Project.

The unit prices for construction works are obtained in the following manner:

The latest base prices for labor, materials and equipment of every district which have been issued on January 2012 from every District Price Fixing Committee were obtained. They are summarized in Table 1.

All the base prices of districts in the same province were averaged for the provincial average base prices.

1.3 Correcting Rates for Unit Prices among Provinces for Main Construction Work Items

Proportion of constitution of unit prices is assumed by referring similar projects in Sri Lanka as follows:

- Fixed portion : 30%
- Machine cost : 30%
- Material cost : 25%
- Labor cost : 15%

The correcting rates among provinces are obtained as follows:

Table 2 Correcting Rates for Unit Prices among Provinces

Province	Construction cost correcting rate								
	Fixed	Equipment	Material	Labor	Correcting rate for construction cost				
	30%	30%	25%	15%	EP=1.00	NCP=1.00	NWP=1.00	NP=1.00	UvP1.00
EP	1.00	1.00	1.00	1.00	1.00	0.79	0.85	0.84	1.13
NCP	1.00	1.58	1.25	1.20	1.27	1.00	1.08	1.06	1.43
NWP	1.00	1.57	0.94	1.12	1.18	0.93	1.00	0.99	1.33
NP	1.00	1.52	1.09	1.08	1.19	0.94	1.01	1.00	1.35
U P	1.00	0.87	0.69	0.99	0.88	0.70	0.75	0.74	1.00

Source: JICA Survey Team

1.4 Unit Price for Main Work Items

1.4.1 Unit prices for construction work items

Unit prices for construction works actually applied for Engineering Estimates were obtained from various projects including PEACE project under JICA since 2006 to date. The obtained unit prices were adjusted based on year and place. Concerning price escalation, price indices published by ICTAD Bulletin of Construction Statistics, Jan. 2012 were used in order to convert from year of obtained unit prices to 2012 prices. The obtained unit prices were also adjusted based on the places where the projects were executed by using the correcting rate shown in Table 2.

Table 3 Price Indices for Escalation

Item	Base Year Price Index = 100	Price indices					Escalation from			
		2007	2008	2009	2010	2011	2007 to 2011	2008 to 2011	2009 to 2011	2010 to 2011
1) Equipment										
Small equipment	1990(AVG)	171.9	238.2	336.7	336.7	336.7	1.96	1.41	1.00	1.00
Heavy equipment	1990(AVG)	238.4	274.8	313.7	313.8	313.7	1.32	1.14	1.00	1.00
Fuel	1990(AVG)	586.3	781.8	684.0	713.4	713.4	1.22	0.91	1.04	1.00
2) Major materials										
Cement	1990(AVG)	352.4	394.5	443.8	432.2	432.2	1.23	1.10	0.97	1.00
Cement blocks	1990(AVG)	365.7	395.3	430.9	445.4	460.8	1.26	1.17	1.07	1.03
Rubble	1990(AVG)	387.0	406.6	429.9	455.7	460.9	1.19	1.13	1.07	1.01
Metal	1990(AVG)	208.3	230.5	244.5	258.5	263.2	1.26	1.14	1.08	1.02
Sand	1990(AVG)	1,430.1	1,503.5	1,595.1	1,717.1	1,776.2	1.24	1.18	1.11	1.03
Bricks (machine cut)	1990(AVG)	314.7	352.3	359.6	359.9	361.8	1.15	1.03	1.01	1.01
Lime	1990(AVG)	319.4	367.9	387.1	394.5	398.6	1.25	1.08	1.03	1.01
Reinforcement steel	1990(AVG)	294.8	411.4	460.1	460.1	492.1	1.67	1.20	1.07	1.07
GI sheets	1990(AVG)	316.1	375.9	423.2	447.9	447.9	1.42	1.19	1.06	1.00
PVC pipes	1990(AVG)	427.9	504.6	658.9	632.5	657.0	1.54	1.30	1.00	1.04
Formwork timber	1990(AVG)	589.1	654.9	692.4	702.5	726.8	1.23	1.11	1.05	1.03
General timber	1990(AVG)	649.5	714.4	714.4	755.3	770.9	1.19	1.08	1.08	1.02
Bitumen 80/100, bulk price	1990(AVG)	301.6	446.8	540.5	532.0	515.9	1.71	1.15	0.95	0.97
Ready mixed concrete	1990(AVG)	262.9	290.2	322.0	322.9	340.1	1.29	1.17	1.06	1.05
High tensile steel wire	1990(AVG)	356.0	379.1	512.4	512.4	552.0	1.55	1.46	1.08	1.08
Pre-stressed bridge beams	1990(AVG)	415.7	421.0	516.3	516.3	706.8	1.70	1.68	1.37	1.37
Concrete lamp post	1990(AVG)	403.0	424.8	517.4	517.4	538.5	1.34	1.27	1.04	1.04
Reinforced concrete pipe	1990(AVG)	344.3	385.4	470.0	470.0	463.1	1.35	1.20	0.99	0.99
3) Labour cost										
Skilled labor	1990(AVG)	290.1	304.7	338.9	340.3	363.5	1.25	1.19	1.07	1.07
Semiskilled labor	1990(AVG)	277.7	300.2	336.8	337.9	352.1	1.27	1.17	1.05	1.04
Unskilled labor	1990(AVG)	320.1	342.8	374.2	375.4	407.4	1.27	1.19	1.09	1.09
4) Construction works										

Item	Base Year Price Index = 100	Price indices					Escalation from			
		2007	2008	2009	2010	2011	2007 to 2011	2008 to 2011	2009 to 2011	2010 to 2011
All housing	1990(AVG)	403.4	448.4	484.5	493.2	516.5	1.28	1.15	1.07	1.05
Non residential building	1990(AVG)	368.0	423.5	452.5	459.0	482.2	1.31	1.14	1.07	1.05
Irrigation major	1990(AVG)	283.3	320.1	349.7	351.9	361.0	1.27	1.13	1.03	1.03
Irrigation minor	1990(AVG)	319.9	359.8	386.0	389.9	405.9	1.27	1.13	1.05	1.04
Road works	1990(AVG)	314.9	357.0	383.7	388.7	404.3	1.28	1.13	1.05	1.04

Price Index for all construction

Item	Base Year Price Index = 100	Price indices					Escalation from			
		2007	2008	2009	2010	2011	2007 to 2011	2008 to 2011	2009 to 2011	2010 to 2011
All construction	1990(AVG)	370.2	421.4	453.6	460.5	481.7	1.30	1.14	1.06	1.05

Source: ICTAD Bulletin of Construction Statistics, Jan. 2012 and JICA Survey Team

The unit prices for main construction work items have been finally obtained province by province as shown in the Table 4.

1.4.2 Cost estimate for Lump Sum cost for minor tank rehabilitation works

The cost estimate shall be carried out based on the unit prices discussed above and work quantities. Irrigation tanks in Sri Lanka are classified into 3 types depending on their command areas, i.e. major tanks having more than 400 ha command area, medium tanks between 80 ha. and 400 ha. and minor tanks less than 80 ha respectively. The project will have hundreds of minor tank rehabilitation works, which include various types of works such as bund, intake sluice, headrace channel etc. with unknown work quantities. It is, therefore, necessary to classify types of minor tank rehabilitation for their cost estimate for whole Project area. In this context, the following 3 types were set up for every province.

Table 5 Minor Tank Rehabilitation Type Classifications

Type	Description
Tmi - H	: Rehabilitation of intake/sluice of minor tank
Tmi - HC	: Rehabilitation of intake/sluice and head reach canal of minor tank
Tmi - C	: Rehabilitation of head reach canal of minor tank

Source: JICA Survey Team

The Lump Sum cost of minor tank rehabilitation for every Type and province above is calculated based on assumed quantities as shown in Breakdown of Unit Price, Item No. EP-01 to EP-03, NWP-01 to NWP-03, NCP-01 to NCP-03, NP-01 to NP-03, UP-01 to UP-01 and UP-03 attached hereinafter. The costs to types and provinces are shown in the following Table 6.

Table 6 Lump Sum Cost for Tank Rehabilitation by Type and Province

Unit Rs.1,000/place

Tank Type	Province Rehab. Type	Description of Type of Rehabilitation	EP	NCP	NWP	NP	UP
Minor Tank	Tmi - H	Rehabilitation of tank bund and/or intake of minor tank	1,807	2,286	2,124	2,097	1,596
	Tmi - HC	Rehabilitation of tank bund and/or intake and head reach of main canal from intake of minor tank	9,791	12,387	11,507	11,545	8,645
	Tmi - C	Rehabilitation for head reach of main canal from intake of minor tank	8,077	10,219	9,769	9,818	7,339

Source: JICA Survey Team

1.4.3 Construction Cost for Individual Schemes and Major and Medium Tank Rehabilitation

The projects having proposed cost of more than Rs. 100 million by District and/or DS Division are classified as individual schemes and their costs were calculated based on the proposed work quantities and unit prices set up by the JICA Survey Team as shown in Table 4. Some specific work items were referred from estimate by DS level workshops because no data available for such specific work items. The breakdowns of construction cost for individual schemes are shown hereafter in Item No. BC/IS-01 to BC/IS-07. As for the major or medium tank rehabilitation, the cost of every scheme was calculated according to the estimated work quantities prepared by District and/or DS Division and unit prices set up by the JICA Survey Team as well. The breakdowns of construction cost for major and medium tank rehabilitation are shown hereafter as Item No. BC/Ma-01 to BC/Ma-05 and BC/Me-01 to BC/Me-30.

1.4.4 Construction cost for Feeder Canal for OFC Extension

With rehabilitation of existing irrigation facilities such as tanks and their related facilities, OFC will be extended. So additional feeder canals and drainage canals for new OFC areas are necessary and their costs must be included. The cost of additional feeder canal for OFC in every region is as follows:

Table 7 Cost of Additional Feeder Canal for OFC

Unit Rs./ha

Type of Canal	EP	NCP	NWP	NP	UP
Feeder canal construction cost of extension for OFC	61,346	77,615	72,102	72,907	54,168
Drainage canal construction cost of extension for OFC	21,088	26,681	24,786	25,063	18,621

Source: JICA Survey Team

(Unit Rs)

Item	No.	Province	District	Unit	1	2	3	4	7	8	9	10	11	12	13
					Eastern Province			NCP	NWP		Northern Province			Uva Province	
					Ampara	Trincomalee	Batricaloa	Anura- dhapura	Kurunegala	Puttalam	Mannar	Vavuniya	Mullaitive	Badulla	Monaragala
1. Labour Cost (per day for 8 hrs.)															
Unskilled (Male)		day	750	700	650	800	850	800	700	770	800	650	725		
Unskilled (Female)		day	NA	NA	NA	NA	800	650	NA	660	NA	650	725		
Semiskilled		day	850	800	700	950	850	850	800	825	850	675	750		
Skilled, grade 2		day		1,000	900	1,200	850	1,000	1,000	950	1,000	900	1,150		
Skilled, grade 1		day	1,100	1,100	1,000	1,300	1,100	1,250	1,200	1,100	1,200	1,050	1,200		
Skilled, special grade		day	NA	NA	NA	NA	1,250	1,400	NA	NA	NA	1,150	1,200		
2. Material Cost															
Cement (SLS 107, 50kg)		Bag	790	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Boulder, 12" - 18"		Cu.m	883	890	759	NA	NA	485	NA	NA	NA	NA	NA		
Rubblr 6" - 9"		Cu.m	972	1,002	1,224	1,237	671	636	1,100	1,075	1,075	707	813		
Coarse aggregate (2")		Cu.m	2,049	1,447	1,413	1,502	1,413	1,201	1,750	1,700	1,700	1,237	1,307		
River sand for concrete		Cu.m	1,413	1,272	883	2,756	2,650	1,413	1,300	3,000	1,200	565	883		
Earth		Cu.m	353	177	459	212	141	212	250	210	300	124	177		
Gravel for road		Cu.m	1,060	212	530	318	265	300	210	210	300	265	318		
Brick		100nos	550	700	550	750	700	600	750	850	700	500	620		
Swan timber -class 1		Cu.m	STC rate	NA	STC rate	STC rate	STC rate	STC rate	NA	Quotated P.	STC rate	NA	NA		
Reinforce concre pipe D12", 8' long		piece	NA	NA	NA	NA	NA	NA	NA	NA	3,885	NA	NA		
Reinforce concre pipe D24", 8' long		piece	NA	NA	NA	NA	NA	NA	NA	NA	7,900	NA	NA		
Reinforce concre pipe D36", 8' long		piece	NA	NA	NA	NA	NA	NA	NA	NA	8,500	NA	NA		
3. Equipment Costn (Including fuel, wager)															
Bull Dozer 4D		hr.	1,800	3,000	2,200	3,200	4,034	2,400	4,000	3,200	4,500		2,200		
Bull Dozer 8D		hr.	NA	NA	3,000	NA	NA	NA	NA	7,000	7,500	NA	NA		
Motor Grader		hr.	2,500	2,700	2,800	4,550	3,963	3,300	4,000	3,750	3,500	NA	2,800		
Excavator-PC60		hr.	NA	NA	NA	NA	NA	3,500	NA	2,450	3,500	NA	NA		
Excavator-PC120		hr.	NA	2,350	NA	NA	4,727	NA	3,000	3,500	4,800	NA	NA		
Excavator-PC200		hr.	NA	NA	3,100	NA	NA	NA	NA	5,100	5,500	NA	NA		
Front end roader		hr.	NA	2,800	1,700	3,850	2,738	1,900	3,000	4,600	4,000	NA	1,400		
Tractor water tanker 4000Lit.		day	NA	3,500	2,800	13,000	7,229	2,800	NA	4,750	5,000	3,200	2,800		
Concrete mixer-10/7 cu.ft		day	4,576	3,822	NA	NA	1,200	NA	4,500	3,650	4,000	NA	NA		
Poker vibrator		day	1,670	NA	NA	NA	NA	NA	3,000	3,650	4,000	NA	NA		
Vibrating roller		hr.	NA	NA	1,500	NA	5,490	1,500	3,000	2,500	3,000	NA	1,500		
Road roller		day	NA	6,750	NA	NA	8,404	NA	NA	NA	NA	NA	NA		

Source : District Price Fixing Committee of every District, Jan. 2012 (publish twice a year)

Table 1 Base Cost of Labor, Materials and Equipment by District

Reference No.	Work Item	Unit	BUP-01	Base Province	Applied Unit Price by Province (Rs)					Reference breakdown
					EP	NCP	NWP	NP	UP	
UP-1	Clearing & Grubbing	ha	28,605	NP	24,069	30,452	28,289	28,605	21,253	PEACE PJT
UP-2	Stripping of top soil	m3	118	NP	99	126	117	118	88	PEACE PJT
UP-3	Forming bund from borrow of 1-2 km	m3	362	EP	362	458	425	430	320	PEACE PJT
UP-3-1	Slope protection for tank bund	m3	450	NP	379	479	445	450	334	PEACE PJT
UP-4	Gravel bedding for road / canal bund (B=3m, t=20cm)	m	599	NP	504	638	592	599	445	PEACE PJT
UP-5	Excavation & backfilling	m3	738	NP	621	786	730	738	548	PEACE PJT
UP-6	Desilting / excavation for canal	m3	391	NP	329	416	387	391	291	PEACE PJT
UP-7	Concrete 1:3:6 (40) include. necessary works	m3	17,283	NP	14,542	18,399	17,092	17,283	12,841	PEACE PJT
UP-8	Re-inforced concrete, incl. form etc.	m3	30,970	EP	30,970	39,184	36,400	36,807	27,347	PEACE PJT
UP-9	Main canal lining	m	12,780	NP	10,753	13,605	12,639	12,780	9,495	PEACE PJT
UP-9-1	Main canal lining for minor tank	m	7,668	NP	6,452	8,163	7,583	7,668	5,697	UP-09x60%
UP-10	Desilting canal & repairing & canal lining	m	9,935	EP	9,935	12,570	11,677	11,807	8,773	PEACE PJT
UP-11	Turnout of MC	no	149,112	NP	125,466	158,741	147,466	149,112	110,787	PEACE PJT
UP-12	Culvert of MC	no	288,174	NP	242,476	306,783	284,993	288,174	214,106	PEACE PJT
UP-13	Metalling & tarring of access road	m	3,834	EP	3,834	4,851	4,506	4,557	3,385	PEACE PJT
UP-14	Field canal rehabilitation including structure	m	2,869	NCP	2,268	2,869	2,665	2,695	2,002	PEACE PJT
UP-15	Building work	m2	34,615	EP	34,615	43,795	40,685	41,139	30,565	PEACE PJT
UP-16	Agro well - Type 1 : 4m dia. 6m deep	no	498,000	EP	498,000	630,075	585,321	591,855	439,734	BUP-01
UP-17	Agro well - Type 2 : 2.5m dia. 6m deep	no	348,600	EP	348,600	441,053	409,725	414,299	307,814	70% of UP-16
UP-18	Sprinkler kit for 500m2	no	328,900	Common	328,900	328,900	328,900	328,900	328,900	Quotation
UP-19	Feeder canal by concrete lining for OFC	ha	61,346	EP	61,346	77,615	72,102	72,907	54,168	BUP-04
UP-20	Water pump for agro well	ha	60,000	Common	60,000	60,000	60,000	60,000	60,000	Quotation
UP-21	Drainage canal construction for OFC	ha	21,088	EP	21,088	26,681	24,786	25,063	18,621	BUP-02
UP-22	Drying floor, 100m2	no	181,000	EP	181,000	229,003	212,737	215,112	159,823	BUP-03
UP-23	Collecting center building, 200m2	no	2,645,782	EP	2,645,782	3,347,472	3,109,702	3,144,417	2,336,226	BUP-05
UP-25	Electric fence (protect from elephants)	km	581,000	Common	587,000	581,000	581,000	581,000	581,000	BUP-06 based on quotation
UP-26	Drip irrigation system	ha	62,000	common	587,000	62,000	62,000	62,000	62,000	BUP-07

Source : JICA Survey Team

Table 4 Unit Prices of Main Work Items by Province

Scheme	Tank/Anicut Type	Covering area	Type of Rehabilitation Symbol	Subject work item for rehabilitation			Number of scheme	Proposed cost (Rs. Million)		
				Headwork /intake	Canal	Others		Range	Average	Toatl
Conglomerate, cost less than 100 million Rs.	Minor	A<80ha	T3-H	●		-	146	1.0 - 10.0	2.46	359.2
			T3-HC	●	●	-	532	1.0 - 20.0	3.17	1,688.0
			T3-C		●	-	24	0.3 - 12.0	3.26	78.3
	Medium	400>A>80ha	T2-H	●		-	15	2.0 - 20.0	5.43	81.5
			T2-HC	●	●	-	51	2.0 - 87.0	19.81	1,010.5
			T2-C		●	-	19	2.0 - 50.0	14.03	266.5
	Major	A>400 ha	T1-H	●		-	0	-	-	0.0
			T1-HC	●	●	-	1	-	90.00	90.0
			T1-C		●	-	0	-	-	0.0
	Total							788	-	3,574.0
Individual Scheme with cost of more than 100 million R	Neelabemma Scheme - Improvement of Sub System (Phase III)			●	●	●	1			491.0
	Improvements to Ingnimitiya scheme (LB Chl system)				●	●	1			500.0
	Construction of Diversion weir across Parangi aru and inlet canal to Kurai tank (Kurai GND)				●	Anicut	1			310.0
	Augmentation of Kurai tank (Kurai GND)			●	●		1			410.0
	Rehabilitation of Welimaruthamadu Irrigation scheme (Pallamadu GND)			●	●	●	1			180.0
	Reh of Vavunikulam Tank - Right Bank Lift Irrigation System				●	Pump	1			225.0
	Rehabilitation of Muthayankaddu Irrigation Scheme (Lift Irrigation Scheme)				●	Pump	1			382.0
	Improvements to Mahanaga Project Anicut & Canal			●	●	●	1			300.0
	Restoration of Boileruwa Tank			●	●	●	1			82.0
	System H in NCP			●	●	●	1			607.6
	System H in NWP			●	●	●	1			28.6
	Total									

Source : JICA Survey Team based on long list from DS Divisions

Table 8 Analysis on the Costs proposed by DS by Tank Rehabilitation Types

CHAPTER 2 PROJECT COST AND ITS BREAKDOWN

2.1 Total Project Cost

No.	Item / Program	Total Investment Cost (Rs. mil.)	Eligible Portion			Non-eligible Portion (Rs. Mil.)	Remarks
			F/C	L/C	Total		
			(JPY mil.)	(Rs. Mil.)	(JPY mil.)		
1.	Mobilization of PMU and PIUs						
	Mobilization of PMU and PIUs	176	105	0	105	0	
2.	Agricultural Crop Promotion Program	9,015	3,335	3,442	5,393	0	
2-1	Productivity Improvement Program (Agricultural Crop)	7,574	2,827	2,852	4,533	0	
	1) Rehabilitation of irrigation facility	3,885	1,512	1,360	2,326	0	
	i) Individual sub schemes	2,417	940	846	1,447	0 7 schemes	
	ii) Major tank rehabilitation	137	53	48	82	0 5 schemes	
	iii) Medium tank rehabilitation	489	190	171	293	0 32 schemes	
	iv) Minor tank rehabilitation	842	327	295	504	0 71 schemes	
	2) Agro well provision	2,694	1,061	920	1,612	0 5,671 nos for new & rehab.	
	3) Micro irrigation system	206	53	118	123	0	
	4) Enhancement of supply chain of quality seed and planting material	790	201	454	472	0	
2-2	Logistic System Improvement and Entrepreneurs Development Program	1,323	461	552	790	0	
	1) Established of proper interface and incubation	341	107	161	204	0	
	2) Improvement of farmers' storage facility	231	69	116	138	0	
	3) Upgrading of DEC and construction of collecting centre	86	26	43	51	0	
	4) Rural road and farm access road rehabilitation	655	255	229	392	0	
	5) Study tour	9	4	3	5	0	
2-3	Program on Enhancement of Extension Services and Ground Level Research	118	47	38	70	0	
	1) Training to extension officers	7	0	7	4	0	
	2) Training facility improvement	81	35	22	48	0	
	3) Overseas training	30	12	9	18	0	
3.	Livestock Product Promotion Program	1,042	303	536	627	0	
3-1	Productivity Improvement Program of Milk	702	189	386	420	0	
	1) Milk production improvement program	702	189	386	420	0	
3-2	Program on Market Development on Fresh Milk	187	58	91	112	0	
	1) Milk marketing program	161	58	65	97	0	
	2) Training of milk production and market network improvement	26	0	26	15	0	
3-3	Livestock Service Quality and Accessibility Improvement Program	153	56	59	95	0	
	1) Improvement of cold chain for semen transport	8	0	8	8	0	
	2) Livestock Training Program	7	0	7	4	0	
	3) Livestock services program	138	56	44	83	0	
4.	Sub-Total of 1 to 3 (Base Cost for Programs and PMU Mobilization)	10,233	3,743	3,978	6,125	0	
5.	Price Contingency of 4	1,548	402	876	926	0 FC:2.1%, LC:4.0%/year	
6.	Physical Contingency of 4	589	207	243	352	0 =(4+5) x 5%	
	Sub-Total 1 to 6	12,370	4,352	5,097	7,403	0	
7.	Consulting Services						
	7.1 Base Cost	2,462	392	1,806	1,473	0	
	7.2 Price Contingency	359	39	376	264	0 FC:2.1%, LC:4.0%/year	
	7.3 Physical Contingency	141	22	109	87	0 =(4+5) x 5%	
	Sub-Total 7	2,962	453	2,291	1,824	0	
8.	Interest during Const	712	426	0	426	0 0.01% for CS, 1.4% for others	
9.	Commitment Charge	15	9	0	9	0 0.1% of Eligible portion	
	Total 1 to 9 (Eligible Portion)	16,059	5,240	7,388	9,662	0	
10.	Administration and Other Cost	2,502				2,502	
	1) Administration Cost	582				582	
	2) Tax & Duty	1,920				1,920	
	GRAND TOTAL 1 to 10	18,561	5,240	7,388	9,662	2,502	

Note : US\$ 1.0 = JP 79.0 Source : estimated by JICA Study Team 11,108
= Rs 132.0
JPY 1.0 = Rs. 0.598

2.2 Summary of Cost Estimate for the Project

Summary of Cost Estimate for Project (1/2)

No.	Program	Inputs	Total Amount (Rs.1,000)			Remarks	
			Eligible Portion				Non-eligible portion
			F/C	L/C	Total		L/C
1.	Mobilization of PMU and PIUs		175,571	0	175,571		
	1) Vehicle and equipment		154,056	0	154,056		
	2) Office equipment		21,515	0	21,515		
2.	Agricultural Crop Promotion Program		5,573,279	3,442,027	9,015,306		
2-1	Productivity Improvement Program (Agricultural Crop)		4,723,276	2,851,670	7,574,946		
	1) Rehabilitation of irrigation facility		2,525,572	1,359,924	3,885,496		
	i) Individual sub schemes		1,571,341	846,107	2,417,448		
	ii) Major tank rehabilitation		89,333	48,103	137,436		
	iii) Medium tank rehabilitation		317,710	171,075	488,785		
	iv) Minor tank rehabilitation		547,188	294,640	841,827		
	2) Agro well provision		1,773,626	920,131	2,693,757		
	3) Micro irrigation system		87,994	117,612	205,606		
	4) Enhancement of supply chain of quality seed and planting material		336,084	454,004	790,088		
	i) Provision of equipment & machinery for seed laboratory		2,505	0	2,505		
	ii) Provision of seed farms		22,665	27,285	49,950		
	iii) Farmer training program on quality self-seed & planting material prod		0	3,703	3,703		
	iv) Farmer training program on improvement of farm management etc.		0	139,110	139,110		
	v) Supply of machinery and equipment		310,914	283,906	594,820		
2-2	Logistic System Improvement and Entrepreneurs Development Program		770,493	552,217	1,322,710		
	1) Established of proper interface and incubation		179,507	161,471	340,978		
	i) Establishment of collecting points		179,507	161,471	340,978		
	2) Improvement of farmers' storage facility		115,650	115,650	231,300		
	3) Upgrading of DEC and construction of collecting centre		43,000	43,000	86,000		
	i) Upgrading of DEC		43,000	43,000	86,000		
	- Dambulla at DA Matale		32,000	32,000	64,000		
	- Thambuttegama at Anuradapura		11,000	11,000	22,000		
	4) Rural road and farm access road rehabilitation		425,960	229,363	655,324		
	5) Study tour		6,376	2,732	9,108		
2-3	Program on Enhancement of Extension Services and Ground Level Research		79,510	38,140	117,650		
	1) Training to extension officers		0	6,930	6,930		
	i) Project Awareness		0	1,350	1,350		
	ii) Farm management improvement		0	2,520	2,520		
	iii) Best Practices in OFC Cultivation		0	540	540		
	iv) Best Practices in Fruit Cultivation		0	540	540		
	v) Farm Business Management		0	900	900		
	vi) Exposure visits for experience sharing		0	1,080	1,080		
	2) Training facility improvement		58,720	22,300	81,020		
	- DATC Bibile at Moneragala		4,000	6,000	10,000		
	- ISTC Bindunuwewa at Badulla		14,700	16,300	31,000		
	- Motor cycle		37,620	0	37,620		
	- Personal computer		2,400	0	2,400		
	3) Overseas training		20,790	8,910	29,700		
	- Overseas training for OFCs		13,860	5,940	19,800		
	- Overseas training for fruit		6,930	2,970	9,900		

Summary of Cost Estimate for Project (2/2)

No.	Program	Inputs	Total Amount (Rs.1,000)			Remarks	
			Eligible Portion				Non-eligible portion
			F/C	L/C	Total		L/C
3.	Livestock Product Promotion Program		506,310	535,763	1,042,073		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer		315,839	385,750	701,588		
	Milk	1) Milk production improvement program	315,839	385,750	701,588		
		i) Feeding improvement program	289,939	145,694	435,632		
		- Individual Fodder Development(Unit) 5 years	37,510	37,510	75,020		
		- Straw Bailing Unit	187,139	80,203	267,342		
		- Bio-mass Pelleting units	37,428	16,041	53,468		
		- Grass choppers	27,300	11,700	39,000		
		- Supply of seeds of pasture and legumes	561	241	802		
		ii) Breeding program	0	196,000	196,000		
		- Estrus Synchronization(head for 5years)	0	96,000	96,000		
		- Artificial Insemination(times for 5 years)	0	100,000	100,000		
		iii) Goat breeding program	25,900	42,856	68,756		
		- Goat breeding farm	20,900	20,900	41,800		
		- Breeding female goat	0	6,600	6,600		
		- Provision & rehabilitation of facility for Thelahara	5,000	5,000	10,000		
		- Goat provision	0	10,356	10,356		
		iv) Training for feeding improvement	0	1,200	1,200		
		- Production planning,financial management etc.	0	300	300		
		- Awareness and utilization of crop residue	0	300	300		
		- Technical training on products from crop residue	0	300	300		
		- Improving nutritive quality of crop residue	0	300	300		
3-2	Program on Market Development on Fresh Milk		96,171	91,126	187,297		
		1) Milk marketing program	96,171	65,326	161,497		
		- Issuing Milk Canister 40L	0	3,140	3,140		
		- Issuing Milk Canister 20L	0	20,970	20,970		
		- Mobile Milk sale	7,280	3,120	10,400		
		- UHTmilk Processing	74,856	32,081	106,937		
		- Chilling Tank 1500 liters	14,035	6,015	20,051		
		2) Training of milk production and market network improvement	0	25,800	25,800		
		- Clean milk production (1 day training)	0	24,300	24,300		
		- O&M of UHT processing plant (3 day training)	0	540	540		
		- Establishment of effective milk collection (3 day training)	0	465	465		
		- Market planning etc. (3 day training)	0	495	495		
3-3	Livestock Service Quality and Accessibility Improvement Program		94,301	58,888	153,188		
		1) Improvement of cold chain for semen transport	0	8,216	8,216		
		- Liquid Nitrogen Tank	0	1,950	1,950		
		- Semen canister (Big)	0	3,250	3,250		
		- Semen canister (Middle)	0	936	936		
		- AI kits	0	2,080	2,080		
		2) Livestock Training Program	0	6,915	6,915		
		i) Training of trainers	0	6,165	6,165		
		ii) Training of input suppliers	0	750	750		
		3) Livestock services program	94,301	43,757	138,057		
		i) Livestock service center	94,301	43,757	138,057		
		- Construction of livestock service center	43,757	43,757	87,513		
		- Pickup track	41,772	0	41,772		
		- Motor cycle	8,772	0	8,772		
		TOTAL OF PROGRAMS COST AND MOBILIZATION COST (1 + 2 + 3)	6,255,161	3,977,790	10,232,951		
4.	Consulting Services		655,806	1,805,730	2,461,536		
		1) Remuneration for Pro-A	479,043		479,043		
		2) Remuneration for Pro-B		690,550	690,550		
		3) Sun professional & office supporting staff		747,760	747,760		
		4) Direct cost	176,763	367,420	544,183		
5.	Administration Cost				582,000		
		GRAND TOTAL (1 to 5)	6,910,967	5,783,520	12,694,487	582,000	
						13,276,487	

Note : US\$ 1.0 = JPY 79.0
= Rs. 132.0
JPY 1.0 = Rs. 0.598

COST BREAKDOWN for PROGRAM COST by ZONE (1/3)

1.0USS = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Amount (Rs.1,000)												Remarks			
					Zone-01			Zone-02			Zone-03			Zone-04				Total		
					Eligible		Total	Eligible		Total	Eligible		Total	Eligible		Total		Eligible		Total
					F/C	L/C		F/C	L/C		F/C	L/C		F/C	L/C			F/C	L/C	
1.	Mobilization of PMU and PIUs																			
	Incorporated in the Summary																			
2.	Agricultural Crop Promotion Program				2,241,955	1,284,704	3,526,659	1,528,896	991,578	2,520,474	1,189,410	756,880	1,946,291	613,018	408,865	1,021,883	5,573,279	3,442,027	9,015,306	
2-1	Productivity Improvement Program (Agricultural Crop)				1,970,878	1,111,658	3,082,537	1,174,617	745,258	1,919,876	1,051,102	657,056	1,708,158	526,678	337,698	864,376	4,723,276	2,851,670	7,574,946	
	1) Rehabilitation of irrigation facility				1,468,401	790,678	2,259,079	511,672	275,516	787,188	498,397	268,368	766,765	47,102	25,363	72,464	2,525,573	1,359,924	3,885,496	
	i) Individual sub schemes		7	scheme	993,887	535,170	1,529,057	244,287	131,539	375,827	333,167	179,397	512,564				1,571,341	846,107	2,417,448	7 schemes
	- Kural Tank augmentation and Parangi aru		1	LS	269,335	145,026	414,361									269,335	145,026	414,361		
	- Welmaruthamadu Irrigation scheme		1	LS	80,759	43,485	124,244									80,759	43,485	124,244		
	- Muthayankaddu Tank Lift Irrigation Scheme		1	LS	395,959	213,208	609,167									395,959	213,208	609,167		
	- Vavunikulam Tank - Right & Left Banks Lift		1	LS	247,835	133,450	381,285									247,835	133,450	381,285		
	- Mahaweli System H scheme		1	LS				244,287	131,539	375,827						244,287	131,539	375,827		
	- Ingimittiya scheme		1	LS							268,032	144,325	412,357			268,032	144,325	412,357		
	- Neelabemma Scheme (Phase II)		1	LS							65,135	35,072	100,207			65,135	35,072	100,207		
	ii) Major tank rehabilitation		5	scheme	25,349	13,649	38,998	52,523	28,282	80,805	11,461	6,172	17,633	0	0	0	89,333	48,103	137,436	
	iii) Medium tank rehabilitation		32	scheme	271,901	146,408	418,310	30,057	16,184	46,241	12,882	6,937	19,819	2,870	1,545	4,415	317,710	171,075	488,785	
	iv) Minor tank rehabilitation		71	scheme	177,264	95,450	272,714	184,805	99,510	284,315	140,887	75,862	216,749	44,232	23,817	68,049	547,188	294,640	841,827	
	2) Agro well provision				437,584	227,044	664,627	522,636	272,072	794,708	383,347	199,390	582,737	430,059	221,625	651,684	1,773,626	920,131	2,693,757	
	- Construction of new agro wells		2,670	nos	230,100	123,900	354,000	280,598	151,091	431,688	204,306	110,011	314,317	217,229	116,969	334,198	932,232	501,971	1,434,204	
	- Rehabilitation of agro wells		3,001	nos	129,420	69,688	199,107	156,975	84,525	241,500	115,089	61,971	177,060	122,334	65,872	188,206	523,817	282,056	805,873	
	- Provision of pumps and accessories		5,671	set	78,064	33,456	111,520	85,064	36,456	121,520	63,952	27,408	91,360	90,496	38,784	129,280	317,576	136,104	453,680	
	3) Micro irrigation system				14,945	12,945	27,890	23,902	33,844	57,746	27,037	41,159	68,195	22,110	29,664	51,775	87,994	117,612	205,606	
	- Sprinkler irrigation for 500m2		200	set	11,512	4,934	16,445	11,512	4,934	16,445	11,512	4,934	16,445	11,512	4,934	16,445	46,046	19,734	65,780	
	- Drip irrigation system		2,248	ha	3,433	8,011	11,445	12,390	28,911	41,301	15,525	36,225	51,750	10,599	24,731	35,330	41,948	97,878	139,826	
	4) Enhancement of supply chain of quality seed and planting material				49,949	80,992	130,941	116,407	163,826	280,233	142,321	148,140	290,461	27,408	61,046	88,453	336,084	454,004	790,088	
	i) Provision of equipment & machinery for seed laboratory				1,002	0	1,002	0	0	0	1,002	0	1,002	501	0	501	2,505	0	2,505	
	- Tool equipment & machinery		5	set	1,002	0	1,002	0	0	0	1,002	0	1,002	501	0	501	2,505	0	2,505	
	ii) Provision of seed farms				9,065	8,885	17,950	0	0	0	8,325	12,425	20,750	5,275	5,975	11,250	32,665	27,285	49,950	
	- Vaunia farm		1	LS	6,875	7,375	14,250									6,875	7,375	14,250		
	- Kantale farm		1	LS	2,190	1,510	3,700									2,190	1,510	3,700		
	- Wariyapola seed farm		1	LS							4,000	6,000	10,000			4,000	6,000	10,000		
	- Galgamuwa seed farm		1	LS							4,325	6,425	10,750			4,325	6,425	10,750		
	- Okkamptiya farm		1	LS										5,275	5,975	11,250	5,275	5,975	11,250	
	iii) Farmer training program on quality self-seed & planting material production				0	840	840	0	2,191	2,191	0	375	375	0	297	297	0	3,703	3,703	
	- Quality self-seed production for OFCs				0	615	615	0	1,592	1,592	0	200	200	0	179	179	0	2,586	2,586	
	- Certified seed production for OFCs				0	205	205	0	531	531	0	67	67	0	60	60	0	863	863	
	- Quality planting material production for fruits				0	20	20	0	68	68	0	108	108	0	58	58	0	254	254	
	iv) Farmer training program on improvement of farm management etc.				0	24,690	24,690	0	29,460	29,460	0	57,420	57,420	0	27,540	27,540	0	139,110	139,110	
	- Farm management improvement		43,200	day	0	7,200	7,200	0	8,640	8,640	0	18,000	18,000	0	9,360	9,360	0	43,200	43,200	
	- OFCs production improvement		22,890	day	0	2,310	2,310	0	2,940	2,940	0	10,080	10,080	0	7,560	7,560	0	22,890	22,890	
	- Fruits production improvement		29,820	day	0	7,980	7,980	0	9,240	9,240	0	11,340	11,340	0	1,260	1,260	0	29,820	29,820	
	- Study tour		180	time	0	7,200	7,200	0	8,640	8,640	0	18,000	18,000	0	9,360	9,360	0	43,200	43,200	
	v) Supply of machinery and equipment				39,882	46,577	86,459	116,407	132,175	248,582	132,994	77,920	210,914	21,632	27,234	48,865	310,914	283,906	594,820	
	- Manual highland seeder for pulses		368	no.	635	1,481	2,115	3,888	9,072	12,960	378	882	1,260	68	158	225	4,968	11,592	16,560	5 Ac/day
	- Highland weeder		368	no.	705	1,645	2,350	4,320	10,080	14,400	420	980	1,400	75	175	250	5,520	12,880	18,400	
	- Ridger		184	no.	72	168	240	432	1,008	1,440	42	98	140	6	14	20	552	1,288	1,840	
	- Ground nut decorticating machine		52	no.	21	49	70	120	280	400	12	28	40	3	7	10	156	364	520	15 kg/hr
	- Pulse splitting machine		134	no.	972	2,268	3,240	5,616	13,104	18,720	540	1,260	1,800	108	252	360	7,236	16,884	24,120	30-40 kg/hr
	- Pulse cleaning machine		134	no.	270	630	900	1,560	3,640	5,200	150	350	500	30	70	100	2,010	4,690	6,700	
	- Grinding machine for flour making		397	no.	1,823	4,253	6,076	4,297	10,025	14,322	651	1,519	2,170	614	1,432	2,046	7,384	17,230	24,614	
	- Barbed wire fence		1,942	km	10,982	25,626	36,608	22,968	53,592	76,560	8,791	20,513	29,304	8,527	19,897	28,424	51,269	119,627	170,896	

COST BREAKDOWN for PROGRAM COST by ZONE (2/3)

1.0USS = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Amount (Rs.1,000)															Remarks
					Zone-01			Zone-02			Zone-03			Zone-04			Total			
					Eligible			Eligible			Eligible			Eligible			Eligible			
					F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	
		- Electric fence (protect from elephants)	570	km	24,402	10,458	34,860	73,206	31,374	104,580	122,010	52,290	174,300	12,201	5,229	17,430	231,819	99,351	331,170	with solar system
2-2	Logistic System Improvement and Entrepreneurs Development Program				258,288	169,762	428,050	329,328	239,868	569,196	126,146	96,656	222,803	56,731	45,930	102,662	770,493	552,217	1,322,710	
		1) Established of proper interface and incubation			45,219	40,877	86,097	36,815	33,475	70,289	65,430	59,084	124,515	32,043	28,035	60,077	179,507	161,471	340,978	
		i) Establishment of collecting points			45,219	40,877	86,097	36,815	33,475	70,289	65,430	59,084	124,515	32,043	28,035	60,077	179,507	161,471	340,978	
		- Facilities for collecting point	108	place	40,877	40,877	81,755	33,475	33,475	66,949	59,084	59,084	118,169	28,035	28,035	56,069	161,471	161,471	322,942	
		- Equipment for collecting points	108	set	4,342	0	4,342	3,340	0	3,340	6,346	0	6,346	4,008	0	4,008	18,036	0	18,036	
		2) Improvement of farmers' storage facility			31,050	31,050	62,100	63,300	63,300	126,600	10,950	10,950	21,900	10,350	10,350	20,700	115,650	115,650	231,300	
		- Renovation of farmers' storage, onion	2,590	no	14,700	14,700	29,400	16,050	16,050	32,100	3,600	3,600	7,200	4,500	4,500	9,000	38,850	38,850	77,700	
		- Renovation of farmers' storage, chili	5,120	no	16,350	16,350	32,700	47,250	47,250	94,500	7,350	7,350	14,700	5,850	5,850	11,700	76,800	76,800	153,600	
		3) Upgrading of DEC and construction of collecting centre			0	0	0	43,000	43,000	86,000	0	0	0	0	0	0	43,000	43,000	86,000	
		i) Upgrading of DEC			0	0	0	43,000	43,000	86,000	0	0	0	0	0	0	43,000	43,000	86,000	
		- Dambulla at DA Matala	1	LS				32,000	32,000	64,000						32,000	32,000	64,000		
		- Thambuttegama at Anuradapura	1	LS				11,000	11,000	22,000						11,000	11,000	22,000		
		4) Rural road and farm access road rehabilitation			180,424	97,152	277,576	184,619	99,410	284,030	48,172	25,939	74,111	12,745	6,862	19,607	425,960	229,363	655,324	
		- Improvement of access roads to market	86.0	km	84,411	45,452	129,862	120,867	65,082	185,949	19,332	10,409	29,741	5,281	2,844	8,125	229,891	123,787	353,678	
		- Improvement of farm roads	541.9	km	96,014	51,700	147,713	63,752	34,328	98,081	28,840	15,529	44,370	7,463	4,019	11,482	196,070	105,576	301,646	
		5) Study tour			1,594	683	2,277	1,594	683	2,277	1,594	683	2,277	1,594	683	2,277	6,376	2,732	9,108	
		- To potential impact countries	1	LS	901	386	1,287	901	386	1,287	901	386	1,287	901	386	1,287	3,604	1,544	5,148	
		- To active export countries	1	LS	693	297	990	693	297	990	693	297	990	693	297	990	2,772	1,188	3,960	
2-3	Program on Enhancement of Extension Services and Ground Level Research				12,789	3,284	16,073	24,951	6,452	31,403	12,162	3,168	15,330	29,608	25,237	54,845	79,510	38,140	117,650	
		1) Training to extension officers			0	1,502	1,502	0	2,888	2,888	0	1,386	1,386	0	1,155	1,155	0	6,930	6,930	
		i) Project Awareness	1,800	day	0	293	293	0	563	563	0	270	270	0	225	225	0	1,350	1,350	
		ii) Farm management improvement	2,520	day	0	546	546	0	1,050	1,050	0	504	504	0	420	420	0	2,520	2,520	
		iii) Best Practices in OFC Cultivation	540	day	0	117	117	0	225	225	0	108	108	0	90	90	0	540	540	
		iv) Best Practices in Fruit Cultivation	540	day	0	117	117	0	225	225	0	108	108	0	90	90	0	540	540	
		v) Farm Business Management	900	day	0	195	195	0	375	375	0	180	180	0	150	150	0	900	900	
		v) Exposure visits for experience sharing	540	day	0	234	234	0	450	450	0	216	216	0	180	180	0	1,080	1,080	
		2) Training facility improvement			8,631	0	8,631	16,635	0	16,635	8,004	0	8,004	25,450	22,300	47,750	58,720	22,300	81,020	
		- DATC Bibile at Moneragala											4,000	6,000	10,000	4,000	6,000	10,000		
		- ISTC Bindumuwewa at Badulla											14,700	16,300	31,000	14,700	16,300	31,000		
		- Motor cycle	180	no	8,151	0	8,151	15,675	0	15,675	7,524	0	7,524	6,270	0	6,270	37,620	0	37,620	
		- Personal computer	20	no	480	0	480	960	0	960	480	0	480	480	0	480	2,400	0	2,400	
		3) Overseas training			4,158	1,782	5,940	8,316	3,564	11,880	4,158	1,782	5,940	4,158	1,782	5,940	20,790	8,910	29,700	
		- Overseas training for OFCs	5	person	2,772	1,188	3,960	5,544	2,376	7,920	2,772	1,188	3,960	2,772	1,188	3,960	13,860	5,940	19,800	
		- Overseas training for fruit	5	person	1,386	594	1,980	2,772	1,188	3,960	1,386	594	1,980	1,386	594	1,980	6,930	2,970	9,900	
3.	Livestock Product Promotion Program				140,064	108,088	248,153	157,375	167,237	324,612	129,946	167,544	297,490	78,925	92,894	171,818	506,310	535,763	1,042,073	
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer				69,777	60,379	130,156	89,258	113,899	203,157	97,799	138,487	236,286	59,004	72,985	131,989	315,839	385,750	701,588	
		1) Milk production improvement program			69,777	60,379	130,156	89,258	113,899	203,157	97,799	138,487	236,286	59,004	72,985	131,989	315,839	385,750	701,588	
		i) Feeding Project																		
		- Individual Fodder Development (Unit) 5 years	3,751	plot	5,310	5,310	10,620	11,700	11,700	23,400	12,000	12,000	24,000	8,500	8,500	17,000	37,510	37,510	75,020	
		- Straw Baling Unit	100	unit	50,528	21,655	72,182	52,399	22,457	74,856	46,785	20,051	66,835	37,428	16,041	53,468	187,139	80,203	267,342	
		- Bio-mass Pelleting units	10	unit	7,486	3,208	10,694	14,971	6,416	21,387	7,486	3,208	10,694	7,486	3,208	10,694	37,428	16,041	53,468	
		- Grass choppers	60	unit	6,370	2,730	9,100	10,010	4,290	14,300	5,460	2,340	7,800	5,460	2,340	7,800	27,300	11,700	39,000	
		- Supply of seeds of pasture and legumes	84	pack	84	36	120	178	76	254	168	72	241	131	56	187	561	241	802	30 kg/pack
		Sub-Total			69,777	32,939	102,716	89,258	44,939	134,197	71,899	37,671	109,570	59,004	30,145	89,149	289,939	145,694	435,633	
		ii) Breeding program																		
		- Estrus Synchronization(head for 5 years)	48,000	time	0	12,000	12,000	0	32,000	32,000	0	32,000	32,000	0	20,000	20,000	0	96,000	96,000	
		- Artificial Insemination(times for 5 years)	200,000	time	0	12,800	12,800	0	33,000	33,000	0	33,400	33,400	0	20,800	20,800	0	100,000	100,000	

COST BREAKDOWN for PROGRAM COST by ZONE (3/3)

1.0USS = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Amount (Rs.1,000)														Remarks		
					Zone-01			Zone-02			Zone-03			Zone-04			Total				
					Eligible			Eligible			Eligible			Eligible			Eligible				
					F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C	Total	F/C	L/C		Total	
		Sub-Total			0	24,800	24,800	0	65,000	65,000	0	65,400	65,400	0	40,800	40,800	0	196,000	196,000		
		iii) Goat breeding program																			
		- Goat breeding farm	3,800	place	0	0	0	0	0	0	20,900	20,900	41,800	0	0	0	20,900	20,900	41,800		
		- Breeding female goat	600	head	0	0	0	0	0	0	0	6,600	6,600	0	0	0	0	6,600	6,600		
		- Provision & rehabilitation of facility for Thelahara	1	LS	0	0	0	0	0	0	5,000	5,000	10,000	0	0	0	5,000	5,000	10,000		
		- Goat provision	3,452	head	0	2,400	2,400	0	3,600	3,600	0	2,556	2,556	0	1,800	1,800	0	10,356	10,356		
		Sub-Total			0	2,400	2,400	0	3,600	3,600	25,900	35,056	60,956	0	1,800	1,800	25,900	42,856	68,756		
		iv) Training for feeding improvement																			
		- Production planning, financial management etc.	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		- Awareness and utilization of crop residue	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		- Technical training on products from crop residue	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		- Improving nutritive quality of crop residue	200	day	0	60	60	0	90	90	0	90	90	0	60	60	0	300	300		
		Sub-Total			0	240	240	0	360	360	0	360	360	0	240	240	0	1,200	1,200		
		3-2 Program on Market Development on Fresh Milk through Enhancement of Cooperative or SM			42,055	31,519	73,574	35,505	29,990	65,495	14,348	18,348	32,696	4,263	11,269	15,532	96,171	91,126	187,297		
		1) Milk marketing program																			
		- Issuing Milk Canister 40L	210	no	0	777	777	0	867	867	0	748	748	0	748	748	0	3,140	3,140		
		- Issuing Milk Canister 20L	3,000	no	0	4,544	4,544	0	5,942	5,942	0	6,291	6,291	0	4,194	4,194	0	20,970	20,970		
		- Mobile Milk sale	20	unit	1,820	780	2,600	1,820	780	2,600	2,184	936	3,120	1,456	624	2,080	7,280	3,120	10,400		
		- UHT milk Processing	8	unit	37,428	16,041	53,468	28,071	12,030	40,101	9,357	4,010	13,367	0	0	0	74,856	32,081	106,937		
		- Chilling Tank 1500 liters	10	no	2,807	1,203	4,010	5,614	2,406	8,020	2,807	1,203	4,010	2,807	1,203	4,010	14,035	6,015	20,051		
		Sub-Total			42,055	23,344	65,399	35,505	22,025	57,530	14,348	13,188	27,536	4,263	6,769	11,032	96,171	65,326	161,497		
		2) Training of milk production and market network improvement																			
		- Clean milk production (1 day training)		day	0	7,800	7,800	0	7,500	7,500	0	4,800	4,800	0	4,200	4,200	0	24,300	24,300		
		- O&M of UHT processing plant (3 day training)		day	0	135	135	0	165	165	0	135	135	0	105	105	0	540	540		
		- Establishment of effective milk collection (3 day training)		day	0	120	120	0	150	150	0	105	105	0	90	90	0	465	465		
		- Market planning etc. (3 day training)		day	0	120	120	0	150	150	0	120	120	0	105	105	0	495	495		
		Sub-Total			0	8,175	8,175	0	7,965	7,965	0	5,160	5,160	0	4,500	4,500	0	25,800	25,800		
		3-3 Livestock Service Quality and Accessibility Improvement Program (Milk)			28,232	16,190	44,422	32,612	23,348	55,960	17,800	10,709	28,509	15,657	8,641	24,298	94,301	58,888	153,188		
		1) Improvement of cold chain for semen transport																			
		- Liquid Nitrogen Tank	5	no	0	390	390	0	780	780	0	390	390	0	390	390	0	1,950	1,950		
		- Semen canister (Big)	5	no	0	650	650	0	1,300	1,300	0	650	650	0	650	650	0	3,250	3,250		
		- Semen canister (Middle)	12	no	0	156	156	0	312	312	0	234	234	0	234	234	0	936	936		
		- AI kits	100	set	0	499	499	0	749	749	0	416	416	0	416	416	0	2,080	2,080		
		Sub-Total			0	1,695	1,695	0	3,141	3,141	0	1,690	1,690	0	1,690	1,690	0	8,216	8,216		
		1) Livestock Training Program																			
		i) Training of trainers	2,055	time	0	1,740	1,740	0	2,400	2,400	0	1,065	1,065	0	960	960	0	6,165	6,165		
		ii) Training of input suppliers	500	time	0	188	188	0	233	233	0	180	180	0	150	150	0	750	750		
		Sub-Total			0	1,928	1,928	0	2,633	2,633	0	1,245	1,245	0	1,110	1,110	0	6,915	6,915		
		2) Livestock services program																			
		i) Livestock service center																			
		- Construction of livestock service center	60	place	12,567	12,567	25,135	17,574	17,574	35,148	7,774	7,774	15,549	5,841	5,841	11,681	43,757	43,757	87,513		
		- Pickup track	10	unit	12,532	0	12,532	12,532	0	12,532	8,354	0	8,354	8,354	0	8,354	41,772	0	41,772		
		- Motor cycle	42	no	3,133	0	3,133	2,506	0	2,506	1,671	0	1,671	1,462	0	1,462	8,772	0	8,772		
		Sub-Total			28,232	12,567	40,799	32,612	17,574	50,186	17,800	7,774	25,574	15,657	5,841	21,498	94,301	43,757	138,057		
		4. Consulting Services																			
		Incorporated in the Summary																			
		5. Administration Cost of PMU & PDOA																			
		Incorporated in the Summary																			
		GRAND TOTAL			2,382,019	1,392,792	3,774,812	1,686,271	1,158,815	2,845,086	1,319,357	924,424	2,243,781	691,942	501,759	1,193,701	6,079,590	3,977,790	10,057,380		
		check					3,774,812			2,845,086		2,243,781			1,193,701			10,057,380	check		

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COST BREAKDOWN for ZONE-01 (1/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
1.	Mobilization of PMU and PDOA													
		Incorporated in the Summary												
2.	Agricultural Crop Promotion Program					3,180,266		311,144		35,249		3,526,659		
2-1	Productivity Improvement Program (Agricultural Crop)					2,820,936		236,071		25,530		3,082,537		
		1) Rehabilitation of irrigation facility				2,259,079		0		0		2,259,079		
		i) Individual sub schemes	4	scheme		1,529,057						1,529,057		
		- Kurai Tank augmentation and Parangi aru development		LS		414,361						414,361		
		- Welimaruthamadu Irrigation scheme		LS		124,244						124,244		
		- Muthayankaddu Tank Lift Irrigation Scheme		LS		609,167						609,167		
		- Vavunikulam Tank - Right & Left Banks Lift Irrigation		LS		381,285						381,285		
		ii) Major tank rehabilitation	2	scheme		38,998						38,998		
		iii) Medium tank rehabilitation	26	scheme		418,310						418,310		
		iv) Minor tank rehabilitation	25	scheme		272,714						272,714		
		2) Agro well provision				553,107		111,520				664,627		
		- Construction of new agro wells	656	no		354,000						354,000		
		- Rehabilitation of agro wells	738	no		199,107						199,107		
		- Provision of pumps and accessories	1,394	set	80			111,520				111,520		
		3) Micro irrigation system						27,890				27,890		
		- Sprinkler irrigation for 500m2	50	set	329			16,445				16,445		
		- Drip irrigation system	184	ha	62			11,445				11,445		
		4) Enhancement of supply chain of quality seed and planting material				8,750		96,661		25,530		130,941		
		i) Provision of equipment & machinery for seed laboratory						1,002				1,002		
		- Tool equipment & machinery	2	set	501			1,002				1,002		
		ii) Provision of seed farms				8,750		9,200				17,950		
		- Vaunia farm	1	LS		7,750		6,500				14,250		
		- Kantale farm	1	LS		1,000		2,700				3,700		
		iii) Farmer traing program on quality self-seed & planting material producsion								840		840		
		- Quality self-seed production for OFCs	615	day	1.0					615		615		
		- Certified seed production for OFCs	205	day	1.0					205		205		
		- Quality planting material production for fruits	20	day	1.0					20		20		
		iv) Farmer training program on improvement of farm management etc.								24,690		24,690		
		- Farm management improvement	7,200	day	1.0					7,200		7,200		
		- OFCs production improvement	2,310	day	1.0					2,310		2,310		
		- Fruits production improvement	7,980	day	1.0					7,980		7,980		
		- Study tour	30	time	240					7,200		7,200		

COST BREAKDOWN for ZONE-01 (2/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		v) Supply of machinery, equipment and material						86,459				86,459		
		- Manual highland seeder for pulses	47	no.	45			2,115				2,115	5 Ac/day	
		- Highland weeder	47	no.	50			2,350				2,350		
		- Ridger	24	no.	10			240				240		
		- Ground nut decorticating machine	7	no.	10			70				70	15 kg/hr	
		- Pulse splitting machine	18	no.	180			3,240				3,240	30-40 kg/hr	
		- Pulse cleaning machine	18	no.	50			900				900		
		- Grinding machine for flour making	98	no.	62			6,076				6,076		
		- Barbed wire fence	416	km	88			36,608				36,608		
		- Electric fence (protect from elephants)	60	km	581			34,860				34,860		
2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					359,331		66,442		2,277		428,050		
		1) Established of proper interface and incubation												
		i) Establishment of collecting points						81,755		4,342	0	86,097		
		- Facilities for collecting point	26	place	3,144			81,755				81,755		
		- Equipment for collecting points	26	set	167			4,342				4,342		
		2) Improvement of farmers' storage facility						0		62,100	0	62,100		
		- Renovation of farmers' storage, onion	980	no	30			29,400				29,400		
		- Renovation of farmers' storage, chili	1,090	no	30			32,700				32,700		
		3) Upgrading of DEC and construction of collecting centre												
		i) Upgrading of DEC												
		Not subject												
		4) Rural road and farm access road rehabilitation						277,576		0	0	277,576		
		- Improvement of access roads to market	28.5	km	4,557			129,862				129,862		
		- Improvement of farm roads	246.6	km	599			147,713				147,713		
		5) Study tour						0		0	2,277	2,277		
		- To potential impact countries	1	LS	1,287						1,287	1,287	3 weeks x 9 person/4	
		- To active export countries	1	LS	990						990	990	3 weeks x 9 person/4	
2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					0		8,631		7,442		16,073		
		1) Training to extension officers						0		0	1,502	1,502		
		i) Project Awareness	390	day	0.75						293	293		
		ii) Farm management improvement	546	day	1.00						546	546		
		iii) Best Practices in OFC Cultivation	117	day	1.00						117	117		
		iii) Best Practices in Fruit Cultivation	117	day	1.00						117	117		
		iv) Farm Business Management	195	day	1.00						195	195		
		v) Exposure visits for experience sharing	117	day	2.00						234	234		
		2) Training facility improvement						0		8,631	0	8,631		
		- Motor cycle	39	no	209.00			8,151				8,151		
		- Personal computer	4	no	120			480				480		

COST BREAKDOWN for ZONE-01 (3/4)

1.0USS = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		3) Overseas training								5,940		5,940		
		- Overseas traing for OFCs	1	person	3,960					3,960		3,960	12 month	
		- Overseas traing for fruit	1	person	1,980					1,980		1,980	6 month	
3.	Livestock Product Promotion Program					35,755		177,255		35,143		248,153		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					10,620		94,496		25,040		130,156		
		1) Milk production improvement program												
		i) Feeding Project												
		- Individual Fodder Development(Unit) 5 years	531	plot	20	10,620						10,620		
		- Straw Baling Unit	27	unit	2,673			72,182				72,182		
		- Bio-mass Pelleting units	2	unit	5,347			10,694				10,694		
		- Grass choppers	14	unit	650			9,100				9,100		
		- Supply of seeds of pasture and legumes	9	pack	13			120				120	20 kg/pack	
		Sub-Total				10,620		92,096				102,716		
		ii) Breeding program												
		- Estrus Synchronization(head for 5 years)	6,000	time	2					12,000		12,000		
		- Artificial Insemination(times for 5 years)	25,600	time	1					12,800		12,800		
		Sub-Total						0		24,800		24,800		
		iii) Goat breeding program												
		- Goat breeding farm		place	11					0		0		
		- Breeding female goat		head	11					0		0		
		- Goat provision	800	head	3			2,400				2,400		
		Sub-Total						2,400				2,400		
		iv) Training for feeding improvement												
		- Production planning financial management etc.	40	day	1.50					60		60		
		- Awareness and utilization of crop residue	40	day	1.50					60		60		
		- Technical training on products from crop residue	40	day	1.50					60		60		
		- Improving nutritive quality of crop residue	40	day	1.50					60		60		
		Sub-Total								240		240		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Sca					0		65,399		8,175		73,574		
		1) Milk marketing program												
		- Issuing Milk Canister 40L	52	no	15			777				777		
		- Issuing Milk Canister 20L	650	no	7			4,544				4,544		
		- Mobile Milk sale	5	unit	520			2,600				2,600		
		- UHTmilk Processing	4	unit	13,367			53,468				53,468		
		- Chilling Tank 1500 liters	2	no	2,005			4,010				4,010		
		Sub-Total						0		65,399		65,399		
		2) Training of milk production and market network improvement												
		- Clean milk production (1 day training)	6,500	time	1.2					7,800		7,800		
		- O&M of UHT processing plant (3 day training)	45	time	3.0					135		135		
		- Establishment of effective milk collection (3 day training)	40	time	3.0					120		120		
		- Market planning etc. (3 day training)	40	time	3.0					120		120		

COST BREAKDOWN for ZONE-01 (4/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		Sub-Total								8,175	8,175			
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					25,135		17,360		1,928		44,422		
		1) Improvement of cold chain for semen transport												
		- Liquid Nitrogen Tank	1	no	390			390				390		
		- Semen canister (Big)	1	no	650			650				650		
		- Semen canister (Middle)	2	no	78			156				156		
		- AI kits	24	set	20.8			499				499		
		Sub-Total						1,695				1,695		
		1) Livestock Training Program												
		i) Training of trainers	580	time	3.0					1,740		1,740	See detail	
		ii) Training of input suppliers	125	time	1.5					188		188	See detail	
		Sub-Total								1,928		1,928		
		2) Livestock services program												
		i) Livestock service center												
		- Construction of livestock service center (100m2)	19	place	1,323	25,135						25,135	See detail	
		- Pickup track	3	unit	4,177			12,532				12,532	See detail	
		- Motor cycle	15	no	209			3,133				3,133	See detail	
		Sub-Total				25,135		15,665				40,799		
4.	Consulting Services (Tentative estimate)													
		Incorporated in the Summary												
5.	Administration Cost of PMU & PDOA (Tentative estimate)													
		Incorporated in the Summary												
GRAND TOTAL						3,216,021		488,399		70,391		3,774,812		

COST BREAKDOWN for ZONE-02 (1/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
1.	Mobilization of PMU and PIU													
		Incorporated in the Summary												
2.	Agricultural Crop Promotion Program					1,897,356		574,924		48,696		2,520,975		
2-1	Productivity Improvement Program (Agricultural Crop)					1,460,377		428,349		31,651		1,920,377		
		1) Rehabilitation of irrigation facility				787,188		0		0		787,188		
		i) Individual sub schemes	1	scheme										
		- Mahaweli System H scheme		LS		375,827						375,827		
		ii) Major tank rehabilitation	2	scheme		80,805						80,805		
		iii) Medium tank rehabilitation	3	scheme		46,241						46,241		
		iv) Minor tank rehabilitation	22	scheme		284,315						284,315		
		2) Agro well provision				673,188		121,520				794,708		
		- Construction of new agro wells	717	no		431,688						431,688		
		- Rehabilitation of agro wells	802	no		241,500						241,500		
		- Provision of pumps and accessories	1,519	set	80			121,520				121,520		
		3) Micro irrigation system						57,746				57,746		
		- Sprinkler irrigation for 500m2	50	set	329			16,445				16,445		
		- Drip irrigation system	664	ha	62			41,301				41,301		
		4) Enhancement of supply chain of quality seed and planting material						249,083		31,651		280,734		
		i) Provision of equipment & machinery for seed laboratory						501				501		
		- Tool equipment & machinery	1	set	501			501				501		
		ii) Provision of seed farms												
		Not subject												
		iii) Farmer traing program on quality self-seed & planting material production								2,191		2,191		
		- Quality self-seed production for OFCs	1,592	day	1.0					1,592		1,592		
		- Certified seed production for OFCs	531	day	1.0					531		531		
		- Quality planting material production for fruits	68	day	1.0					68		68		
		iv) Farmer training program on improvement of farm management etc.								29,460		29,460		
		- Farm management improvement	8,640	day	1.0					8,640		8,640		
		- OFCs production improvement	2,940	day	1.0					2,940		2,940		
		- Fruits production improvement	9,240	day	1.0					9,240		9,240		
		- Study tour	36	time	240					8,640		8,640		
		v) Supply of machinery, equipment ans material						248,582				248,582		
		- Manual highland seeder for pulses	288	no.	45			12,960				12,960		5 Ac/day
		- Highland weeder	288	no.	50			14,400				14,400		
		- Ridger	144	no.	10			1,440				1,440		

COST BREAKDOWN for ZONE-02 (2/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		- Ground nut decorticating machine	40	no.	10			400				400		15 kg/hr
		- Pulse splitting machine	104	no.	180			18,720				18,720		30-40 kg/hr
		- Pulse cleaning machine	104	no.	50			5,200				5,200		
		- Grinding machine for flour making	231	no.	62			14,322				14,322		
		- Barbed wire fence	870	km	88			76,560				76,560		
		- Electric fence (protect from elephants)	180	km	581			104,580				104,580		
		2-2 Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)						436,979				129,940		
		1) Established of proper interface and incubation												
		i) Establishment of collecting points						66,949			0		70,289	
		- Facilities for collecting point	20	place	3,347			66,949					66,949	
		- Equipment for collecting points	20	set	167							3,340		
		2) Improvement of farmers' storage facility						0			0		126,600	
		- Renovation of farmers' storage, onion	1,070	no	30								32,100	
		- Renovation of farmers' storage, chili	3,150	no	30								94,500	
		3) Upgrading of DEC and construction of collecting centre						86,000			0		86,000	
		i) Upgrading of DEC						86,000			0		86,000	
		- Dambulla at DA Matale	1	LS				64,000					64,000	Cold storage etc.
		- Thambuttegama at Anuradapura	1	LS				22,000					22,000	Canopy, road etc
		4) Rural road and farm access road rehabilitation						284,030			0		284,030	
		- Improvement of access roads to market	48.5	km	3,834			185,949			0		185,949	
		- Improvement of farm roads	194.6	km	504			98,081					98,081	
		5) Study tour						0			0		2,277	
		- To potential impact countries	1	LS	1,287						1,287		1,287	3 weeks x 9 person/4
		- To active export countries	1	LS	990						990		990	3 weeks x 9 person/4
		2-3 Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)						0				16,635		
		1) Training to extension officers										0	2,888	2,888
		i) Project Awareness	750	day	0.75								563	563
		ii) Farm management improvement	1,050	day	1.00						1,050		1,050	1,050
		iii) Best Practices in OFC Cultivation	225	day	1.00						225		225	225
		iv) Farm Business Management	375	day	1.00						375		375	375
		v) Exposure visits for experience sharing	225	day	2.00						450		450	450
		2) Training facility improvement						0					16,635	
		- Motor cycle	75	no	209.00								15,675	15,675
		- Personal computer	8	no	120								960	960
		3) Overseas training											11,880	11,880
		- Overseas training for OFCs	2	person	3,960						7,920		7,920	12 month
		- Overseas training for fruit	2	person	1,980						3,960		3,960	6 month

COST BREAKDOWN for ZONE-02 (3/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
3.	Livestock Product Promotion Program					58,548		190,106		75,958		324,612		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					23,400		114,397		65,360		203,157		
	1) Milk production improvement program													
	i) Feeding Project													
	- Individual Fodder Development (Unit) 5 years	1,170	plot	20	23,400							23,400		
	- Straw Bailing Unit	28	unit	2,673				74,856				74,856		
	- Bio-mass Pelleting units	4	unit	5,347				21,387				21,387		
	- Grass choppers	22	unit	650				14,300				14,300		
	- Supply of seeds of pasture and legumes	19	pack	13				254				254	20 kg/pack	
	Sub-Total					23,400		110,797				134,197		
	ii) Breeding program													
	- Estrus Synchronization(head for 5years)	16,000	time	2						32,000		32,000		
	- Artificial Insemination(times for 5 years)	66,000	time	1						33,000		33,000		
	Sub-Total							0		65,000		65,000		
	iii) Goat breeding program													
	- Goat breeding farm		place	11						0		0		
	- Breeding female goat		head	11						0		0		
	- Goat provision	1,200	head	3				3,600				3,600		
	Sub-Total							3,600				3,600		
	iv) Training for feeding improvement													
	- Production planning,financial management etc.	60	day	1.50						90		90		
	- Awareness and utilization of crop residue	60	day	1.50						90		90		
	- Technical training on products from crop residue	60	day	1.50						90		90		
	- Improving nutritive quality of crop residue	60	day	1.50						90		90		
										360		360		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		57,530		7,965		65,495		
	1) Milk marketing program													
	- Issuing Milk Canister 40L	58	no	15				867				867		
	- Issuing Milk Canister 20L	850	no	7				5,942				5,942		
	- Mobile Milk sale	5	unit	520				2,600				2,600		
	- UHTmilk Processing	3	unit	13,367				40,101				40,101		
	- Chilling Tank 1500 liters	4	no	2,005				8,020				8,020		
	Sub-Total							0		57,530		57,530		
	2) Training of milk production and market network improvement													
	- Clean milk production (1 day training)	6,250	time	1.2						7,500		7,500		
	- O&M of UHT processing plant (3 day training)	55	time	3.0						165		165		
	- Establishment of effective milk collection (3 day training)	50	time	3.0						150		150		
	- Market planning etc. (3 day training)	50	time	3.0						150		150		
	Sub-Total									7,965		7,965		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					35,148		18,179		2,633		55,960		
	1) Improvement of cold chain for semen transport													
	- Liquid Nitrogen Tank	2	no	390				780				780		
	- Semen canister (Big)	2	no	650				1,300				1,300		

COST BREAKDOWN for ZONE-02 (4/4)

1.0USS = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks	
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total			
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		
		- Semen canister (Middle)	4	no	78			312				312			
		- AI kits	36	set	20.8			749				749			
		Sub-Total						3,141				3,141			
		2) Livestock Training Program													
		i) Training of trainers	800	time	3.0					2,400		2,400			
		ii) Training of input suppliers	155	time	1.5					233		233			
		Sub-Total								2,633		2,633			
		3) Livestock services program													
		i) Livestock service center													
		- Construction of livestock service center (100m2)	21	place	1,674	35,148						35,148			
		- Pickup track	3	unit	4,177			12,532				12,532			
		- Motor cycle	12	no	209			2,506				2,506			
		Sub-Total				35,148		15,038				50,186			
4.	Consulting Services (Tentative estimate)														
		Incorporated in the Summary													
5.	Administration Cost of PMU & PDOA (Tentative estimate)														
		Incorporated in the Summary													
GRAND TOTAL								1,955,904		765,030		124,653		2,845,587	
												2,845,587		check	

Source : JICA Survey Team

COST BREAKDOWN for ZONE-03 (1/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
1.	Mobilization of PMU and PIU													
		Incorporated in the Summary												
												1,945,790		for checking
2.	Agricultural Crop Promotion Program					1,465,921		412,470		67,398		1,945,790		
2-1	Productivity Improvement Program (Agricultural Crop)					1,273,642		376,220		57,795		1,707,657		
		1) Rehabilitation of irrigation facility				766,765						766,765		
		i) Individual sub schemes	2	scheme		512,564						512,564		
		- Ingimitya scheme		LS		412,357						412,357		
		- Neelabemma Scheme (Phase II)		LS		100,207						100,207		
		ii) Major tank rehabilitation	1	scheme		17,633						17,633		
		iii) Medium tank rehabilitation	1	scheme		19,819						19,819		
		iv) Minor tank rehabilitation	16	scheme		216,749						216,749		
		2) Agro well provision				491,377		91,360				582,737		
		- Construction of new agro wells	537	no		314,317						314,317		
		- Rehabilitation of agro wells	605	no		177,060						177,060		
		- Provision of pumps and accessories	1,142	set	80			91,360				91,360		
		3) Micro irrigation system						68,195				68,195		
		- Sprinkler irrigation for 500m2	50	set	329			16,445				16,445		
		- Drip irrigation system	832	ha	62			51,750				51,750		
		4) Enhancement of supply chain of quality seed and planting material				15,500		216,665		57,795		289,960		
		i) Provision of equipment & machinery for seed laboratory						501				501		
		- Tool equipment & machinery	1	set	501			501				501		
		ii) Provision of seed farms				15,500		5,250				20,750		
		- Wariyapola seed farm	1	LS		7,500		2,500				10,000		
		- Galgamuwa seed farm	1	LS		8,000		2,750				10,750		
		iii) Farmer traing program on quality self-seed & planting material producsion								375		375		
		- Quality self-seed production for OFCs	200	day	1.0					200		200		
		- Certified seed production for OFCs	67	day	1.0					67		67		
		- Quality planting material production for fruits	108	day	1.0					108		108		
		iv) Farmer training program on improvement of farm management etc.								57,420		57,420		
		- Farm management improvement	18,000	day	1.0					18,000		18,000		
		- OFCs production improvement	10,080	day	1.0					10,080		10,080		
		- Fruits production improvement	11,340	day	1.0					11,340		11,340		
		- Study tour	75	time	240					18,000		18,000		

COST BREAKDOWN for ZONE-03 (2/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		v) Supply of machinery, equipment and material						210,914				210,914		
		- Manual highland seeder for pulses	28	no.	45			1,260				1,260	5 Ac/day	
		- Highland weeder	28	no.	50			1,400				1,400		
		- Ridger	14	no.	10			140				140		
		- Ground nut decorticating machine	4	no.	10			40				40	15 kg/hr	
		- Pulse splitting machine	10	no.	180			1,800				1,800	30-40 kg/hr	
		- Pulse cleaning machine	10	no.	50			500				500		
		- Grinding machine for flour making	35	no.	62			2,170				2,170		
		- Barbed wire fence	333	km	88			29,304				29,304		
		- Electric fence (protect from elephants)	300	km	581			174,300				174,300		
2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					192,280		28,246		2,277		222,803		
		1) Established of proper interface and incubation				118,169		6,346		0		124,515		
		i) Establishment of collecting points				118,169		6,346		0		124,515		
		- Facilities for collecting point	38	place	3,110	118,169						118,169		
		- Equipment for collecting points	38	set	167			6,346				6,346		
		2) Improvement of farmers' storage facility				0		21,900		0		21,900		
		- Renovation of farmers' storage, onion	240	no	30			7,200				7,200		
		- Renovation of farmers' storage, chili	490	no	30			14,700				14,700		
		3) Upgrading of DEC and construction of collecting centre												
		i) Upgrading of DEC												
		Not subject												
		4) Rural road and farm access road rehabilitation				74,111		0		0		74,111		
		- Improvement of access roads to market	6.6	km	4,506	29,741						29,741		
		- Improvement of farm roads	74.9	km	592	44,370						44,370		
		5) Study tour				0		0		2,277		2,277		
		- To potential impact countries	1	LS	1,287					1,287		1,287	3 weeks x 9 person/4	
		- To active export countries	1	LS	990					990		990	3 weeks x 9 person/4	
2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					0		8,004		7,326		15,330		
		1) Training to extension officers				0		0		1,386		1,386		
		i) Project Awareness	360	day	0.75					270		270		
		ii) Farm management improvement	504	day	1.00					504		504		
		iii) Best Practices in OFC Cultivation	108	day	1.00					108		108		
		iii) Best Practices in Fruit Cultivation	108	day	1.00					108		108		
		iv) Farm Business Management	180	day	1.00					180		180		
		v) Exposure visits for experience sharing	108	day	2.00					216		216		
		2) Training facility improvement				0		8,004		0		8,004		
		- Motor cycle	36	no	209.00			7,524				7,524		
		- Personal computer	4	no	120			480				480		

COST BREAKDOWN for ZONE-03 (3/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks	
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total			
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		
		3) Overseas training													
		- Overseas traing for OFCs	1	person	3,960							5,940		5,940	12 month
		- Overseas traing for fruit	1	person	1,980							1,980		1,980	6 month
3.	Livestock Product Promotion Program					49,549		127,377			120,565		297,490		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					34,000		88,126			114,160		236,286		
	1) Milk production improvement program														
	i) Feeding Project														
	- Individual Fodder Development (Unit) 5 years	1,200	plot	20	24,000								24,000		
	- Straw Baling Unit	25	unit	2,673				66,835					66,835		
	- Bio-mass Pelleting units	2	unit	5,347				10,694					10,694		
	- Grass choppers	12	unit	650				7,800					7,800		
	- Supply of seeds of pasture and legumes	18	pack	13				241					241	20 kg/pack	
	Sub-Total					24,000		85,570					109,570		
	ii) Breeding program														
	- Estrus Synchronization(head for 5years)	16,000	time	2						32,000			32,000		
	- Artificial Insemination(times for 5 years)	66,800	time	1						33,400			33,400		
	Sub-Total							0		65,400			65,400		
	iii) Goat breeding program														
	- Goat breeding farm Thelahara	3,800	place	11						41,800			41,800		
	- Breeding female goat Terahara	600	head	11						6,600			6,600		
	- Provision & rehabilitation of facility for Thelahara	1	LS	10,000	10,000								10,000		
	- Goat provision	852	head	3				2,556					2,556		
	Sub-Total					10,000		2,556		48,400			60,956		
	iv) Training for feeding improvement														
	- Production planning,financial management etc.	60	day	1.50						90			90		
	- Awareness and utilization of crop residue	60	day	1.50						90			90		
	- Technical training on products from crop residue	60	day	1.50						90			90		
	- Improving nutritive quality of crop rsidue	60	day	1.50						90			90		
	Sub-Total									360			360		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		27,536			5,160		32,696		
	1) Milk marketing program														
	- Issuing Milk Canister 40L	50	no	15				748					748		
	- Issuing Milk Canister 20L	900	no	7				6,291					6,291		
	- Mobile Milk sale	6	unit	520				3,120					3,120		
	- UHTmilk Processing	1	unit	13,367				13,367					13,367		
	- Chilling Tank 1500 liters	2	no	2,005				4,010					4,010		
	Sub-Total					0		27,536					27,536		
	2) Training of milk production and market network improvement														
	- Clean milk production (1 day training)	4,000	time	1.2						4,800			4,800		
	- O&M of UHT processing plant (3 day training)	45	time	3.0						135			135		
	- Establishment of effective milk collection (3 day training)	35	time	3.0						105			105		
	- Market planning etc. (3 day training)	40	time	3.0						120			120		
	Sub-Total									5,160			5,160		

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COST BREAKDOWN for ZONE-03 (4/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					15,549		11,715		1,245		28,509		
	1) Improvement of cold chain for semen transport													
	- Liquid Nitrogen Tank	1	no	390				390				390		
	- Semen canister (Big)	1	no	650				650				650		
	- Semen canister (Middle)	3	no	78				234				234		
	- AI kits	20	set	20.8				416				416		
	Sub-Total							1,690				1,690		
	2) Livestock Training Program													
	i) Training of trainers	355	time	3.0						1,065		1,065		
	ii) Training of input suppliers	120	time	1.5						180		180		
	Sub-Total									1,245		1,245		
	3) Livestock services program													
	i) Livestock service center													
	- Construction of livestock service center (100m2)	10	place	1,555	15,549							15,549		
	- Pickup track	2	unit	4,177				8,354				8,354		
	- Motor cycle	8	no	209				1,671				1,671		
	Sub-Total				15,549			10,025				25,574		
4.	Consulting Services (Tentative estimate)													
	Incorporated in the Summary													
5.	Administration Cost of PMU & PDOA (Tentative estimate)													
	Incorporated in the Summary													
GRAND TOTAL						1,515,470		539,847		187,963		2,243,280		
												2,243,280	check	

Source : JICA Survey Team

COST BREAKDOWN for ZONE-04 (1/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks	
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total			
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		
1.	Mobilization of PMU and PIU														
		Incorporated in the Summary													
2.	Agricultural Crop Promotion Program					709,045		275,629		37,209		1,021,883			for checking
2-1	Productivity Improvement Program (Agricultural Crop)					601,369		235,171		27,837		864,376			
		1) Rehabilitation of irrigation facility				72,464						72,464			
		i) Individual sub schemes	0	scheme											
		ii) Major tank rehabilitation	0	scheme								0			
		iii) Medium tank rehabilitation	2	scheme		4,415						4,415			
		iv) Minor tank rehabilitation	8	scheme		68,049						68,049			
		2) Agro well provision				522,404		129,280				651,684			
		- Construction of new agro wells	760	no		334,198						334,198			
		- Rehabilitation of agro wells	856	no		188,206						188,206			
		- Provision of pumps and accessories	1,616	set	80			129,280				129,280			
		3) Micro irrigation system						51,775				51,775			
		- Sprinkler irrigation for 500m2	50	set	329			16,445				16,445			
		- Drip irrigation system	568	ha	62			35,330				35,330			
		4) Enhancement of supply chain of quality seed and planting material				6,500		54,116		27,837		88,453			
		i) Provision of equipment & machinery for seed laboratory						501				501			
		- Tool equipment & machinery	1	set	501			501				501			
		ii) Provision of seed farms				6,500		4,750				11,250			
		- Okkampitiya farm	1	LS		6,500		4,750				11,250			see detail
		iii) Farmer traing program on quality self-seed & planting material production								297		297			
		- Quality self-seed production for OFCs	179	day	1.0					179		179			
		- Certified seed production for OFCs	60	day	1.0					60		60			
		- Quality planting material production for fruits	58	day	1.0					58		58			
		iv) Farmer training program on improvement of farm management etc.								27,540		27,540			
		- Farm management improvement	9,360	day	1.0					9,360		9,360			
		- OFCs production improvement	7,560	day	1.0					7,560		7,560			
		- Fruits production improvement	1,260	day	1.0					1,260		1,260			
		- Study tour	39	time	240					9,360		9,360			
		v) Supply of machinery, equipment ans material						48,865				48,865			
		- Manual highland seeder for pulses	5	no.	45			225				225			5 Ac/day
		- Highland weeder	5	no.	50			250				250			
		- Ridger	2	no.	10			20				20			
		- Ground nut decorticating machine	1	no.	10			10				10			15 kg/hr

COST BREAKDOWN for ZONE-04 (2/4)

1.0USS = 79 Yen = 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		- Pulse splitting machine	2	no.	180			360				360		30-40 kg/hr
		- Pulse cleaning machine	2	no.	50			100				100		
		- Grinding machine for flour making	33	no.	62			2,046				2,046		
		- Barbed wire fence	323	km	88			28,424				28,424		
		- Electric fence (protect from elephants)	30	km	581			17,430				17,430		
	2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)				75,677		24,708		2,277		102,662		
		1) Established of proper interface and incubation				56,069		4,008		0		60,077		
		i) Establishment of collecting points				56,069		4,008		0		60,077		
		- Facilities for collecting point	24	place	2,336	56,069						56,069		
		- Equipment for collecting points	24	set	167			4,008				4,008		
		2) Improvement of farmers' storage facility				0		20,700		0		20,700		
		- Renovation of farmers' storage, onion	300	no	30			9,000				9,000		
		- Renovation of farmers' storage, chili	390	no	30			11,700				11,700		
		3) Upgrading of DEC and construction of collecting centre												
		i) Upgrading of DEC												
		Not subject												
		4) Rural road and farm access road rehabilitation					19,607	0		0		19,607		
		- Improvement of access roads to market	2.4	km	3,385		8,125					8,125		
		- Improvement of farm roads	25.8	km	445		11,482					11,482		
		5) Study tour					0	0		2,277		2,277		
		- To potential impact countries	1	LS	1,287					1,287		1,287		3 weeks x 9 person/4
		- To active export countries	1	LS	990					990		990		3 weeks x 9 person/4
	2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)				32,000		15,750		7,095		54,845		
		1) Training to extension officers						0		1,155		1,155		
		i) Project Awareness	300	day	0.75					225		225		
		ii) Farm management improvement	420	day	1.00					420		420		
		iii) Best Practices in OFC Cultivation	90	day	1.00					90		90		
		iv) Best Practices in Fruit Cultivation	90	day	1.00					90		90		
		v) Farm Business Management	150	day	1.00					150		150		
		vi) Exposure visits for experience sharing	90	day	2.00					180		180		
		2) Training facility improvement				32,000		15,750		0		47,750		
		- DATC Bibile at Moneragala	1	LS		5,000		5,000				10,000		
		- ISTC Bindunuwewa at Badulla	1	LS		27,000		4,000				31,000		
		- Motor cycle	30	no	209.00			6,270				6,270		
		- Personal computer	4	no	120			480				480		

COST BREAKDOWN for ZONE-04 (3/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks								
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total										
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible									
		3) Overseas training																				
		- Overseas traing for OFCs	1	person	3,960							5,940									12 month	
		- Overseas traing for fruit	1	person	1,980							3,960									6 month	
3.	Livestock Product Promotion Program					28,681		96,487			46,650			171,818								
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					17,000		73,949			41,040			131,989								
		1) Milk production improvement program												131,989								
		i) Feeding Project																				
		- Individual Fodder Development (micro silage)	850	plot	20	17,000								17,000								
		- Straw Bailing Unit	20	unit	2,673									53,468								
		- Bio-mass Pelleting units	2	unit	5,347									10,694								
		- Grass choppers	12	unit	650									7,800								
		- Supply of seeds of pasture and legumes	14	pack	13									187							20 kg/pack	
		Sub-Total												17,000								89,149
		ii) Breeding program																				
		- Estrus Synchronization(head for 5 years)	10,000	time	2									20,000								20,000
		- Artificial Insemination(times for 5 years)	41,600	time	1									20,800								20,800
		Sub-Total												0								40,800
		iii) Goad breeding program																				
		- Goat breeding farm		place	11									0								0
		- Breeding female goat		head	11									0								0
		- Goat provision	600	head	3									1,800								1,800
		Sub-Total												1,800								1,800
		iv) Training for feeding improvement																				
		- Production planning,financial management etc.	40	day	1.50									60								60
		- Awareness and utilization of crop residue	40	day	1.50									60								60
		- Technical training on products from crop residue	40	day	1.50									60								60
		- Improving nutritive quality of crop rsidue	40	day	1.50									60								60
		Sub-Total												240								240
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		11,032			4,500			15,532								
		1) Milk marketing program																				
		- Issuing Milk Canister 40L	50	no	15									748								748
		- Issuing Milk Canister 20L	600	no	7									4,194								4,194
		- Mobile Milk sale	4	unit	520									2,080								2,080
		- UHTmilk Processing	0	unit	13,367									0								0
		- Chilling Tank 1500 liters	2	no	2,005									4,010								4,010
		Sub-Total												0								11,032
		2) Training of milk production and market network improvement																				
		- Clean milk production (1 day training)	3,500	time	1.2									4,200								4,200
		- O&M of UHT processing plant (3 day training)	35	time	3.0									105								105
		- Establishment of effective milk collection (3 day training)	30	time	3.0									90								90
		- Market planning etc. (3 day training)	35	time	3.0									105								105
		Sub-Total												4,500								4,500

COST BREAKDOWN for ZONE-04 (4/4)

1,0US\$ = 79 Yen = 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					11,681		11,506		1,110		24,298		
	1) Improvement of cold chain for semen transport													
	- Liquid Nitrogen Tank	1	no	390				390				390		
	- Semen canister (Big)	1	no	650				650				650		
	- Semen canister (Middle)	3	no	78				234				234		
	- AI kits	20	set	20.8				416				416		
	Sub-Total							1,690				1,690		
	2) Livestock Training Program													
	i) Training of trainers	320	time	3.0					960			960		
	ii) Training of input suppliers	100	time	1.5					150			150		
	Sub-Total								1,110			1,110		
	3) Livestock services program													
	i) Livestock service center													
	- Construction of livestock service center (100m2)	10	place	1,168	11,681							11,681		
	- Pickup truck	2	unit	4,177				8,354				8,354		
	- Motor cycle	7	no	209				1,462				1,462		
	Sub-Total				11,681		9,816					21,498		
4.	Consulting Services (Tentative estimate)													
	Incorporated in the Summary													
5.	Administration Cost of PMU & PDOA (Tentative estimate)													
	Incorporated in the Summary													
GRAND TOTAL						737,726		372,116		83,859		1,193,701		
												1,193,701	for checking	

Source : JICA Survey Team

COST BREAKDOWN for PROGRAMS by PROVINCE (1/4)

1.0USS = 79 Yen = 132 Rs.

2.2.2 Cost Estimate by Provinces

C-31

No.	Program	Inputs	Unit	Amount in Rs.1,000														Remarks		
				EP		NP		NCP		NWP		UP		Mahaweli System H		Total				
				Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount			
1.	Mobilization of PMU and PDOA																			
	Incorporated in the Summary																		9,015,307	for checking
2.	Activities for Agricultural Crop				1,202,438		2,728,875		1,470,392		1,945,532		1,021,124		646,947				9,015,307	
2-1	Productivity Improvement Program (Agricultural Crop)				957,923		2,469,530		1,070,369		1,708,158		864,376		504,591				7,574,947	
	1) Rehabilitation of irrigation facility				340,672		2,050,159		279,610		766,765		72,464		375,827				3,885,496	
	i) Individual sub schemes	scheme				4	1,529,057				2	512,564		1	375,827		7	2,417,448		
	- Kurai Tank augmentation and Parangi aru	scheme				1	414,361										1	414,361		
	- Welmaruthamadu Irrigation scheme	scheme				1	124,244										1	124,244		
	- Muthayankaddu Tank Lift Irrigation Scheme	scheme				1	609,167										1	609,167		
	- Vavunikulam Tank - Right & Left Banks Lift	scheme				1	381,285										1	381,285		
	- Mahaweli System H scheme	scheme											1	375,827		0	375,827			
	- Ingimitya scheme	scheme								1	412,357					1	412,357			
	- Neelabemma Scheme (Existing)	scheme								1	100,207					1	100,207			
	ii) Major tank rehabilitation	scheme	3	85,465	0	0	1	34,338	1	17,633	0	0	0	0	0	5	137,436			
	iii) Medium tank rehabilitation	scheme	7	91,665	21	359,808	1	13,078	1	19,819	2	4,415	0	0	0	32	488,785			
	iv) Minor tank rehabilitation	scheme	16	163,542	14	161,294	17	232,194	16	216,749	8	68,049	0	0	0	71	841,827			
	2) Agro well provision			489,646		318,438		605,862		582,737		651,684		45,390				2,693,757		
	- Construction of new agro wells	nos	517	257,466	291	172,230	525	330,789	537	314,317	760	334,198	40	25,203	2,670			1,434,204		
	- Rehabilitation of agro wells	nos	580	144,420	327	96,768	590	185,872	605	177,060	856	188,206	43	13,547	3,001			805,873		
	- Provision of pumps and accessories	set	1,097	87,760	618	49,440	1,115	89,200	1,142	91,360	1,616	129,280	83	6,640	5,671			453,680		
	3) Micro irrigation system			22,227		17,202		32,371		68,195		51,775		13,837				205,606		
	- Sprinkler irrigation for 500m2	set	29	9,538	31	10,196	28	9,209	50	16,445	50	16,445	12	3,947	200			65,780		
	- Drip irrigation system	ha	204	12,689	113	7,006	372	23,161	832	51,750	568	35,330	159	9,890	2,248			139,826	0	
	4) Enhancement of supply chain of quality seed and planting material			105,378		83,731		152,528		290,461		88,453		69,538				790,088		
	i) Provision of equipment & machinery for seed laboratory			501		501		0		1,002		501		0				2,505		
	- Tool equipment & machinery	set	1	501	1	501	0	0	2	1,002	1	501	0	0	5			2,505		
	ii) Provision of seed farms			3,700		14,250		0		20,750		11,250		0				49,950		
	- Vaunia farm	place			1	14,250									1			14,250		
	- Kantale farm	place	1	3,700											1			3,700		
	- Wariyapola seed farm	place							1	10,000					1			10,000		
	- Galgamuwa seed farm	place							1	10,750					1			10,750		
	- Okkampitiya farm	place									1	11,250			1			11,250		
	iii) Farmer training program on quality self-seed & planting material production			900		517		923		375		297		692				3,703		
	- Quality self-seed production for OFCs	day	655	655	378	378	670	670	200	200	179	179	503	503	2,586			2,586		
	- Certified seed production for OFCs	day	219	219	126	126	224	224	67	67	60	60	168	168	863			863		
	- Quality planting material production for fruits	day	26	26	12	12	29	29	108	108	58	58	21	21	254			254		
	iv) Farmer training program on improvement of farm management etc.			17,248		15,191		12,405		57,420		27,540		9,306				139,110		
	- Farm management improvement	day	5,043	5,043	4,431	4,431	3,638	3,638	18,000	18,000	9,360	9,360	2,728	2,728	43,200			43,200		
	- OFCs production improvement	day	1,662	1,662	1,422	1,422	1,238	1,238	10,080	10,080	7,560	7,560	928	928	22,890			22,890		
	- Fruits production improvement	day	5,500	5,500	4,908	4,908	3,891	3,891	11,340	11,340	1,260	1,260	2,921	2,921	29,820			29,820		
	- Study tour	time	21	5,043	18	4,431	15	3,638	75	18,000	39	9,360	11	2,728	180			43,200		
	v) Supply of machinery, equipment and material			83,029		53,272		139,200		210,914		48,865		59,540				594,820		
	- Manual highland seeder for pulses	no.	76	3,420	29	1,305	161	7,245	28	1,260	5	225	69	3,105	368			16,560		
	- Highland weeder	no.	76	3,800	29	1,450	161	8,050	28	1,400	5	250	69	3,450	368			18,400		

COST BREAKDOWN for PROGRAMS by PROVINCE (2/4)

No.	Program	Inputs	Unit	Amount in Rs.1,000												Remarks		
				EP		NP		NCP		NWP		UP		Mahaweli System H			Total	
				Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount		Q'ty	Total Amount
		- Ridger	no.	38	380	14	140	81	810	14	140	2	20	35	350	184	1,840	
		- Ground nut decorticating machine	no.	11	110	4	40	22	220	4	40	1	10	10	100	52	520	
		- Pulse splitting machine	no.	28	5,040	11	1,980	58	10,440	10	1,800	2	360	25	4,500	134	24,120	
		- Pulse cleaning machine	no.	28	1,400	11	550	58	2,900	10	500	2	100	25	1,250	134	6,700	
		- Grinding machine for flour making	no.	84	5,208	61	3,782	129	7,998	35	2,170	33	2,046	55	3,410	397	24,614	
		- Barbed wire fence	km	334	29,392	256	22,528	487	42,856	333	29,304	323	28,424	209	18,392	1,942	170,896	
		- Electric fence (protect from elephants)	km	59	34,279	37	21,497	101	58,681	300	174,300	30	17,430	43	24,983	570	331,170	
	2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)			230,790		247,105		383,208		222,044		101,903		137,661		1,322,710	
		1) Established of proper interface and incubation																
		i) Establishment of collecting points			46,360		53,795		38,659		124,515		60,077		17,572		340,978	0
		- Facilities for collecting point	place	14	44,022	16	51,123	11	36,822	38	118,169	24	56,069	5	16,737	108	322,942	adjusted
		- Equipment for collecting points	set	14	2,338	16	2,672	11	1,837	38	6,346	24	4,008	5	835	108	18,036	
		2) Improvement of farmers' storage facility			49,200		38,220		70,890		21,900		20,700		30,390		231,300	
		- Renovation of farmers' storage, onion	no	591	17,730	603	18,090	599	17,970	240	7,200	300	9,000	257	7,710	2,590	77,700	
		- Renovation of farmers' storage, chili	no	1,049	31,470	671	20,130	1,764	52,920	490	14,700	390	11,700	756	22,680	5,120	153,600	
		3) Upgrading of DEC and construction of collecting centre																
		i) Upgrading of DEC			0		0		86,000		0		0		0		86,000	
		- Dambulla at DA Matala						1	64,000							1	64,000	
		- Thambuttegama at Anuradapura						1	22,000							1	22,000	
		4) Rural road and farm access road rehabilitation			133,713		153,572		186,140		74,111		19,607		88,181		655,324	0
		- Improvement of access roads to market	km	21.0	70,065	17.0	67,013	27.0	120,523	6.6	29,741	2.4	8,125	12.0	58,210	86.0	353,678	adjusted
		- Improvement of farm roads	km	134.0	63,647	151.0	86,559	109.0	65,617	74.9	44,370	25.8	11,482	47.0	29,971	541.7	301,646	adjusted
		5) Study tour			1,518		1,518		1,518		1,518		1,518		1,518		9,108	
		- To potential impact countries	LS	1	858	1	858	1	858	1	858	1	858	1	858	1	5,148	
		- To active export countries	LS	1	660	1	660	1	660	1	660	1	660	1	660	1	3,960	
	2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural C			13,725		12,240		16,815		15,330		54,845		4,695		117,650	
		1) Training to extension officers			1,155		924		1,617		1,386		1,155		693		6,930	
		i) Project Awareness	day	300	225	240	180	420	315	360	270	300	225	180	135	1,800	1,350	
		ii) Farm management improvement	day	420	420	336	336	588	588	504	504	420	420	252	252	2,520	2,520	
		iii) Best Practices in OFC Cultivation	day	90	90	72	72	126	126	108	108	90	90	54	54	540	540	
		iv) Best Practices in Fruit Cultivation	day	90	90	72	72	126	126	108	108	90	90	54	54	540	540	
		v) Farm Business Management	day	150	150	120	120	210	210	180	180	150	150	90	90	900	900	
		vi) Exposure visits for experience sharing	day	90	180	72	144	126	252	108	216	90	180	54	108	540	1,080	
		2) Training facility improvement			6,630		5,376		9,258		8,004		47,750		4,002		81,020	
		- DATC Bibile at Moneragala	place									1	10,000			1	10,000	
		- ISTC Bindunuwewa at Badulla	place									1	31,000			1	31,000	
		- Motor cycle	no	30	6,270	24	5,016	42	8,778	36	7,524	30	6,270	18	3,762	180	37,620	
		- Personal computer	no	3	360	3	360	4	480	4	480	4	480	2	240	20	2,400	
		3) Overseas training			5,940		5,940		5,940		5,940		5,940		0		29,700	
		- Overseas traing for OFCs	person	1	3,960	1	3,960	1	3,960	1	3,960	1	3,960	0	0	5	19,800	
		- Overseas traing for fruit	person	1	1,980	1	1,980	1	1,980	1	1,980	1	1,980	0	0	5	9,900	

COST BREAKDOWN for PROGRAMS by PROVINCE (3/4)

No.	Program	Inputs	Unit	Amount in Rs.1,000												Remarks		
				EP		NP		NCP		NWP		UP		Mahaweli System H			Total	
				Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount		Q'ty	Total Amount
3.	Livestock Product Promotion Program			167,303		194,909		128,357		297,628		171,661		82,215		1,042,073		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)			71,689		118,090		82,022		236,286		131,989		61,512		701,588		
	1) Milk production improvement program																	
	i) Feeding Project			49,301		95,436		52,672		109,570		89,149		39,504		435,632		
	- Individual Fodder Development(Unit) 5 years	plot	201	4,020	500	10,000	571	11,429	1,200	24,000	850	17,000	429	8,571	3,751	75,020		
	- Straw Bailing Unit	unit	10	26,734	25	66,835	11	30,553	25	66,835	20	53,468	9	22,915	100	267,342		
	- Bio-mass Pelleting units	unit	2	10,694	2	10,694	1	6,111	2	10,694	2	10,694	1	4,583	10	53,468		
	- Grass choppers	unit	12	7,800	12	7,800	7	4,457	12	7,800	12	7,800	5	3,343	60	39,000		
	- Supply of seeds of pasture and legumes	pack	4	53	8	107	9	122	18	241	14	187	7	92	60	802		
	ii) Breeding program			20,400		20,400		28,000		65,400		40,800		21,000		196,000		
	- Estrus Synchronization(head for 5years)	time	5,000	10,000	5,000	10,000	6,857	13,714	16,000	32,000	10,000	20,000	5,143	10,286	48,000	96,000		
	- Artificial Insemination(times for 5 years)	time	20,800	10,400	20,800	10,400	28,571	14,286	66,800	33,400	41,600	20,800	21,429	10,714	200,000	100,000		
	iii) Goat breeding program			1,800		2,100		1,200		60,956		1,800		900		68,756		
	- Goat breeding farm	place							3,800	41,800					3,800	41,800		
	- Breeding female goat	head							600	6,600					600	6,600		
	- Provision & rehabilitation of facility for Thelahara	LS							1	10,000					1	10,000		
	- Goat provision	head	600	1,800	700	2,100	400	1,200	852	2,556	600	1,800	300	900	3,452	10,356		
	iv) Training for feeding improvement			188		154		150		360		240		108		1,200		
	- Production planning,financial management etc.	day	31	47	26	39	25	38	60	90	40	60	18	27	200	301		
	- Awareness and utilization of crop residue	day	31	47	26	39	25	37	60	90	40	60	18	27	200	300		
	- Technical training on products from crop residue	day	31	47	26	39	25	38	60	90	40	60	18	27	200	301		
	- Improving nutritive quality of crop residue	day	31	47	26	39	25	37	60	90	40	60	18	27	200	300		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or S			66,105		41,206		25,097		32,696		15,332		6,862		187,297		
	1) Milk marketing program			61,805		37,766		19,077		27,536		11,032		4,282		161,497		
	- Issuing Milk Canister 40L	no	10	150	50	748	29	427	50	748	50	748	21	320	210	3,140		
	- Issuing Milk Canister 20L	no	300	2,097	600	4,194	343	2,397	900	6,291	600	4,194	257	1,797	3,000	20,970		
	- Mobile Milk sale	unit	4	2,080	4	2,080	1	594	6	3,120	4	2,080	1	446	20	10,400		
	- UHT milk Processing	unit	4	53,468	2	26,734	1	13,367	1	13,367	0	0	0	0	8	106,937		
	- Chilling Tank 1500 liters	no	2	4,010	2	4,010	1	2,292	2	4,010	2	4,010	1	1,719	10	20,051		
	2) Training of milk production and market network improvement			4,300		3,440		6,020		5,160		4,300		2,580		25,800		
	- Clean milk production (1 day training)	time	3,375	4,050	2,700	3,240	4,725	5,670	4,050	4,860	3,375	4,050	2,025	2,430	20,250	24,300		
	- O&M of UHT processing plant (3 day training)	time	30	90	24	72	42	126	36	108	30	90	18	54	180	540		
	- Establishment of effective milk collection (3 day tr	time	26	78	21	62	36	109	31	93	26	78	16	47	155	465		
	- Market planning etc. (3 day training)	time	28	83	22	66	39	116	33	99	28	83	17	50	165	495		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)			29,508		35,614		21,238		28,647		24,340		13,841		153,188		
	1) Improvement of cold chain for semen transport			1,612		1,612		1,367		1,690		1,690		245		8,216		
	- Liquid Nitrogen Tank	no	1	390	1	390	1	390	1	390	1	390	0	0	5	1,950		
	- Semen canister (Big)	no	1	650	1	650	1	650	1	650	1	650	0	0	5	3,250		
	- Semen canister (Middle)	no	2	156	2	156	1	89	3	234	3	234	1	67	12	936		
	- AI kits	set	20	416	20	416	11	238	20	416	20	416	9	178	100	2,080		
	2) Livestock Training Program			1,153		922		1,614		1,383		1,153		692		6,915		
	i) Training of trainers	time	343	1,028	274	822	480	1,439	411	1,233	343	1,028	206	617	2,055	6,165		
	ii) Training of input suppliers	time	83	125	67	100	117	175	100	150	83	125	50	75	500	750		

COST BREAKDOWN for PROGRAMS by PROVINCE (4/4)

No.	Program	Inputs	Unit	Amount in Rs.1,000												Remarks		
				EP		NP		NCP		NWP		UP		Mahaweli System H			Total	
				Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount	Q'ty	Total Amount		Q'ty	Total Amount
		3) Livestock services program																
		i) Livestock service center		26,744		33,080		18,258		25,574		21,498		12,904		138,057		
		- Construction of livestock service center (100m2)	place	12	16,927	16	22,219	7	12,529	10	15,549	10	11,681	5	8,608	60	87,513	(0)
		- Pickup truck	unit	2	8,354	2	8,354	1	4,774	2	8,354	2	8,354	1	3,580	10	41,772	
		- Motor cycle	no	7	1,462	12	2,506	5	955	8	1,671	7	1,462	3	716	42	8,772	
4.	Consulting Services																	
		Incorporated in the Summary																
5.	Administration Cost of PMU & PDOA																	
		Incorporated in the Summary																
		GRAND TOTAL		1,369,741		2,923,784		1,598,749		2,243,160		1,192,785		729,162		10,057,380		

Source : JICA Survey Team

COST BREAKDOWN for EASTERN PROVINCE (EP) (1/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
1.	Mobilization of PMU and PIU													
		Incorporated in the Summary												
2.	Agricultural Crop Promotion Program					935,631		254,385		26,761		1,216,777		
2-1	Productivity Improvement Program (Agricultural Crop)					743,558		196,217		18,148		957,923		
		1) Rehabilitation of irrigation facility				340,672		0		0		340,672		
		i) Individual sub schemes		scheme								0		
		ii) Major tank rehabilitation	3	scheme		85,465						85,465		
		iii) Medium tank rehabilitation	7	scheme		91,665						91,665		
		iv) Minor tank rehabilitation	16	scheme		163,542						163,542		
		2) Agro well provision				401,886		87,760				489,646		
		- Construction of new agro wells	517	no		257,466						257,466		
		- Rehabilitation of agro wells	580	no		144,420						144,420		
		- Provision of pumps and accessories	1,097	set	80			87,760				87,760		
		3) Micro irrigation system						22,227				22,227		
		- Sprinkler irrigation for 500m2	29	set	329			9,538				9,538		
		- Drip irrigation system	204	ha	62			12,689				12,689		
		4) Enhancement of supply chain of quality seed and planting material				1,000		86,230		18,148		105,378		
		i) Provision of equipment & machinery for seed laboratory						501				501		
		- Tool equipment & machinery	1	set	501			501				501		
		ii) Provision of seed farms				1,000		2,700				3,700		
		- Kantale farm	1	LS		1,000		2,700				3,700		
		iii) Farmer traing program on quality self-seed & planting material producsion								900		900		
		- Quality self-seed production for OFCs	655	day	1.0					655		655		
		- Certified seed production for OFCs	219	day	1.0					219		219		
		- Quality planting material production for fruits	26	day	1.0					26		26		
		iv) Farmer training program on improvement of farm management etc.								17,248		17,248		
		- Farm management improvement	5,043	day	1.0					5,043		5,043		
		- OFCs production improvement	1,662	day	1.0					1,662		1,662		
		- Fruits production improvement	5,500	day	1.0					5,500		5,500		
		- Study tour	21	time	240					5,043		5,043		
		v) Supply of machinery, equipment ans material						83,029				83,029		
		- Manual highland seeder for pulses	76	no.	45			3,420				3,420	5 Ac/day	
		- Highland weeder	76	no.	50			3,800				3,800		
		- Ridger	38	no.	10			380				380		
		- Ground nut decorticating machine	11	no.	10			110				110	15 kg/hr	
		- Pulse splitting machine	28	no.	180			5,040				5,040	30-40 kg/hr	
		- Pulse cleaning machine	28	no.	50			1,400				1,400		
		- Grinding machine for flour making	84	no.	62			5,208				5,208		
		- Barbed wire fence	334	km	88			29,392				29,392		
		- Electric fence (protect from elephants)	59	km	581			34,279				34,279		

COST BREAKDOWN for EASTERN PROVINCE (EP) (2/4)

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					192,073		51,538		1,518		245,129		
		1) Established of proper interface and incubation												
		i) Establishment of collecting points				44,022		2,338		0		46,360		
		- Facilities for collecting point	14	place	3,144	44,022						44,022		
		- Equipment for collecting points	14	set	167			2,338				2,338		
		2) Improvement of farmers' storage facility				0		49,200		0		49,200		
		- Renovation of farmers' storage, onion	591	no	30			17,730				17,730		
		- Renovation of farmers' storage, chili	1,049	no	30			31,470				31,470		
		3) Upgrading of DEC and construction of collecting centre												
		i) Upgrading of DEC												
		Not subject												
		4) Rural road and farm access road rehabilitation				148,052		0		0		148,052		
		- Improvement of access roads to market	21.0	km	3,834	80,514						80,514		
		- Improvement of farm roads	134.0	km	504	67,538						67,538		
		5) Study tour				0		0		1,518		1,518		
		- To potential impact countries	1	LS	858					858		858		3 weeks x 9 person/6
		- To active export countries	1	LS	660					660		660		3 weeks x 9 person/6
2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					0		6,630		7,095		13,725		
		1) Training to extension officers				0		0		1,155		1,155		
		i) Project Awareness	300	day	0.75					225		225		
		ii) Farm management improvement	420	day	1.00					420		420		
		ii) Best Practices in OFC Cultivation	90	day	1.00					90		90		
		iii) Best Practices in Fruit Cultivation	90	day	1.00					90		90		
		iv) Farm Business Management	150	day	1.00					150		150		
		v) Exposure visits for experience sharing	90	day	2.00					180		180		
		2) Training facility improvement				0		6,630		0		6,630		
		- Motor cycle	30	no	209			6,270				6,270		
		- Personal computer	3	no	120			360				360		
		3) Overseas training								5,940		5,940		
		- Overseas training for OFCs	1	person	3,960					3,960		3,960		12 month
		- Overseas training for fruit	1	person	1,980					1,980		1,980		6 month

COST BREAKDOWN for EASTERN PROVINCE (EP) (3/4)

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
3.	Livestock Product Promotion Program					19,895		120,315		26,041		166,250		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					4,020		47,081		20,588		71,689		
	1) Milk production improvement program													
	i) Feeding Project													
	- Individual Fodder Development (Unit) 5 years	201	plot	20	4,020							4,020		
	- Straw Baling Unit	10	unit	2,673			26,734					26,734		
	- Bio-mass Pelleting units	2	unit	5,347			10,694					10,694		
	- Grass choppers	12	unit	650			7,800					7,800		
	- Supply of seeds of pasture and legumes	4	pack	13			53					53	20 kg/pack	
	Sub-Total				4,020		45,281					49,301		
	ii) Breeding program													
	- Estrus Synchronization(head for 5years)	5,000	time	2				10,000				10,000		
	- Artificial Insemination(times for 5 years)	20,800	time	1				10,400				10,400		
	Sub-Total						0	20,400				20,400		
	iii) Goat breeding program													
	- Goat breeding farm		place	11				0				0		
	- Breeding female goat		head	11				0				0		
	- Goat provision	600	head	3			1,800					1,800		
	Sub-Total						1,800					1,800		
	iv) Training for feeding improvement													
	- Production planning financial management etc.	31	day	1.50				47				47		
	- Awareness and utilization of crop residue	31	day	1.50				47				47		
	- Technical training on products from crop residue	31	day	1.50				47				47		
	- Improving nutritive quality of crop residue	31	day	1.50				47				47		
								188				188		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		61,805		4,300		66,105		
	1) Milk marketing program													
	- Issuing Milk Canister 40L	10	no	15			150					150		
	- Issuing Milk Canister 20L	300	no	7			2,097					2,097		
	- Mobile Milk sale	4	unit	520			2,080					2,080		
	- UHT milk Processing	4	unit	13,367			53,468					53,468		
	- Chilling Tank 1500 liters	2	no	2,005			4,010					4,010		
	Sub-Total					0	61,805					61,805		
	2) Training of milk production and market network improvement													
	- Clean milk production (1 day training)	3,375	time	1.2				4,050				4,050		
	- O&M of UHT processing plant (3 day training)	30	time	3.0				90				90		
	- Establishment of effective milk collection (3 day training)	26	time	3.0				78				78		
	- Market planning etc. (3 day training)	28	time	3.0				83				83		
	Sub-Total							4,300				4,300		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					15,875		11,428		1,153		28,456		
	1) Improvement of cold chain for semen transport													
	- Liquid Nitrogen Tank	1	no	390			390					390		
	- Semen canister (Big)	1	no	650			650					650		
	- Semen canister (Middle)	2	no	78			156					156		
	- AI kits	20	set	20.8			416					416		
	Sub-Total						1,612					1,612		

COST BREAKDOWN for NORTH PROVINCE (NP) (1/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
1.	Mobilization of PMU and PIU	Incorporated in the Summary												
2.	Agricultural Crop Promotion Program					2,545,128		173,183		24,090		2,742,401		
2-1	Productivity Improvement Program (Agricultural Crop)					2,326,907		126,915		15,708		2,469,530		
	1) Rehabilitation of irrigation facility					2,050,159		0		0		2,050,159		
	i) Individual sub schemes		4	scheme		1,529,057						1,529,057		
	- Kurai Tank augmentation and Parangi aru development			LS		414,361						414,361		
	- Welimaruthamadu Irrigation scheme			LS		124,244						124,244		
	- Muthayankaddu Tank Lift Irrigation Scheme			LS		609,167						609,167		
	- Vavunikulam Tank - Right & Left Banks Lift Irrigation			LS		381,285						381,285		
	ii) Major tank rehabilitation			scheme								0		
	iii) Medium tank rehabilitation		21	scheme		359,808						359,808		
	iv) Minor tank rehabilitation		14	scheme		161,294						161,294		
	2) Agro well provision					268,998		49,440				318,438		
	- Construction of new agro wells		291	no		172,230						172,230		
	- Rehabilitation of agro wells		327	no		96,768						96,768		
	- Provision of pumps and accessories		618	set	80			49,440				49,440		
	3) Micro irrigation system							17,202				17,202		
	- Sprinkler irrigation for 500m2		31	set	329			10,196				10,196		
	- Drip irrigation system		113	ha	62			7,006				7,006		
	4) Enhancement of supply chain of quality seed and planting material					7,750		60,273		15,708		83,731		
	i) Provision of equipment & machinery for seed laboratory							501				501		
	- Tool equipment & machinery		1	set	501			501				501		
	ii) Provision of seed farms					7,750		6,500				14,250		
	- Vaunia farm		1	LS	7,750			6,500				14,250		
	iii) Farmer traing program on quality self-seed & planting material producsion									517		517		
	- Quality self-seed production for OFCs		378	day	1.0					378		378		
	- Certified seed production for OFCs		126	day	1.0					126		126		
	- Quality planting material production for fruits		12	day	1.0					12		12		
	iv) Farmer training program on improvement of farm management etc.									15,191		15,191		
	- Farm management improvement		4,431	day	1.0					4,431		4,431		
	- OFCs production improvement		1,422	day	1.0					1,422		1,422		
	- Fruits production improvement		4,908	day	1.0					4,908		4,908		
	- Study tour		18	time	240					4,431		4,431		
	v) Supply of machinery, equipment ans material							53,272				53,272		
	- Manual highland seeder for pulses		29	no.	45			1,305				1,305	5 Ac/day	
	- Highland weeder		29	no.	50			1,450				1,450		
	- Ridger		14	no.	10			140				140		
	- Ground nut decorticating machine		4	no.	10			40				40	15 kg/hr	
	- Pulse splitting machine		11	no.	180			1,980				1,980	30-40 kg/hr	
	- Pulse cleaning machine		11	no.	50			550				550		
	- Grinding machine for flour making		61	no.	62			3,782				3,782		
	- Barbed wire fence		256	km	88			22,528				22,528		
	- Electric fence (protect from elephants)		37	km	581			21,497				21,497		

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COST BREAKDOWN for NORTH PROVINCE (NP) (2/4)

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
	2-2 Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					218,221		40,892		1,518		260,631		
	1) Established of proper interface and incubation													
	i) Establishment of collecting points					50,311		2,672		0		52,983		
	- Facilities for collecting point	16	place	3,144		50,311						50,311		
	- Equipment for collecting points	16	set	167				2,672				2,672		
	2) Improvement of farmers' storage facility					0		38,220		0		38,220		
	- Renovation of farmers' storage, onion	603	no	30				18,090				18,090		
	- Renovation of farmers' storage, chili	671	no	30				20,130				20,130		
	3) Upgrading of DEC and construction of collecting centre													
	i) Upgrading of DEC													
	Not subject													
	4) Rural road and farm access road rehabilitation					167,911		0		0		167,911		
	- Improvement of access roads to market	17.0	km	4,557		77,462						77,462		
	- Improvement of farm roads	151.0	km	599		90,449						90,449		
	5) Study tour					0		0		1,518		1,518		
	- To potential impact countries	1	LS	858						858		858	3 weeks x 9 person/6	
	- To active export countries	1	LS	660						660		660	3 weeks x 9 person/6	
	2-3 Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					0		5,376		6,864		12,240		
	1) Training to extension officers					0		0		924		924		
	i) Project Awareness	240	day	0.75						180		180		
	ii) Farm management improvement	336	day	1.00						336		336		
	ii) Best Practices in OFC Cultivation	72	day	1.00						72		72		
	iii) Best Practices in Fruit Cultivation	72	day	1.00						72		72		
	iv) Farm Business Management	120	day	1.00						120		120		
	v) Exposure visits for experience sharing	72	day	2.00						144		144		
	2) Training facility improvement					0		5,376		0		5,376		
	- Motor cycle	24	no	209.00				5,016				5,016		
	- Personal computer	3	no	120				360				360		
	3) Overseas training									5,940		5,940		
	- Overseas traing for OFCs	1	person	3,960						3,960		3,960	12 month	
	- Overseas traing for fruit	1	person	1,980						1,980		1,980	6 month	

COST BREAKDOWN for NORTH PROVINCE (NP) (3/4)

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
3.	Livestock Product Promotion Program					31,166		137,775		24,916		193,857		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					10,000		87,536		20,554		118,090		
	1) Milk production improvement program													
	i) Feeding Project													
	- Individual Fodder Development(Unit) 5 years	500	plot	20	10,000							10,000		
	- Straw Bailing Unit	25	unit	2,673			66,835					66,835		
	- Bio-mass Pelleting units	2	unit	5,347			10,694					10,694		
	- Grass choppers	12	unit	650			7,800					7,800		
	- Supply of seeds of pasture and legumes	8	pack	13			107					107	20 kg/pack	
	Sub-Total					10,000	85,436					95,436		
	ii) Breeding program													
	- Estrus Synchronization(head for 5years)	5,000	time	2				10,000				10,000		
	- Artificial Insemination(times for 5 years)	20,800	time	1				10,400				10,400		
	Sub-Total						0	20,400				20,400		
	iii) Goat breeding program													
	- Goat breeding farm		place	11				0				0		
	- Breeding female goat		head	11				0				0		
	- Goat provision	700	head	3			2,100					2,100		
	Sub-Total						2,100					2,100		
	iv) Training for feeding improvement													
	- Production planning,financial management etc.	26	day	1.50				39				39		
	- Awareness and utilization of crop residue	26	day	1.50				39				39		
	- Technical training on products from crop residue	26	day	1.50				39				39		
	- Improving nutritive quality of crop residue	26	day	1.50				39				39		
								154				154		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Sca					0		37,766		3,440		41,206		
	1) Milk marketing program													
	- Issuing Milk Canister 40L	50	no	15				748				748		
	- Issuing Milk Canister 20L	600	no	7				4,194				4,194		
	- Mobile Milk sale	4	unit	520				2,080				2,080		
	- UHTmilk Processing	2	unit	13,367				26,734				26,734		
	- Chilling Tank 1500 liters	2	no	2,005				4,010				4,010		
	Sub-Total					0	37,766					37,766		
	2) Training of milk production and market network improvement													
	- Clean milk production (1 day training)	2,700	time	1.2				3,240				3,240		
	- O&M of UHT processing plant (3 day training)	24	time	3.0				72				72		
	- Establishment of effective milk collection (3 day training)	21	time	3.0				62				62		
	- Market planning etc. (3 day training)	22	time	3.0				66				66		
	Sub-Total							3,440				3,440		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					21,166		12,473		922		34,561		
	1) Improvement of cold chain for semen transport													
	- Liquid Nitrogen Tank	1	no	390				390				390		
	- Semen canister (Big)	1	no	650				650				650		
	- Semen canister (Middle)	2	no	78				156				156		
	- AI kits	20	set	20.8				416				416		
	Sub-Total						1,612					1,612		

COST BREAKDOWN for NORTH PROVINCE (NP) (4/4)

No.	Program	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		2) Livestock Training Program												
		i) Training of trainers	274	time	3.0					822		822	See detail	
		ii) Training of input suppliers	67	time	1.5					100		100	See detail	
		Sub-Total								922		922		
		3) Livestock services program												
		i) Livestock service center												
		- Construction of livestock service center (100m2)	16	place	1,323	21,166						21,166	See detail	
		- Pickup track	2	unit	4,177			8,354				8,354	See detail	
		- Motor cycle	12	no	209			2,506				2,506	See detail	
		Sub-Total				21,166		10,861				32,027		
4.	Consulting Services													
		Incorporated in the Summary												
5.	Administration Cost of PMU & PDOA													
		Incorporated in the Summary												
		GRAND TOTAL				2,576,295		310,958		49,006		2,936,258		

Source : JICA Survey Team

COST BREAKDOWN for NORTH CENTRAL PROVINCE (NCP) (3/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		ii) Breeding program												
		- Estrus Synchronization(head for 5years)	6,857	time	2					13,714		13,714		
		- Artificial Insemination(times for 5 years)	28,571	time	1					14,286		14,286		
		Sub-Total						0		28,000		28,000		
		iii) Goad breeding program												
		- Goat breeding farm		place	11					0		0		
		- Breeding female goat		head	11					0		0		
		- Goat provision	400	head	3			1,200				1,200		
		Sub-Total						1,200				1,200		
		iv) Training for feeding improvement												
		- Production planning,financial management etc.	25	day	1.50					37		37		
		- Awareness and utilization of crop residue	25	day	1.50					37		37		
		- Technical training on products from crop residue	25	day	1.50					37		37		
		- Improving nutritive quality of crop residue	25	day	1.50					37		37		
										148		148		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		19,077		6,020		25,097		
		1) Milk marketing program										25,097		
		- Issuing Milk Canister 40L	29	no	15			427				427		
		- Issuing Milk Canister 20L	343	no	7			2,397				2,397		
		- Mobile Milk sale	1	unit	520			594				594		
		- UHTmilk Processing	1	unit	13,367			13,367				13,367		
		- Chilling Tank 1500 liters	1	no	2,005			2,292				2,292		
		Sub-Total						0		19,077		19,077		
		2) Training of milk production and market network improvement												
		- Clean milk production (1 day training)	4,725	time	1.2					5,670		5,670		
		- O&M of UHT processing plant (3 day training)	42	time	3.0					126		126		
		- Establishment of effective milk collection (3 day training)	36	time	3.0					109		109		
		- Market planning etc. (3 day training)	39	time	3.0					116		116		
		Sub-Total								6,020		6,020		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					11,477		7,096		1,614		20,186		
		1) Improvement of cold chain for semen transport												
		- Liquid Nitrogen Tank	1	no	390			390				390		
		- Semen canister (Big)	1	no	650			650				650		
		- Semen canister (Middle)	1	no	78			89				89		
		- AI kits	11	set	20.8			238				238		
		Sub-Total						1,367				1,367		
		2) Livestock Training Program												
		i) Training of trainers	480	time	3.0					1,439		1,439		See detail
		ii) Training of input suppliers	117	time	1.5					175		175		See detail
		Sub-Total								1,614		1,614		

COST BREAKDOWN for NORTH CENTRAL PROVINCE (NCP) (4/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		3) Livestock services program												
		i) Livestock service center												
		- Construction of livestock service center (100m2)	7	place	1,674	11,477					11,477		See detail	
		- Pickup track	1	unit	4,177			4,774			4,774		See detail	
		- Motor cycle	5	no	209			955			955		See detail	
		Sub-Total				11,477		5,729			17,206			
4.	Consulting Services													
		Incorporated in the Summary												
5.	Administration Cost of PMU & PDOA													
		Incorporated in the Summary												
GRAND TOTAL						1,142,478		411,348		58,184	1,612,011			
											1,612,011			

Source : JICA Survey Team

COST BREAKDOWN for NORTH WESTERN PROVINCE (NWP) (1/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks	
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total			
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		
1.	Mobilization of PMU and PIU														
		Incorporated in the Summary													
															1,945,532
2.	Agricultural Crop Promotion Program					1,465,921		412,971		66,639					1,945,532
2-1	Productivity Improvement Program (Agricultural Crop)					1,273,642		376,721		57,795					1,708,158
		1) Rehabilitation of irrigation facility				766,765									766,765
		i) Individual sub schemes	2	scheme		512,564									512,564
		- Ingnimitiya scheme		LS		412,357									412,357
		- Neelabemma Scheme (Phase II)		LS		100,207									100,207
		ii) Major tank rehabilitation	1	scheme		17,633									17,633
		iii) Medium tank rehabilitation	1	scheme		19,819									19,819
		iv) Minor tank rehabilitation	16	scheme		216,749									216,749
		2) Agro well provision				491,377		91,360							582,737
		- Construction of new agro wells	537	no		314,317									314,317
		- Rehabilitation of agro wells	605	no		177,060									177,060
		- Provision of pumps and accessories	1,142	set	80			91,360							91,360
		3) Micro irrigation system						68,195							68,195
		- Sprinkler irrigation for 500m2	50	set	329			16,445							16,445
		- Drip irrigation system	832	ha	62			51,750							51,750
		4) Enhancement of supply chain of quality seed and planting material				15,500		217,166		57,795					290,461
		i) Provision of equipment & machinery for seed laboratory						1,002							1,002
		- Tool equipment & machinery	2	set	501			1,002							1,002
		ii) Provision of seed farms				15,500		5,250							20,750
		- Wariyapola seed farm	1	LS		7,500		2,500							10,000
		- Galgamuwa seed farm	1	LS		8,000		2,750							10,750
		iii) Farmer traing program on quality self-seed & planting material production								375					375
		- Quality self-seed production for OFCs	200	day	1.0					200					200
		- Certified seed production for OFCs	67	day	1.0					67					67
		- Quality planting material production for fruits	108	day	1.0					108					108
		iv) Farmer training program on improvement of farm management etc.								57,420					57,420
		- Farm management improvement	18,000	day	1.0					18,000					18,000
		- OFCs production improvement	10,080	day	1.0					10,080					10,080
		- Fruits production improvement	11,340	day	1.0					11,340					11,340
		- Study tour	75	time	240					18,000					18,000
		v) Supply of machinery, equipment and material						210,914							210,914
		- Manual highland seeder for pulses	28	no.	45			1,260							1,260
		- Highland weeder	28	no.	50			1,400							1,400
		- Ridger	14	no.	10			140							140
		- Ground nut decorticating machine	4	no.	10			40							40
		- Pulse splitting machine	10	no.	180			1,800							1,800
		- Pulse cleaning machine	10	no.	50			500							500
		- Grinding machine for flour making	35	no.	62			2,170							2,170
		- Barbed wire fence	333	km	88			29,304							29,304
		- Electric fence (protect from elephants)	300	km	581			174,300							174,300

COST BREAKDOWN for NORTH WESTERN PROVINCE (NWP) (2/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					192,280		28,246		1,518		222,044		
	1) Established of proper interface and incubation					118,169		6,346		0		124,515		
	i) Establishment of collecting points					118,169		6,346		0		124,515		
	- Facilities for collecting point	38	place	3,110		118,169						118,169		
	- Equipment for collecting points	38	set	167				6,346				6,346		
	2) Improvement of farmers' storage facility					0		21,900		0		21,900		
	- Renovation of farmers' storage, onion	240	no	30				7,200				7,200		
	- Renovation of farmers' storage, chili	490	no	30				14,700				14,700		
	3) Upgrading of DEC and construction of collecting centre													
	i) Upgrading of DEC													
	Not subject													
	4) Rural road and farm access road rehabilitation					74,111		0		0		74,111		
	- Improvement of access roads to market	6.6	km	4,506		29,741						29,741		
	- Improvement of farm roads	74.9	km	592		44,370						44,370		
	5) Study tour					0		0		1,518		1,518		
	- To potential impact countries	1	LS	858						858		858	3 weeks x 9 person/6	
	- To active export countries	1	LS	660						660		660	3 weeks x 9 person/6	
												15,330		
2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					0		8,004		7,326		15,330		
	1) Training to extension officers					0		0		1,386		1,386		
	i) Project Awareness	360	day	0.75						270		270		
	ii) Farm management improvement	504	day	1.00						504		504		
	iii) Best Practices in OFC Cultivation	108	day	1.00						108		108		
	iii) Best Practices in Fruit Cultivation	108	day	1.00						108		108		
	iv) Farm Business Management	180	day	1.00						180		180		
	v) Exposure visits for experience sharing	108	day	2.00						216		216		
	2) Training facility improvement					0		8,004		0		8,004		
	- Motor cycle	36	no	209.00				7,524				7,524		
	- Personal computer	4	no	120				480				480		
	3) Overseas training									5,940		5,940		
	- Overseas training for OFCs	1	person	3,960						3,960		3,960	12 month	
	- Overseas training for fruit	1	person	1,980						1,980		1,980	6 month	
												297,628		
3.	Livestock Product Promotion Program					49,549		127,377		120,703		297,628		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					34,000		88,126		114,160		236,286		
	1) Milk production improvement program											236,286		
	i) Feeding Project													
	- Individual Fodder Development(Unit) 5 years	1,200	plot	20	24,000							24,000		
	- Straw Baling Unit	25	unit	2,673				66,835				66,835		
	- Bio-mass Pelleting units	2	unit	5,347				10,694				10,694		
	- Grass choppers	12	unit	650				7,800				7,800		
	- Supply of seeds of pasture and legumes	18	pack	13				241				241	20 kg/pack	
	Sub-Total					24,000		85,570				109,570		

COST BREAKDOWN for NORTH WESTERN PROVINCE (NWP) (3/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		ii) Breeding program												
		- Estrus Synchronization(head for 5years)	16,000	time	2					32,000		32,000		
		- Artificial Insemination(times for 5 years)	66,800	time	1					33,400		33,400		
		Sub-Total						0		65,400		65,400		
		iii) Goat breeding program												
		- Goat breeding farm Thelahara	3,800	place	11					41,800		41,800		
		- Breeding female goat Terahara	600	head	11					6,600		6,600		
		- Provision & rehabilitation of facility for Thelahara	1	LS	10,000	10,000						10,000		
		- Goat provision	852	head	3			2,556				2,556		
		Sub-Total				10,000		2,556		48,400		60,956		
		iv) Training for feeding improvement												
		- Production planning,financial management etc.	60	day	1.50					90		90		
		- Awareness and utilization of crop residue	60	day	1.50					90		90		
		- Technical training on products from crop residue	60	day	1.50					90		90		
		- Improving nutritive quality of crop residue	60	day	1.50					90		90		
		Sub-Total								360		360		
		3-2 Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale				0		27,536		5,160		32,696		
		1) Milk marketing program										32,696		
		- Issuing Milk Canister 40L	50	no	15			748				748		
		- Issuing Milk Canister 20L	900	no	7			6,291				6,291		
		- Mobile Milk sale	6	unit	520			3,120				3,120		
		- UHT milk Processing	1	unit	13,367			13,367				13,367		
		- Chilling Tank 1500 liters	2	no	2,005			4,010				4,010		
		Sub-Total						0		27,536		27,536		
		2) Training of milk production and market network improvement												
		- Clean milk production (1 day training)	4,050	time	1.2					4,860		4,860		
		- O&M of UHT processing plant (3 day training)	36	time	3.0					108		108		
		- Establishment of effective milk collection (3 day training)	31	time	3.0					93		93		
		- Market planning etc. (3 day training)	33	time	3.0					99		99		
		Sub-Total								5,160		5,160		
		3-3 Livestock Service Quality and Accessibility Improvement Program (Milk)				15,549		11,715		1,383		28,647		
		1) Improvement of cold chain for semen transport												
		- Liquid Nitrogen Tank	1	no	390			390				390		
		- Semen canister (Big)	1	no	650			650				650		
		- Semen canister (Middle)	3	no	78			234				234		
		- AI kits	20	set	20.8			416				416		
		Sub-Total						1,690				1,690		
		2) Livestock Training Program										28,647		
		i) Training of trainers	411	time	3.0					1,233		1,233	See detail	
		ii) Training of input suppliers	100	time	1.5					150		150	See detail	
		Sub-Total								1,383		1,383		

COST BREAKDOWN for NORTH WESTERN PROVINVE (NWP) (4/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		3) Livestock services program												
		i) Livestock service center												
		- Construction of livestock service center (100m2)	10	place	1,555	15,549						15,549		See detail
		- Pickup track	2	unit	4,177			8,354				8,354		See detail
		- Motor cycle	8	no	209			1,671				1,671		See detail
		Sub-Total				15,549		10,025				25,574		
4.	Consulting Services													
		Incorporated in the Summary												
5.	Administration Cost of PMU & PDOA													
		Incorporated in the Summary												
		GRAND TOTAL				1,515,470		540,348		187,342		2,243,160		
												2,243,160		

Source : JICA Survey Team

COST BREAKDOWN for UVA PROVINCE (1/4)

1.0US\$ = 79 Yen = 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
1.	Mobilization of PMU and PIU													
		Incorporated in the Summary												
												1,021,124		
2.	Agricultural Crop Promotion Program					709,045		275,629		36,450		1,021,124		
2-1	Productivity Improvement Program (Agricultural Crop)					601,369		235,171		27,837		864,376		
		1) Rehabilitation of irrigation facility				72,464						72,464		
		i) Individual sub schemes	0	scheme										
		ii) Major tank rehabilitation	0	scheme								0		
		iii) Medium tank rehabilitation	2	scheme	4,415							4,415		
		iv) Minor tank rehabilitation	8	scheme	68,049							68,049		
												651,684		
		2) Agro well provision				522,404		129,280				651,684		
		- Construction of new agro wells	760	no		334,198						334,198		
		- Rehabilitation of agro wells	856	no		188,206						188,206		
		- Provision of pumps and accessories	1,616	set	80			129,280				129,280		
												51,775		
		3) Micro irrigation system						51,775				51,775		
		- Sprinkler irrigation for 500m2	50	set	329			16,445				16,445		
		- Drip irrigation system	568	ha	62			35,330				35,330		
												88,453		
		4) Enhancement of supply chain of quality seed and planting material				6,500		54,116		27,837		88,453		
		i) Provision of equipment & machinery for seed laboratory						501				501		
		- Tool equipment & machinery	1	set	501			501				501		
		ii) Provision of seed farms				6,500		4,750				11,250		
		- Okkampitiya farm	1	LS		6,500		4,750				11,250		
		- see detail												
		iii) Farmer training program on quality self-seed & planting material production							297			297		
		- Quality self-seed production for OFCs	179	day	1.0				179			179		
		- Certified seed production for OFCs	60	day	1.0				60			60		
		- Quality planting material production for fruits	58	day	1.0				58			58		
		iv) Farmer training program on improvement of farm management etc.							27,540			27,540		
		- Farm management improvement	9,360	day	1.0				9,360			9,360		
		- OFCs production improvement	7,560	day	1.0				7,560			7,560		
		- Fruits production improvement	1,260	day	1.0				1,260			1,260		
		- Study tour	39	time	240				9,360			9,360		
		v) Supply of machinery, equipment and material						48,865				48,865		
		- Manual highland seeder for pulses	5	no.	45			225				225		
		- Highland weeder	5	no.	50			250				250		
		- Ridger	2	no.	10			20				20		
		- Ground nut decorticating machine	1	no.	10			10				10		
		- Pulse splitting machine	2	no.	180			360				360		
		- Pulse cleaning machine	2	no.	50			100				100		
		- Grinding machine for flour making	33	no.	62			2,046				2,046		
		- Barbed wire fence	323	km	88			28,424				28,424		
		- Electric fence (protect from elephants)	30	km	581			17,430				17,430		

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COST BREAKDOWN for UVA PROVINCE (2/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					75,677		24,708		1,518		101,903		
		1) Established of proper interface and incubation				56,069		4,008		0		60,077		
		i) Establishment of collecting points				56,069		4,008		0		60,077		
		- Facilities for collecting point	24	place	2,336	56,069						56,069		
		- Equipment for collecting points	24	set	167			4,008				4,008		
		2) Improvement of farmers' storage facility				0		20,700		0		20,700		
		- Renovation of farmers' storage, onion	300	no	30			9,000				9,000		
		- Renovation of farmers' storage, chili	390	no	30			11,700				11,700		
		3) Upgrading of DEC and construction of collecting centre												
		i) Upgrading of DEC												
		Not subject												
		4) Rural road and farm access road rehabilitation				19,607		0		0		19,607		
		- Improvement of access roads to market	2.4	km	3,385	8,125						8,125		
		- Improvement of farm roads	25.8	km	445	11,482						11,482		
		5) Study tour				0		0		1,518		1,518		
		- To potential impact countries	1	LS	858					858		858	3 weeks x 9 person/6	
		- To active export countries	1	LS	660					660		660	3 weeks x 9 person/6	
2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					32,000		15,750		7,095		54,845		
		1) Training to extension officers				0		0		1,155		1,155		
		i) Project Awareness	300	day	0.75					225		225		
		ii) Farm management improvement	420	day	1.00					420		420		
		iii) Best Practices in OFC Cultivation	90	day	1.00					90		90		
		iv) Best Practices in Fruit Cultivation	90	day	1.00					90		90		
		v) Farm Business Management	150	day	1.00					150		150		
		vi) Exposure visits for experience sharing	90	day	2.00					180		180		
		2) Training facility improvement				32,000		15,750		0		47,750		
		- DATC Bibile at Moneragala	1	LS	5,000	5,000		5,000				10,000		
		- ISTC Bindunuwewa at Badulla	1	LS	27,000	27,000		4,000				31,000		
		- Motor cycle	30	no	209.00			6,270				6,270		
		- Personal computer	4	no	120			480				480		
		3) Overseas training								5,940		5,940		
		- Overseas training for OFCs	1	person	3,960					3,960		3,960	12 month	
		- Overseas training for fruit	1	person	1,980					1,980		1,980	6 month	
												171,661		
3.	Livestock Product Promotion Program					28,681		96,487		46,493		171,661		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					17,000		73,949		41,040		131,989		
		1) Milk production improvement program										131,989		
		i) Feeding Project												
		- Individual Fodder Development (micro silage)	850	plot	20	17,000						17,000		
		- Straw Bailing Unit	20	unit	2,673			53,468				53,468		
		- Bio-mass Pelleting units	2	unit	5,347			10,694				10,694		
		- Grass choppers	12	unit	650			7,800				7,800		
		- Supply of seeds of pasture and legumes	14	pack	13			187				187	20 kg/pack	
		Sub-Total				17,000		72,149				89,149		

COST BREAKDOWN for UVA PROVINCE (3/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		ii) Breeding program												
		- Estrus Synchronization(head for 5years)	10,000	time	2					20,000		20,000		
		- Artificial Insemination(times for 5 years)	41,600	time	1					20,800		20,800		
		Sub-Total						0		40,800		40,800		
		iii) Goad breeding program												
		- Goat breeding farm		place	11					0		0		
		- Breeding female goat		head	11					0		0		
		- Goat provision	600	head	3			1,800				1,800		
		Sub-Total						1,800				1,800		
		iv) Training for feeding improvement												
		- Production planning.financial management etc.	40	day	1.50					60		60		
		- Awareness and utilization of crop residue	40	day	1.50					60		60		
		- Technical training on products from crop residue	40	day	1.50					60		60		
		- Improving nutritive quality of crop rsidue	40	day	1.50					60		60		
		Sub-Total								240		240		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		11,032		4,300		15,332		
		1) Milk marketing program												
		- Issuing Milk Canister 40L	50	no	15			748				748		
		- Issuing Milk Canister 20L	600	no	7							4,194		
		- Mobile Milk sale	4	unit	520			2,080				2,080		
		- UHT milk Processing	0	unit	13,367			0				0		
		- Chilling Tank 1500 liters	2	no	2,005			4,010				4,010		
		Sub-Total						0		11,032		11,032		
		2) Training of milk production and market network improvement												
		- Clean milk production (1 day training)	3,375	time	1.2					4,050		4,050		
		- O&M of UHT processing plant (3 day training)	30	time	3.0					90		90		
		- Establishment of effective milk collection (3 day training)	26	time	3.0					78		78		
		- Market planning etc. (3 day training)	28	time	3.0					83		83		
		Sub-Total								4,300		4,300		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					11,681		11,506		1,153		24,340		
		1) Improvement of cold chain for semen transport												
		- Liquid Nitrogen Tank	1	no	390			390				390		
		- Semen canister (Big)	1	no	650			650				650		
		- Semen canister (Middle)	3	no	78			234				234		
		- AI kits	20	set	20.8			416				416		
		Sub-Total						1,690				1,690		
		2) Livestock Training Program										24,340		
		i) Training of trainers	343	time	3.0					1,028		1,028		
		ii) Training of input suppliers	83	time	1.5					125		125		
		Sub-Total								1,153		1,153		

COST BREAKDOWN for UVA PROVINCE (4/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
		3) Livestock services program												
		i) Livestock service center												
		- Construction of livestock service center (100m2)	10	place	1,168	11,681						11,681		
		- Pickup track	2	unit	4,177			8,354				8,354		
		- Motor cycle	7	no	209			1,462				1,462		
		Sub-Total				11,681		9,816				21,498		
4.	Consulting Services													
		Incorporated in the Summary												
5.	Administration Cost of PMU & PDOA													
		Incorporated in the Summary												
		GRAND TOTAL				737,726		372,116		82,943		1,192,785		
												1,192,785		

Source : JICA Survey Team

COST BREAKDOWN for MAHAWELI SYSTEM H (1/4)

1.0US\$ = 79 Yen 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
1.	Mobilization of PMU and PIU													
		Incorporated in the Summary												
2.	Agricultural Crop Promotion Program					519,495		115,244		12,209		646,947		
2-1	Productivity Improvement Program (Agricultural Crop)					414,576		80,017		9,998		504,591		
		1) Rehabilitation of irrigation facility				375,827		0		0		375,827		
		i) Individual sub schemes	1	scheme										
		- Mahaweli System H scheme		LS		375,827						375,827		
		ii) Major tank rehabilitation		scheme								0		
		iii) Medium tank rehabilitation		scheme								0		
		iv) Minor tank rehabilitation		scheme								0		
		2) Agro well provision				38,750		6,640				45,390		
		- Construction of new agro wells	40	no		25,203						25,203		
		- Rehabilitation of agro wells	43	no		13,547						13,547		
		- Provision of pumps and accessories	83	set	80			6,640				6,640		
		3) Micro irrigation system						13,837				13,837		
		- Sprinkler irrigation for 500m2	12	set	329			3,947				3,947		
		- Drip irrigation system	159	ha	62			9,890				9,890		
		4) Enhancement of supply chain of quality seed and planting material						59,540		9,998		69,538		
		i) Provision of equipment & machinery for seed laboratory						0				0		
		- Tool equipment & machinery		set	501			0				0		
		ii) Provision of seed farms												
		Not subject												
		iii) Farmer traing program on quality self-seed & planting material producsction								692		692		
		- Quality self-seed production for OFCs	503	day	1.0					503		503		
		- Certified seed production for OFCs	168	day	1.0					168		168		
		- Quality planting material production for fruits	21	day	1.0					21		21		
		iv) Farmer training program on improvement of farm management etc.								9,306		9,306		
		- Farm management improvement	2,728	day	1.0					2,728		2,728		
		- OFCs production improvement	928	day	1.0					928		928		
		- Fruits production improvement	2,921	day	1.0					2,921		2,921		
		- Study tour	11	time	240					2,728		2,728		
		v) Supply of machinery, equipment ans material						59,540				59,540		
		- Manual highland seeder for pulses	69	no.	45			3,105				3,105	5 Ac/day	
		- Highland weeder	69	no.	50			3,450				3,450		
		- Ridger	35	no.	10			350				350		
		- Ground nut decorticating machine	10	no.	10			100				100	15 kg/hr	
		- Pulse splitting machine	25	no.	180			4,500				4,500	30-40 kg/hr	
		- Pulse cleaning machine	25	no.	50			1,250				1,250		
		- Grinding machine for flour making	55	no.	62			3,410				3,410		
		- Barbed wire fence	209	km	88			18,392				18,392		
		- Electric fence (protect from elephants)	43	km	581			24,983				24,983		

COST BREAKDOWN for MAHAWELI SYSTEM H (2/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)								Remarks
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training		Total		
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible	
2-2	Logistic System Improvement and Entrepreneurs Development Program (Agricultural Crop)					104,918		31,225		1,518		137,661		
		1) Established of proper interface and incubation												
		i) Establishment of collecting points				16,737		835		0		17,572		
		- Facilities for collecting point	5	place	3,347	16,737						16,737		
		- Equipment for collecting points	5	set	167			835				835		
		2) Improvement of farmers' storage facility				0		30,390		0		30,390		
		- Renovation of farmers' storage, onion	257	no	30			7,710				7,710		
		- Renovation of farmers' storage, chili	756	no	30			22,680				22,680		
		3) Upgrading of DEC and construction of collecting centre				0		0		0		0		
		i) Upgrading of DEC												
		- not subject	1	LS								0	Cold storage etc.	
		4) Rural road and farm access road rehabilitation				88,181		0		0		88,181		
		- Improvement of access roads to market	12.0	km	4,851	58,210						58,210		
		- Improvement of farm roads	47.0	km	638	29,971						29,971		
		5) Study tour				0		0		1,518		1,518		
		- To potential impact countries	1	LS	858					858		858	3 weeks x 9 person/6	
		- To active export countries	1	LS	660					660		660	3 weeks x 9 person/6	
2-3	Program on Enhancement of Extension Services and Ground Level Research (Agricultural Crop)					0		4,002		693		4,695		
		1) Training to extension officers						0		693		693		
		i) Project Awareness	180	day	0.75					135		135		
		ii) Farm management improvement	252	day	1.00					252		252		
		ii) Best Practices in OFC Cultivation	54	day	1.00					54		54		
		iii) Best Practices in Fruit Cultivation	54	day	1.00					54		54		
		iv) Farm Business Management	90	day	1.00					90		90		
		v) Exposure visits for experience sharing	54	day	2.00					108		108		
		2) Training facility improvement				0		4,002		0		4,002		
		- Motor cycle	18	no	209.00			3,762				3,762		
		- Personal computer	2	no	120			240				240		
		3) Overseas training								0		0		
		- Overseas training for OFCs		person	3,960					0		0	12 month	
		- Overseas training for fruit		person	1,980					0		0	6 month	
												82,215		
3.	Livestock Product Promotion Program					17,179		40,656		24,380		82,215		
3-1	Productivity Improvement Program of Semi-intensive and Intensive Farmer (Milk)					8,571		31,833		21,108		61,512		
		1) Milk production improvement program										61,512		
		i) Feeding Project												
		- Individual Fodder Development (Unit) 5 years	429	plot	20	8,571						8,571		
		- Straw Bailing Unit	9	unit	2,673			22,915				22,915		
		- Bio-mass Pelletting units	1	unit	5,347			4,583				4,583		
		- Grass choppers	5	unit	650			3,343				3,343		
		- Supply of seeds of pasture and legumes	7	pack	13			92				92	20 kg/pack	
		Sub-Total				8,571		30,933				39,504		

COST BREAKDOWN for MAHAWELI SYSTEM H (3/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		ii) Breeding program												
		- Estrus Synchronization(head for 5years)	5,143	time	2					10,286		10,286		
		- Artificial Insemination(times for 5 years)	21,429	time	1					10,714		10,714		
		Sub-Total						0		21,000		21,000		
		iii) Goad breeding program												
		- Goat breeding farm		place	11					0		0		
		- Breeding female goat		head	11					0		0		
		- Goat provision	300	head	3			900				900		
		Sub-Total						900				900		
		iv) Training for feeding improvement												
		- Production planning,financial management etc.	18	day	1.50					27		27		
		- Awareness and utilization of crop residue	18	day	1.50					27		27		
		- Technical training on products from crop residue	18	day	1.50					27		27		
		- Improving nutritive quality of crop residue	18	day	1.50					27		27		
										108		108		
3-2	Program on Market Development on Fresh Milk through Enhancement of Cooperative or Small and Medium Scale					0		4,282		2,580		6,862		
		1) Milk marketing program										6,862		
		- Issuing Milk Canister 40L	21	no	15			320				320		
		- Issuing Milk Canister 20L	257	no	7			1,797				1,797		
		- Mobile Milk sale	1	unit	520			446				446		
		- UHTmilk Processing		unit	13,367			0				0		
		- Chilling Tank 1500 liters	1	no	2,005			1,719				1,719		
		Sub-Total						4,282				4,282		
		2) Training of milk production and market network improvement												
		- Clean milk production (1 day training)	2,025	time	1.2					2,430		2,430		
		- O&M of UHT processing plant (3 day training)	18	time	3.0					54		54		
		- Establishment of effective milk collection (3 day training)	16	time	3.0					47		47		
		- Market planning etc. (3 day training)	17	time	3.0					50		50		
		Sub-Total								2,580		2,580		
3-3	Livestock Service Quality and Accessibility Improvement Program (Milk)					8,608		4,542		692		13,841		
		1) Improvement of cold chain for semen transport												
		- Liquid Nitrogen Tank		no	390			0				0		
		- Semen canister (Big)		no	650			0				0		
		- Semen canister (Middle)	1	no	78			67				67		
		- AI kits	9	set	20.8			178				178		
		Sub-Total						245				245		
		2) Livestock Training Program										13,841		
		i) Training of trainers	206	time	3.0					617		617	See detail	
		ii) Training of input suppliers	50	time	1.5					75		75	See detail	
		Sub-Total								692		692		

COST BREAKDOWN for MAHAWELI SYSTEM H (4/4)

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
		3) Livestock services program												
		i) Livestock service center												
		- Construction of livestock service center (100m2)	5	place	1,674	8,608					8,608		See detail	
		- Pickup track	1	unit	4,177			3,580			3,580		See detail	
		- Motor cycle	3	no	209			716			716		See detail	
		Sub-Total				8,608		4,297			12,904			
4.	Consulting Services													
		Incorporated in the Summary												
5.	Administration Cost of PMU & PDOA													
		Incorporated in the Summary												
GRAND TOTAL						536,674		155,900		36,588	729,162			
											729,162			

Source : JICA Survey Team

COST BREAKDOWN OF MOBILIZATION, CONSULTING SERVICES AND ADMINISTRATION

1.0US\$ = 79 Yen = 132 Rs.

No.	Project Components	Inputs	Q'ty	Unit	Unit Price (Rs.1,000)	Amount (Rs.1,000)						Remarks		
						Civil works		Equipment/ materials		Awareness/ Consulting/ Training			Total	
						Eligible	Non-eligible	Eligible	Non-eligible	Eligible	Non-eligible		Eligible	Non-eligible
1.	Mobilization of PMU and PIUs					0		175,571		0		175,571		
		Mobilization of PMU and PIUs				0		154,056		0		154,056		
		1) Vehicle and equipment												
		- 4WD Vehicles	1	no	7,017.72			7,018				7,018	CIF excluding tax	
		- 4WD pickup truck	24	no	5,012.66			120,304				120,304	CIF excluding tax	
		- Motorcycles	80	no	334.18			26,734				26,734	CIF excluding tax	
		2) Office equipment				0		21,515		0		21,515		
		- Desktop computer & software	48	set	100.00			4,800				4,800		
		- Laptop computer & software	18	set	140.00			2,520				2,520		
		- Laser printer (A4/A3)	12	no	125.00			1,500				1,500		
		- Ink jet printer (A4/A3)	6	no	38.00			228				228		
		- GIS software (arc view with spatial and network analysis)	1	no	405.00			405				405		
		- Photo copy machine	12	no	600.00			7,200				7,200		
		- UPS (1000VA)	48	no	12.00			576				576		
		- A0 plotter	5	no	400.00			2,000				2,000		
		- GPS	12	no	68.00			816				816		
		- Digital video Camera	6	no	100.00			600				600		
		- Digital camera	12	no	30.00			360				360		
		- Projector	6	no	85.00			510				510		
		Sub-Total												
4.	Consulting Services (Tentative estimate)									2,461,536		2,461,536		
		1) Remuneration and salary												
		i) Professional A								479,043		479,043		
		ii) Professional B								690,550		690,550		
		iii) Sub professional & supporting staff								747,760		747,760		
		Sub-Total								1,917,353		1,917,353		
		2) Direct cost								544,183		544,183		
		Sub-Total								544,183		544,183		
5.	Administration Cost of PMU & PDOA (Tentative estimate)									566,700		566,700		
		1) Personnel cost - officers	3,888	men-month	75.00					291,600		291,600	54 officers x 12 months x 6 years	
		2) Personnel cost - supporting staff	3,888	men-month	50.00					194,400		194,400	54 staff x 12 x 6	
		3) Monitoring and survey	1	LS	6,000.00					6,000		6,000	For environment, Rs.500,000x12times	
		4) Operation and maintenance of vehicles / motor cycles	72	month	430.00					30,960		30,960	Fuel, oil, tyres services etc.	
		5) Office maintenance	72	month	270.00					19,440		19,440	Communication, electric & water charges etc	
		6) Consumables and others	1	LS	24,300.00					24,300		24,300	5% of 1) & 2)	
												0		

Source : JICA Survey Team

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2.2.3 Cost of PMU & PIUs, Consulting Services and Administration

2.2.4 Cost Breakdown of Government Building and Facilities

Cost Breakdown of Government Building & Facilities

Type of Facilities	Name of Facility	District	Work Item	Unit	Qty	Unit Rate (M.Rs)	Amount (M.Rs)		
							Civil	Equipment	
Training Facilities	DATC Bibile	Moneragala	Construction of Irrigation system (a pump & 1 km distribution system & micro irrigation for seed production)	Set	1	2.00	2.00		
			Rehabilitation of storage facilities	Sq.m	300	0.01	3.00		
			Provision of farm Machinery (Tractor, seeders, weeders etc.)	Set	1	3.00		3.00	
			Integrated farming demonstration units - New item	No	1	2.00		2.00	
			Sub - Total					5.00	5.00
	ISTC Bindunuwewa	Badulla	Construction of accommodation building for trainees	LS	1		58.00		
			Construction of a well and internal water distribution lines	Item	1	1.50	1.50		
			Development of demonstration plots with micro irrigation and fencing arrangements						
			- Demonstration plots with micro irrigation	Ha	5	0.50	2.50		
			- Fencing	km	3	1.00	3.00		
			Provision of mini van for transportation of trainees	No	1	10.00		10.00	
			Provision of Training facilities	Lot	1	1.00		1.00	
	Sub - Total					65.00	11.00		
	Provincial Seed Farms	Okkampitiya Farm, Moneragala	Moneragala	Irrigation canal Rehabilitation under Okkampitiya Irri. System	km	1.5	2.50	3.75	
Construction of agro wells with water pump (instead of regulator pond)				No	2	0.50	1.00		
Provision of sprinkler and drip irrigation kits				Ha	3	0.50	1.50		
Rehabilitation of storage facilities				Sq m	70	0.03	1.75		
Provision of basic farm Machinery - New Item				Set	1	2.50		2.50	
Provision of OFC seed processing machine - New item				No	1	0.25		0.25	
Provision of multipurpose OFC seeder - New item				No	1	0.50		0.50	
Sub - Total								8.00	3.25
Wariyapola Seed Farm		Kurunegala	Repairs & Capacity improvement to exist. Minor tank	No	1	3.00	3.00		
			Rehab. of agro wells and provision of micro irrigation facilities	Ha	3	0.50	1.50		
			Const. of green and net houses	Sq. m	1250	0.00	1.50		
			Reha. Storage facilities with cooling facilities	Sq.M	30	0.05	1.50		
			Basic machinery for land preparation (tractor & implements	set	1	2.50		2.50	
Sub - Total						7.50	2.50		
Galgamuwa Seed Farm		Kurunegala	Establishment of irrigation system within the farm (2' pipe line)	Ha	3	0.50	1.50		
			Assure water supply providing small canal from nearby irrigation tank	km	1		-		
			Provision of fence	km	4	1.00	4.00		
			Const. of green and net houses	sq.m	1250	0.00	1.50		
			Basic machinery for land preparation	Set	1	2.50		2.50	
			Provision of Water pump & accessories (high capacity)	Set	1	0.25		0.25	
			Rehabilitation of Farm Manager Quarters - New Item	No	1	1.00		1.00	
Sub - Total						8.00	2.75		
Vaunia Farm		Vavuniya	Provision of 3 Ph. Electricity	Item	allow		2.50		
	Provision of sprinkler and drip irrigation kits		Ha	6	0.50	3.00	3.00		
	Basic machinery for land preparation		Set	1	3.00		3.00		
	Deepening existing wells and construct several deep wells		Item	allow		3.75			
	- Deepening existing wells		No						
	Construct Deep wells with pumping unit		No	3	0.50	1.50			
	Provision of water pumps for existing wells		No	5	0.10		0.50		
Sub - Total					7.75	6.50			
Kantale Farm	Trincomalee	Provision of water pumps	No	2	0.10		0.20		
		Provision of agro wells	No	2	0.50		1.00		
		Provision of sprinkler and drip irrigation kits	Ha	5	0.50		2.50		
Sub - Total					1.00	2.70			
Dedicated Economic Center	Dambulla	Matale	Construction of cold storage	Set	1	50.00	50.00		
			Construction of 48 new stalls for export marketing (14 Nos corrected as 48 Nos)	Nos	14	1.00	14.00		
	Sub - Total					64.00	-		
	Thambuttegama	Anuradhapura	Construction of canopy	Sq.m	500	0.04	20.00		
			Rehabilitation of Internal Roads	Km	1	1.00	1.00		
Construction of toilet facilities	unit	5	0.20		1.00				
Sub - Total					22.00	-			
Grand Total						188.25	33.70		

2.3 Cost for Irrigation Schemes

(1) Individual schemes

Description of Individual Schemes

Name of sub scheme	District	DS Division	Project feature	Rehabilitation
Mahaweli System H Rehabilitation scheme	Anuradhapura Kurunegala	7 DSs Galgamuwa	Total farm area of System H : 39,900 ha <u>About target area by the Project:</u> Kalawewa reservoir capacity : 123 MCM Command area: 25,360 ha RB canal : 50 km LB canal : 22 km Kalawewa Yoda Ela : 25.3 Kalawewa Goda Ela : 3.7 km Balalu wewa Goda Ela : 2.1 km	Rehabilitation of damaged canal sections and structures in RB & LB main canals and improvement of head works and canal systems of 62 minor
Improvements to Ingnimitiya scheme	Puttalam	Anamadurawa	Tank capacity : 72.6 MCM Command area : 2,643 ha. RB Main Canal : 21 km RB D Canal : 12 km RB Field Canal : 45 km LB Main Canal : 23 km LD D Canal : 14 km LB Field Canal : 49 km	Rehabilitation of 44 km of Main Canals, 26 km of D Canals and 94 km of Field Canals
Neelabemma Scheme (Phase I: Existing)	Puttalam	Karuwalagaswewa	Tank capacity : N.A.(Anicut) Command area : 860 ha (Phase I) LB Feeder Canal : 12 km	Improvement of 12 km of Feeder canal and canal system under Kudaottupallama tank.
Kurai Tank augmentation and Parangiaru development Project	Manthai West	Murunkan	<u>Kurai Tank</u> Tank Capacity : Present – 2.5 MCM, Proposed – 4.0 MCM Command Area: 700 ha. RB & LB Main Canals : 6.0 km Prop. Upper LB Main Canal : 6.0 km RB & LB Feeder Canals : 14.0 km Feeder Tanks : 28 Nos Field canals : 50.0 km <u>Parangiaru Anicut & Feeder Canal</u> Anicut: Length – 55 m., Max. ht. – 3 m. Head Sluice: 4.5 m x 1.5 m Radial Gate Inlet Canal : 100 m, Feeder Canal – 7.5 km	<u>Kurai Tank</u> Augmentation of tank by raising 70 cm of tank bund & 75cm of spillway crest and improving of 3 sluices. Improvement or construction of 12 km of main canals, 14 km of feeder canals, 28 Nos feeder tanks and 50 km of field canals. <u>Parangiaru Anicut & Feeder Canal</u> Construction of new anicut and 7.5 km supply canal for diversion water to Kurai tank.
Rehabilitation of Welimaruthamaduru Irrigation scheme (Pallamaduru GND)	Mannar	Manthai West	Tank capacity : 3.4 MCM Command area : Present - 304 ha, Proposed - 726 ha RB & LB Main Canals : 2.0 km RB & LB Feeder Canals : 14.0 km Field Tanks : 15 Nos Field Canal : 40 km.	Rehabilitation of tank bund, 2 sluices and a spillway. Improvement or re-construction of 2 km of main canals, 14 km of feeder canals and 15 Nos feeder tanks.
Rehabilitation of Muthayank	Mullaitivu	Oddusudan	Tank Capacity : 50.6 MCM Command Area : 2,468 ha. Main Canal : RB - 20.8 km, LB -	Rehabilitation of head works including strengthening of tank bund and repair and

Name of sub scheme	District	DS Division	Project feature	Rehabilitation
addu Tank Lift Irrigation Scheme			22.8 km RB Br. canal : 1.6 km RB & LB D Canal : 20.5 km RB & LB Field Canal : 173.6 km	reconditioning of two spill radial gates and two sluices. Rehabilitation of 43.6 km of Main Canals, 1.6 km of Branch Canals, 20.5 km of D Canals and 173.6 km of Field Canals Construction & reconstruction of 18 (13 for RB & 5 for LB) pumping stations for lift irrigation including supply of 24 water pumps and construction of 17 pump houses, 13,240 m of rising mains and 32.8 km of concrete lined irrigation canals
Rehabilitation of Vavunikulam Tank - Right & Left Banks Lift Irrigation System	Mullaitivu	Monthai East	Tank capacity : 43.5 MCM Command Area : 2,790 ha. Main Canal : RB - 19.6 km, LB - 11.4 km, RB Br. canal : 2.4 km RB & LB D Canal : 34.1 km RB & LB Field Canal : 81.9 km	Construction & reconstruction of 10 (6 for RB & 4 for LB) pumping stations for lift irrigation including supply of 17 water pumps and construction of 8 pump houses, 11,900 m of rising mains and 41.0 km of concrete lined irrigation canals

Source : JICA Survey Team and JBIS Pilot Study on Agricultural and Rural Rehabilitation in the North East and North Central Region of Sri Lanka, Final Report Supporting (1), Short Listed Scheme Outline, May 2004

Breakdown of Cost for Individual Scheme

Item No : BC/IS-01
 Scheme : Neelabemma Scheme-Improvement of Sub-System (Phase-I:Existing)
 Province : Northern West Province
 District : Puttalam
 DS Division : Navagathagama

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Site clearing	ha			0		UP-1
1.2	Clearing of top soil	m3	117		0		UP-2
1.3	Excavation & backfilling	m3	730		0		UP-5
1.4	Other works	LS			0		
	sub-total				0		
2.	Canal rehabilitation						
2.1	Concrete lining for field canal	m	12,639	4,800	60,667,200	12km x 50%	UP-9
2.2	Improvement feeder canal	m	2,665	3,000	7,995,000		UP-7
2.3	Improvement of related structures in MC and field canal	ha	86,492	180	15,568,524	(UP-11 & UP-12 / 10ha)	UP-11/UP-12
2.4	Other works	LS		1	6,866,220	10% of sum of 2	
	sub-total				91,096,944		
3.	Miscellaneous Works	LS		1	9,109,694	10% of 1+2	
	Total				100,206,638		
	Round				100,207,000	per scheme	

Breakdown of Cost for Individual Scheme

Item No : BC/IS-02
 Scheme : Rehabilitation of Welimaruthamadhu Tank
 Province : Northern Province
 District : Mannar
 DS Division : Manthai West

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Rip rap protection for tank	m3	450	2,500	1,125,000	1000m	UP-3-1
1.2	Spill rehabilitation (reinforcement concrete)	m3	36,807	270	9,937,821	160m long	UP-8
1.3	Restoration of sluice	LS		1	5,000,000		
1.4	Other works	LS		1	3,212,564	20% of sum of 1	NP-08
	sub-total				19,275,385		
2.	Canal rehabilitation						
2.1	Concrete lining for supply canal	m	12,780	3,200	40,896,000		UP-09
2.2	Gravel bedding for road	m	599	3,200	1,916,800		UP-4
2.3	Improvement of related structures in MC and field canal	nos	437,286	16	6,996,576	(UP-11 & UP-12 / 0.2 km)	UP-11/UP-12
2.4	Improvement feeder canal	m	2,665	7,500	19,987,500	50% of proposal	
2.5	Other works	LS		1	2,140,640	5% of sum of 2	
	sub-total				71,937,516		
3.	Minor tank rehabilitation						
	Type Tmi-H	no	2,097,219	15	31,458,280		NP-01
	Miscellaneous Works	LS		1	1,572,914	5% of 3	
	sub-total				33,031,194		
	Total				124,244,094		
	Round				124,244,000	per scheme	

Breakdown of Cost for Individual Scheme

Item No : BC/IS-03
 Scheme : Kurai Tank Augmentation and Parangi Aru Development Project
 Province : Northern Province
 District : Mannar
 DS Division : Manthai West

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Kurai Tank rehabilitation						
1.1	Stripping of top soil	m ³	118	15,300	1,805,400		UP-2
1.2	Type T1-CH tank rehabilitation (Rising tank top)	m ³	738	76,500	56,457,000		UP-5
1.3	Cncrete works	m ³	36,807	400	14,722,697		UP-7
1.4	Tank sluice	set	5,000,000	1	5,000,000		DS division
1.5	Other works	LS		1	15,597,019	20% of sum of 1	
	sub-total				91,776,716		
2.	Parangi anicut construction						
2.1	Rock excavation	m ³	1,354	1300	1,760,200		REACE
2.2	Excavation and backfilling	m ³	738	3,000	2,214,000		UP-5
2.3	Type T1-CH rehabilitation (reinforcement concrete)	m ³	36,807	2,337	86,017,358	L=55m, H=1.8m	UP-8
2.4	Radial gated head sluice	set	25,000,000	1	25,000,000		DS division
2.5	Other works	LS		1	22,998,312	20% of sum of 1	
	sub-total				137,989,870		
3.	Supply canal						
3.1	Concrete lining for supply canal	m	12,780	7,500	95,850,000		UP-09
3.2	Gravel bedding for road	m	599	7,500	4,492,500		UP-4
3.3	Improvement of related structures in supply canal	ha	87,457	400	34,982,880	(UP-11 & UP-12 / 5ha)	UP-11/UP-12
3.4	Other works	LS		1	27,065,076	20% of sum of 2	
	sub-total				162,390,456		
4.	Canal rehabilitation						
4.1	Gravel bedding for road	m	599	10,450	6,259,550		UP-4
4.2	Improvement of related structures in MC and field canal	ha	87,457	140	12,244,008	(UP-11 & UP-12 / 5ha)	UP-11/UP-12
4.3	Other works	LS		1	3,700,712	20% of sum of 2	
	sub-total		88,056		22,204,270		
	Total				414,361,312		
	Round				414,361,000	per scheme	

Breakdown of Cost for Individual Scheme

Item No : BC/IS-04
 Scheme : Rehabilitation of Muthayankaddu Tank Irrigation Scheme
 Province : Northern Province
 District : Mullaitivu Range
 DS Division : Nmuthuyankaddu

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Headwork rehabilitation						
1.1	Strengthening of tank bund	m ³	340	60,000	20,400,000		UP-3
1.2	Riprap protection of U/S alope	m ³	5,000	1,000	5,000,000	Estimated by District	
1.3	Repair and reconditioning for spill radial gate	LS			3,000,000	Estimated by District	
1.4	Repair and reconditioning for sluice gate	LS			2,000,000	Estimated by District	
	sub-total				30,400,000		
2.	Rehabilitation of Left Bank Canal System						
2.1	Reconditioning for main canal (earth works)	m ³	391	12,000	4,692,000		UP-6
2.2	Reconditioning for drainage canal (earth works)	m ³	391	10,000	3,910,000		UP-6
2.3	Reconditioning for field canal (earth works)	m ³	391	40,000	15,640,000		UP-6
2.4	Concrete lining for channel	m	4,666	20,000	93,320,000	50% of proposal	UP-7/equi
2.5	Rehabilitation of structures	LS			13,000,000	Estimated by District	
	sub-total				130,562,000		
3.	Rehabilitation of Right Bank Canal System						
3.1	Reconditioning for main canal (earth works)	m ³	391	8,000	3,128,000		UP-6
3.2	Reconditioning for drainage canal (earth works)	m ³	391	6,000	2,346,000		UP-6
3.3	Reconditioning for field canal (earth works)	m ³	391	28,000	10,948,000		UP-6
3.4	Concrete lining for channel	m	4,666	15,000	69,990,000	50% of proposal	UP-7/equi
3.5	Rehabilitation of structures	LS			10,000,000	Estimated by District	
	sub-total				96,412,000		
4.	Right Bank Area						
4.1	Pump House 1 and related facilities rehabilitation	LS			13,426,000	Estimated by District	
4.2	Pump House 2 and related facilities rehabilitation	LS			6,308,000	Estimated by District	
4.3	Pump House 3 and related facilities rehabilitation	LS			20,710,000	Estimated by District	
4.4	Pump House 4 and related facilities rehabilitation	LS			7,767,000	Estimated by District	
4.5	Pump House 5-1 and related facilities rehabilitation	LS			36,784,000	Estimated by District	
4.6	Pump House 5-2 and related facilities rehabilitation (Balance)	LS			19,047,000	Estimated by District	
4.7	Pump House 6 and related facilities rehabilitation	LS			19,364,000	Estimated by District	
4.8	Pump House 7 and related facilities rehabilitation	LS			18,881,000	Estimated by District	
4.9	Pump House 8 and related facilities rehabilitation	LS			11,177,000	Estimated by District	
4.10	Pump House 9 and related facilities rehabilitation	LS			24,879,000	Estimated by District	
4.11	Pump House 10 and related facilities rehabilitation	LS			31,497,000	Estimated by District	
4.12	Pump House 11 and related facilities rehabilitation	LS			15,296,000	Estimated by District	
4.13	Pump House 12 and related facilities rehabilitation	LS			10,439,000	Estimated by District	
	sub-total				235,575,000		
5.	Left Bank Area						
5.1	Pump house 1 for LD farm	LS			28,091,000	Estimated by District	
5.2	Pump house 3 for Block 1-90 acrs	LS			25,318,000	Estimated by District	
5.3	Pump House 4 and related facilities rehabilitation	LS			25,388,000	Estimated by District	
5.4	Pump House 5 and related facilities rehabilitation	LS			18,562,000	Estimated by District	
5.5	Pump House 6 and related facilities rehabilitation	LS			18,859,000	Estimated by District	
	sub-total				116,218,000		
	Total				609,167,000		
	Round				609,167,000		

Breakdown of Cost for Individual Scheme

Item No : BC/IS-05
 Scheme : Rehabilitation of Inginimitiya Scheme
 Province : Northern West Province
 District : Puttalam
 DS Division : Anamaduwa

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Anicut rehabilitation						
1.1	Type T1-C rehabilitation	no			0	Not subject	
	sub-total				0		
2.	Canal rehabilitation						
2.1	Concrete lining for main canal (RB & LB)	m	12,639	17,600	222,446,400	40% of total	UP-09
2.2	Gravel bedding for canal road	m	592	17,600	10,419,200	40% of total	UP-4
2.3	Improvement of related structures in MC and field canal	nos	432,459	20	8,649,180	(UP-11 & UP-12 / 0.5 km)	UP-11/UP-12
2.4	Improvement feeder canal	m	2,665	48,000	127,920,000	40% of proposal	UP-14
2.5	Other works	LS		1	23,286,560	10% of sum of 2	
	sub-total				392,721,340		
3.	Miscellaneous Works	LS		1	19,636,067	5% of 1+2	
	Total				412,357,407		
	Round				412,357,000		

Breakdown of Cost for Individual Scheme

Item No : BC/IS-06
 Scheme : Rehabilitation of Vavunikulam Lift Irrigation Scheme
 Province : Northern Province
 District : Mullaitivu Range
 DS Division : Vavunikulam

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Left Bank Main Canal						
1.1	Balance work of Selvapuram at 1.6 km	LS			17,035,000	Estimated by District	
1.2	Selvapuram at 3.2 km	LS			37,312,000	Estimated by District	
1.3	Balance works for Pandiyankulam of 4.8 km	LS			23,900,000	Estimated by District	
1.4	Karumpuliyian of 5.6 km	LS			52,442,000	Estimated by District	
	sub-total				130,689,000		
2.	Right Bank Main Canal						
2.1	Palinagar at 1.2 km	LS			42,025,000	Estimated by District	
2.2	Yogapuram east of 5.6 km	LS			31,069,000	Estimated by District	
2.3	Barathinagar of 9.2 km	LS			65,923,000	Estimated by District	
2.4	Thirunagar of 10.4 km	LS			23,390,000	Estimated by District	
2.5	Yogapuram west of 13.6 km	LS			59,091,000	Estimated by District	
2.6	Kothampiyakulam of 15.6 km	LS			29,098,000	Estimated by District	
	sub-total				250,596,000		
	Total				381,285,000		
	Round				381,285,000		

(2) Major and Medium Schemes

Scheme Category	No.	Tank Name/Name of Scheme	Province	District	DS Division	Type of Improvement	Cost including OFC field arrangement
Major	1	Vahaneri Tank	EP	Batticaola	KP South (Kiran)	Tank Bund & Canals	46,467,000
Major	2	Yan oya scheme	EP	Trincomalee	Kuchchaweli	Anicut & Canals	17,124,000
Major	3	Mahadivulwewa	EP	Trincomalee	Morawewa		21,874,000
Major	4	Tabbowa	NWP	Puttalam	Karuwalagaswewa	Tank Bund & Canals	17,633,000
Major	5	Manankatiya Tank	NCP	Anuradhapura	Galenbindunuwewa	Tank & Canal System	34,338,000
Total Major Schemes							137,436,000
Medium	1	Borapola Tank	EP	Ampara	Mahaoya	Rehab. of 20 Nos	24,125,000
Medium	2	Tampitiya Tank & Canal System	EP	Ampara	Mahaoya	Tank Bund & Canals	9,038,327
Medium	3	Ethabendiwewa	EP	Trincomalee	Morawewa	Tank Bund & Canals	8,340,951
Medium	4	Andankulam	EP	Trincomalee	Town & Gravets	LB & RB Channel system	13,900,284
Medium	5	Kurankupanchan	EP	Trincomalee	Kinniya	Canal system	12,967,968
Medium	6	Illankanthai Tank	EP	Trincomalee	Muthur	Tank Bund, Canals &	9,318,262
Medium	7	Ullai Kulam	EP	Trincomalee	Muthur	Tank Bund & Canals	13,974,373
Medium	8	Maha Andarawewa Tank	NWP	Puttalam	Nawagattegama	LB Canal System	19,818,883
Medium	9	Kokebe wewa	NCP	Anuradhapura	Kahatagasdigiliya	Tank Bund & Canals	13,078,000
Medium	10	Adampankulam (Vellankulam & Paliyam GND)	NP	Mannar	Manthai West	Augmentation	14,191,171
Medium	11	Maruthamadu Anicut scheme (Pallamadu GND)	NP	Mannar	Manthai West	Anicut & Canals	34,073,418
Medium	12	Periyamadu Irrigation scheme (Periyamadu & Koyanagar GND)	NP	Mannar	Manthai West	Canals	25,145,212
Medium	13	Thatchchanamaruthamadu Irrigation Scheme (Palampiddy GND)	NP	Mannar	Madu	D. Canals, Field canal & Drainage canals	9,195,199
Medium	14	Periya Pandivirichchan Irrigation Scheme (Periya Pandivirichchan)	NP	Mannar	Madu	D. Canals, Field canal & Drainage canals	21,646,134
Medium	15	Mullikulam Irrigation Scheme (Iranai Illuppukulam GND)	NP	Mannar	Madu	D. Canals, Field canal & Drainage canals	12,504,448
Medium	16	Ambalaperumalkulam Tank	NP	Mulattivu	Thurkkai	Canals	14,474,971
Medium	17	Iyankulam Tank	NP	Mulattivu	Thurkkai	Canals	29,543,254
Medium	18	Koddaikuddinakulam Tank	NP	Mulattivu	Thurkkai	Canals	25,460,235
Medium	19	Kollivilankulam Tank	NP	Mulattivu	Thurkkai	Canals	26,039,630
Medium	20	Mallavi Tank	NP	Mulattivu	Thurkkai	Canals	3,415,645
Medium	21	Muruthankulam Tank	NP	Mulattivu	Thurkkai	Canals	18,556,781
Medium	22	Palayamurukandykulam Tank	NP	Mulattivu	Thurkkai	Canals	18,186,701
Medium	23	Tenniyankulam Tank	NP	Mulattivu	Thurkkai	Canals	18,325,952
Medium	24	Therankandal Tank	NP	Mulattivu	Thurkkai	Canals	7,885,705
Medium	25	Maharambai Kulam	NP	Vavuniya	Vavuniya Town	Tank & Canal System	13,390,276
Medium	26	Moonayamadu Tank	NP	Vavuniya	Vavuniya Town		10,460,865
Medium	27	Pampaimadu Tankm	NP	Vavuniya	Vavuniya Town	Canals	14,181,245
Medium	28	Vavuniya Tank	NP	Vavuniya	Vavuniya Town	Canal	20,356,822
Medium	29	Madukanda Irrigation Scheme	NP	Vavuniya	Vavuniya South	Tank & Canal System	16,935,996
Medium	30	Eropothan Irrigation Scheme	NP	Vavuniya	Vavuniya South	Tank & Canal System	5,838,004
Medium	31	Lunugala yoda Tank	UP	Monaragala	Badalkumbura	Tank & Canal System	4,047,175
Medium	32	Karadadara tank	UP	Monaragala	Siyambalanduwa	Tank & Canal System	367,925
Total Medium Schemes							488,784,814

Breakdown of Cost for Major Scheme

Item No : BC/Ma-01
 Scheme : Rehabilitation of Vahaneri Tank
 Province : EP
 District : Batticaola
 DS Division : K.S. South

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Site clearing	ha	24,069	0.13	3,129		UP-1
1.2	Excavation top soil	m ³	99	2,600	258,148		UP-2
1.3	Slope protection	m ³	379	3,250	1,230,580		UP-3-1
1.4	Other works	LS			149,186	10% of sum of 1	
	sub-total				1,641,043		
2.	Main canal rehabilitation					65 km in total	
2.1	Desilting from main canal	m ³	329	20,000	6,579,919	1m ³ /m x 20km	UP-6
2.2	Concrete lining	m	10,753	1,000	10,753,372		UP-9
2.3	Other works	LS		1	866,665	5% of sum of 3	
	sub-total				18,199,956		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	323	19,814,628		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	323	6,811,556		UP-21
	sub-total				26,626,184		
	Total				46,467,183		
	Round				46,467,000	per scheme	

Item No : BC/Ma-02
 Scheme : Yan Oya Scheme
 Province : EP
 District : Torincomalee
 DS Division : Kuchachaweri

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1							
1.2							
1.3							
1.4							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Main canal lining	m	10,753	600	6,452,023		UP-9
2.2	Feeder canal rehabilitation	m	2,268	600	1,360,563	200m x 3 palces	UP-14
2.3	Other works	LS		1	1,562,517	20% of sum of 3	
	sub-total				9,375,104		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	94	5,766,486		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	94	1,982,310		UP-21
	sub-total				7,748,797		
	Total				17,123,900		
	Round				17,124,000	per scheme	

Breakdown of Cost for Major Scheme

Item No : BC/Ma-03
 Scheme : Mahadivulwewa scheme
 Province : EP
 District : Torincomalee
 DS Division : Morawewa

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1							
1.2							
1.3							
1.4							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Main canal lining	m	10,753	1,000	10,753,372	2km in total	UP-9
2.2	Feeder canal rehabilitation	m	2,268	1,600	3,628,169	200m x 8 palces	UP-14
2.3	Other works	LS		1	2,876,308	20% of sum of 3	
	sub-total				17,257,849		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	56	3,435,354		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	56	1,180,951		UP-21
	sub-total				4,616,304		
	Total				21,874,153		
	Round				21,874,000	per scheme	

Item No : BC/Ma-04
 Scheme : Tobbowa scheme
 Province : NWP
 District : Puttalam
 DS Division : Morawewa

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Site clearing	ha	28,289	0.13	3,678		UP-1
1.2	Excavation & backfilling	m3	730	8,000	5,838,819		UP-5
1.3	Slope protection	m3	445		0		UP-3-1
1.4	Other works	LS			584,250	10% of sum of 1	
	sub-total				6,426,746		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	387	15,000	5,800,249		UP-6
2.2	Field canal rehabilitation including structure	m	2,665	2,400	6,396,517	20% of 12km	UP-14
2.3	Drainage canala excavation	m3	219	3,000	656,867	30% of UP-5	
2.4	Other works	LS		1	1,291,423	20% of sum of 2	
	sub-total				14,145,057		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,102	36	2,595,677		UP-19
3.2	Drainage canal construction for OFC	ha	24,786	36	892,300		UP-21
	sub-total				3,487,978		
	Total				17,633,035		
	Round				17,633,000	per scheme	

Breakdown of Cost for Major Scheme

Item No : BC/Ma-05
 Scheme : Manakatiya Tank scheme
 Province : NCP
 District : Anuradhapura
 DS Division : Galenbindunuwewa

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling	m3	786	500	392,829		UP-5
1.2	Re-inforced concrete, incl. form etc.	m3	39,184	30	1,175,508		UP-5
1.3	Sluice gate	2	500,000	2	1,000,000		
1.4	Other works	LS			513,667	20% of sum of 1	
	sub-total				3,082,003		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	416	10,000	4,162,494		UP-6
2.2	Field canal rehabilitation including structure	m	2,869		0		UP-14
2.3	Drainage canala excavation	m3	219	15,000	3,284,336	30% of UP-5	
2.4	Other works	LS		1	1,489,366	20% of sum of 2	
	sub-total				8,936,195		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	77,615	214	16,609,640		UP-19
3.2	Drainage canal construction for OFC	ha	26,681	214	5,709,796		UP-21
	sub-total				22,319,436		
	Total				34,337,634		
	Round				34,338,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-01
 Scheme : Borapola Tank scheme
 Province : EP
 District : Ampara
 DS Division : Mahaoya

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
2.	Main canal rehabilitation					3 km in total	
2.1	Desilting from main canal	m3	329	3,000	986,988	1m3/m x 3km	UP-6
2.2	Concrete lining	m	10,753	1,500	16,130,058	3km x 50%	UP-9
2.3	Canal structure	no	183,971	20	3,679,420		UP-11/UP-12
2.4	Other works	LS			855,852	5% of sum of 3	
	sub-total				21,652,318		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	30	1,840,368		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	30	632,652		UP-21
	sub-total				2,473,020		
	Total				24,125,338		
	Round				24,125,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-02
 Scheme : Tampitiya Tank & Canal System
 Province : EP
 District : Ampara
 DS Division : Mahaoya

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Site clearing	ha	24,069	1.00	24,069		UP-1
1.2	Excavation top soil	m3	99	2,000	198,576		UP-2
1.3	Slope protection	m3	379	2,500	946,600		UP-3-1
1.4	Other works	LS	1		116,924	10% of sum of 1	
	sub-total				1,286,168		
2.	Canal rehabilitation						
2.1	Main canal lining	m	10,753	60	645,202		UP-9
2.2	Feeder canal rehabilitation	m	2,268	55	124,718	200m x 3 palces	UP-14
2.3	Drainage canala excavation	m3	186	3,000	558,872	30% of UP-5	
2.4	Other works	LS		1	240,815	20% of sum of 2	
	sub-total				1,569,608		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	75	4,600,920		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	75	1,581,631		UP-21
	sub-total				6,182,551		
	Total				9,038,327		
	Round				9,038,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-03
 Scheme : Ethabendiwewa scheme
 Province : EP
 District : Trincomalee
 DS Division : Morawewa

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Site clearing	ha	24,069	1.00	24,069		UP-1
1.2	Excavation & backfilling	m3	621	10,000	6,209,694		UP-5
1.3	Slope protection	m3	0	2,500	0		UP-3-1
1.4	Other works	LS	1		623,376	10% of sum of 1	
	sub-total				6,857,139		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	329	4,000	1,315,984	1m3/m	UP-6
2.2	Main canal lining	m	10,753	400	4,301,349	2000m x 20%	UP-9
2.3	Other works	LS		1	215,067	5% of sum of 2	
2.4	sub-total				5,832,400		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	18	1,104,221		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	18	379,591		UP-21
	sub-total				1,483,812		
	Total				8,340,951		
	Round				8,341,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-04
 Scheme : Andankulam
 Province : EP
 District : Trincomalee
 DS Division : Towan & Gravets

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling	m3	621	500	310,485		UP-5
1.2	Re-inforced concrete, incl. form etc.	m3	30,970	30	929,100		UP-8
1.3	Sluice gate	set	500,000	1	500,000		
1.4	Other works	LS			347,917	20% of sum of 1	
	sub-total				2,087,502		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	329	10,000	3,289,960		UP-6
2.2	Main canal lining	m	10,753	200	2,150,674	1000m x 20%	UP-9
2.3	Other works	LS		1	272,032	5% of sum of 2	
	sub-total				5,712,666		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	74	4,539,574		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	74	1,560,542		UP-21
	sub-total				6,100,117		
	Total				13,900,284		
	Round				13,900,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-05
 Scheme : Kurankupanchan scheme
 Province : EP
 District : Trincomalee
 DS Division : Kinniya

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling	m3	621	7,500	4,657,270	30% of 25000m3	UP-5
1.2	Other works	LS			931,454	20% of sum of 1	
	sub-total				5,588,724		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	621	3,000	1,862,908		UP-6
2.2	Main canal lining	m	10,753	400	4,301,349	1000m x 20%	UP-9
2.3	Other works	LS		1	308,213	5% of sum of 2	
	sub-total				6,472,470		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	11	674,802		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	11	231,972		UP-21
	sub-total				906,774		
	Total				12,967,968		
	Round				12,968,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-06
 Scheme : Illankanthai Tank
 Province : EP
 District : Trincomalee
 DS Division : Muthur

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling	m3	621	500	310,485		UP-5
1.2	Re-inforced concrete, incl. form etc.	m3	30,970	66	2,044,020	for 60m spillway	UP-8
1.3	Concrete 1:3:6 (40) include. necessary works	m3	14,542	180	2,617,613	- do -	UP-7
1.4	Other works	LS			470,901	20% of sum of 1	
	sub-total				5,443,019		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	329	7,400	2,434,570	1 m3/m	UP-6
2.2	Other works	LS		1	121,729	5% of sum of 2	
	sub-total				2,556,299		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	16	981,530		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	16	337,415		UP-21
	sub-total				1,318,944		
	Total				9,318,262		
	Round				9,318,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-07
 Scheme : Ullai Kulam
 Province : EP
 District : Trincomalee
 DS Division : Muthur

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling	m3	621	500	310,485		UP-5
1.2	Re-inforced concrete, incl. form etc.	m3	30,970	36	1,114,920	for 30m spillway	UP-8
1.3	Concrete 1:3:6 (40) include. necessary works	m3	14,542	90	1,308,807	- do -	UP-7
1.4	Other works	LS		1	285,081	20% of sum of 1	
	sub-total				3,019,292		
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	329	11,500	3,783,454	1 m3/m	UP-6
2.2	Main canal lining	m	10,753	560	6,021,888	2800m x 20%	UP-9
2.3	Other works	LS		1	490,267	5% of sum of 2	
	sub-total				10,295,609		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	61,346	8	490,765		UP-19
3.2	Drainage canal construction for OFC	ha	21,088	8	168,707		UP-21
	sub-total				659,472		
	Total				13,974,373		
	Round				13,974,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-08
 Scheme : Maha Andarawewa Tank
 Province : NWP
 District : Puttalam
 DS Division : Nawagattegama

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling						
1.2	Re-inforced concrete, incl. form etc.						
1.3	Concrete 1:3:6 (40) include. necessary works						
1.4	Other works						
	sub-total						
2.	Canal rehabilitation						
2.1	Rehabilitation of existing structures	place	50,000	89	4,450,000	89 nos. various structures	
2.2	Main canal lining	place	100,000	144	14,400,000	144 parts	
	sub-total				18,850,000		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,102	10	721,022		UP-19
3.2	Drainage canal construction for OFC	ha	24,786	10	247,861		UP-21
	sub-total				968,883		
	Total				19,818,883		
	Round				19,819,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-09
 Scheme : Kokebe wewa
 Province : NCP
 District : Anuradhapura
 DS Division : Kahatagasdigiliya

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Excavation & backfilling	m3					
1.2	Re-inforced concrete, incl. form etc.	m3					
1.3	Concrete 1:3:6 (40) include. necessary works	m3					
1.4	Other works	LS					
	sub-total						
2.	Canal rehabilitation						
2.1	Desilting from main canal	m3	416	10,000	4,162,494	estimated	UP-6
2.2	Main canal lining	m	13,605	500	6,802,643	- do -	UP-9
2.3	Other works	LS		1	548,257	5% of sum of 2	
	sub-total				11,513,394		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	77,615	15	1,164,227		UP-19
3.2	Drainage canal construction for OFC	ha	26,681	15	400,219		UP-21
	sub-total				1,564,446		
	Total				13,077,841		
	Round				13,078,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-10
 Scheme : Adampankulam (Vellankulam & Paliam GND)
 Province : NP
 District : Mannar
 DS Division : Manthai West

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank bund rehabilitation						
1.1	Slope protection for tank bund	m3	450	12,000	5,400,000	2400m x 5m x 1m	UP-3-1
1.2	Re-inforced concrete, incl. form etc.						
1.3	Concrete 1:3:6 (40) include. necessary works						
1.4	Other works				540,000	10% of sum of 1	
	sub-total				5,940,000		
2.	Canal rehabilitation						
2.1	Supply canal lining	m	12,780	400	5,112,000	2000m x 20%	UP-9
2.2	Canal structure	no	218,643	10	2,186,430		UP-11/UP-12
2.3	Other works	LS		1	364,922	5% of sum of 2	
	sub-total				7,663,352		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	6	437,442		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	6	150,377		UP-21
	sub-total				587,819		
	Total				14,191,171		
	Round				14,191,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-11
 Scheme : Maruthamadu Anicut scheme (Pallamadu GND)
 Province : NP
 District : Mannar
 DS Division : Manthai West

Remarks:At present no cultivation under this scheme

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Anicut rehabilitation						
1.1	Excavation & backfilling	m3	738	510	376,380	15m long	UP-5
1.2	Re-inforced concrete, incl. form etc.	m3	36,807	75	2,760,506		UP-8
1.3	Concrete 1:3:6 (40) include. necessary works	m3	17,283	150	2,592,450		UP-7
1.4	Feeder tank rehabilitation	nos	2,097,219	5	10,486,093		Tmi-H
1.5	Other works				810,771	10% of sum of 1	
	sub-total				17,026,200		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	7,500	2,932,500	1 m3/m	UP-6
2.1	Main canal lining	m	12,780	750	9,585,000	7500m x 10%	UP-9
2.2	Canal structure	no	218,643	12	2,623,716		UP-11/UP-12
2.3	Other works	LS		1	1,514,122	10% of sum of 2	
	sub-total				16,655,338		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	4	291,628		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	4	100,251		UP-21
	sub-total				391,880		
	Total				34,073,418		
	Round				34,073,000	per scheme	

Remarks:At present no cultivation under this scheme

Breakdown of Cost for Medium Scheme

Item No : BC/Me-12
 Scheme : Periyamadu Irrigation scheme (Periyamadu & Koyanagar GND)
 Province : NP
 District : Mannar
 DS Division : Manthai West

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	8,000	3,128,000	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	800	10,224,000	8000m x 10%	UP-9
2.3	Drainage canala excavation	m3	221	10,000	2,214,000	30% of UP-5, 5000m	
2.5	Other works	LS		1	3,113,200	20% of sum of 2	
	sub-total				18,679,200		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	66	4,811,866		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	66	1,654,146		UP-21
	sub-total				6,466,012		
	Total				25,145,212		
	Round				25,145,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-13
 Scheme : Thatchchanamaruthamadu Irrigation Scheme (Palampiddy GND)
 Province : NP
 District : Mannar
 DS Division : Madu

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	2,000	782,000	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	400	5,112,000	2000m x 20%	UP-9
2.3	Drainage canala excavation	m3	221	8,000	1,771,200	30% of UP-5, 4000m	
2.5	Other works	LS		1	550,300	5% of sum of 2	
	sub-total				8,215,500		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	10	729,071		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	10	250,628		UP-21
	sub-total				979,699		
	Total				9,195,199		
	Round				9,195,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-14
 Scheme : Periya Pandivirichchan Irrigation Scheme (Periya Pandivirichchan)
 Province : NP
 District : Mannar
 DS Division : Madu

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	1,500	586,500	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	400	5,112,000	2000m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	3,000	8,084,906		UP-14
2.4	Drainage canala excavation	m3	221	10,000	2,214,000	30% of UP-5, 5000m	
2.5	Other works	LS		1	3,199,481	20% of sum of 2	
	sub-total				19,196,887		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	25	1,822,677		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	25	626,571		UP-21
	sub-total				2,449,247		
	Total				21,646,134		
	Round				21,646,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-15
 Scheme : Mullikulam Irrigation Scheme (Iranai Illuppukulam GND)
 Province : NP
 District : Mannar
 DS Division : Madu

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	1,500	586,500	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	300	3,834,000	1500m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	2,000	5,389,937	10000m x 20%	UP-14
2.4	Drainage canala excavation	m3	221	4,000	885,600	30% of UP-5, 2000m	
2.5	Other works	LS		1	534,802	5% of sum of 2	
	sub-total				11,230,839		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	13	947,792		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	13	325,817		UP-21
	sub-total				1,273,608		
	Total				12,504,448		
	Round				12,504,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-16
 Scheme : Ambalaperumalkulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	1,600	625,600	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	320	4,089,600	1600m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	1,600	4,311,950	8000m x 20%	UP-14
2.4	Drainage canala excavation	m3	0		0		
2.5	Other works	LS		1	451,357	5% of sum of 2	
	sub-total				9,478,507		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	51	3,718,260		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	51	1,278,204		UP-21
	sub-total				4,996,464		
	Total				14,474,971		
	Round				14,475,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-17
 Scheme : Iyankulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	1,500	586,500	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	300	3,834,000	1500m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	5,200	14,013,837	26000m x 20%	UP-14
2.4	Drainage canala excavation	m3	221	8,000	1,771,200	4000m	
2.5	Other works	LS		1	1,010,277	5% of sum of 2	
	sub-total				21,215,814		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	85	6,197,100		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	85	2,130,340		UP-21
	sub-total				8,327,440		
	Total				29,543,254		
	Round				29,543,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-18
 Scheme : Kodkaikuddinakulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	1,810	707,710	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	362	4,626,360	1810m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	940	2,533,270	4700m x 20%	UP-14
2.4	Structure	no	218,643	45	9,838,935	various structures	UP-11&12
2.5	Other works	LS		1	3,541,255	20% of sum of 2	
	sub-total				21,247,530		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	43	3,135,004		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	43	1,077,701		UP-21
	sub-total				4,212,705		
	Total				25,460,235		
	Round				25,460,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-19
 Scheme : Kollvilankulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	6,500	2,541,500	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	1,300	16,614,000	6500m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	0		0		
2.4	Structure	no	218,643	10	2,186,430	various structures	UP-11&12
2.5	Other works	LS		1	1,067,097	5% of sum of 2	
	sub-total				19,867,527		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	63	4,593,145		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	63	1,578,958		UP-21
	sub-total				6,172,103		
	Total				26,039,630		
	Round				26,040,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-20
 Scheme : Mallavi Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.4							
1.5							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	3,000	1,173,000	1 m3/m	UP-6
2.2	Main canal lining	m	0		0		
2.3	Field canal rehabilitation including structure	m	0		0		
2.4	Structure	no	288,174	3	864,522	Culvert	UP-11&12
2.5	Other works	LS		1	101,876	5% of sum of 2	
	sub-total				966,398		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	25	1,822,677		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	25	626,571		UP-21
	sub-total				2,449,247		
	Total				3,415,645		
	Round				3,416,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-21
 Scheme : Maruthankulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Sluice	set	1,000,000	1	1,000,000		
1.2	Other works	LS		1	200,000	20% of sum of 1	
	sub-total				1,200,000		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	2,000	782,000	1 m3/m	UP-6
2.2	Main canal lining	m	12,780	400	5,112,000	2000m x 20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	700	1,886,478	3500m x 20%	UP-14
2.4	Structure	no	218,643	11	2,405,073	various structures	UP-11&12
2.5	Other works	LS		1	509,278	5% of sum of 2	
	sub-total				10,694,829		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	68	4,957,680		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	68	1,704,272		UP-21
	sub-total				6,661,952		
	Total				18,556,781		
	Round				18,557,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-22
 Scheme : Palayamurukandykulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Raising spill (with re-inforcement concrete)	m3	36,807	18	662,521	48m long	UP-8
1.2	Other works	LS		1	132,504	20% of sum of 1	
	sub-total				795,026		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3			0		
2.2	Main canal lining	m	12,780	260	3,322,800	1300mx20%	UP-9
2.3	Field canal rehabilitation including structure	m	2,695	300	808,491	1500mx20%	UP-14
2.4	Structure	no	218,643	22	4,810,146	various structures	UP-11&12
2.5	Other works	LS		1	1,788,287	20% of sum of 2	
	sub-total				10,729,724		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	68	4,957,680		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	68	1,704,272		UP-21
	sub-total				6,661,952		
	Total				18,186,701		
	Round				18,187,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-23
 Scheme : Tenniyankulam Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3					
2.2	Main canal lining	m					
2.3	Field canal rehabilitation including structure	m	2,695	1,200	3,233,962	6000mx20%	UP-14
2.4	Structure	no	218,643	39	8,527,077	various structures (30%)	UP-11&12
2.5	Other works	LS		1	2,352,208	20% of sum of 2	
	sub-total				14,113,247		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	43	3,135,004		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	43	1,077,701		UP-21
	sub-total				4,212,705		
	Total				18,325,952		
	Round				18,326,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-24
 Scheme : Therankandal Tank
 Province : NP
 District : Mulattivu
 DS Division : Thurkkai

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
	sub-total				0		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3					
2.2	Main canal lining	m	12,780	300	3,834,000	1500mx20%	UP-9
2.3	Field canal rehabilitation including structure	m					
2.4	Structure	no	288,174	1	288,174	Over crossing	UP-12
2.5	Other works	LS		1	824,435	20% of sum of 2	
	sub-total				4,946,609		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	30	2,187,212		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	30	751,885		UP-21
	sub-total				2,939,096		
	Total				7,885,705		
	Round				7,886,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-25
 Scheme : Maharambai Kulam
 Province : NP
 District : Vavuniya
 DS Division : Vavuniya Town

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Raising spill (with re-reinforcement concrete)	m3	36,807	23	828,152	60m long	UP-8
1.2	Other works	LS		1	165,630	20% of sum of 1	
	sub-total				993,782		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	2,000	782,000	2000m	UP-6
2.2	D canal lining	m	12,780	400	5,112,000	2000mx20%	UP-9
2.3	Drainage canala excavation	m3	221	5,000	1,107,000	2500m	
2.4	Structure	no	218,643	10	2,186,430	Various structures	UP-11&12
2.5	Other works	LS		1	1,837,486	20% of sum of 2	
	sub-total				11,024,916		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	14	1,020,699		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	14	350,880		UP-21
	sub-total				1,371,578		
	Total				13,390,276		
	Round				13,390,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-26
 Scheme : Moonayamadu Tank
 Province : NP
 District : Vavuniya
 DS Division : Vavuniya Town

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Raising spill (with re-reinforcement concrete)	m3	36,807	75	2,760,506	100m long	UP-8
1.2	Other works	LS		1	552,101	20% of sum of 1	
	sub-total				3,312,607		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	2,000	782,000	1500m	UP-6
2.2	Main canal lining	m	12,780	300	3,834,000	1500mx20%	UP-9
2.3	Drainage canala excavation	m3	221	4,000	885,600	2000m	UP-5 x 30%
2.4	Structure	no					
2.5	Other works	LS		1	275,080	5% of sum of 2	
	sub-total				5,776,680		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	14	1,020,699		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	14	350,880		UP-21
	sub-total				1,371,578		
	Total				10,460,865		
	Round				10,461,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-27
 Scheme : Pampaimadu Tankm
 Province : NP
 District : Vavuniya
 DS Division : Vavuniya Town

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Spillway improvement	m3	391	4,000	1,564,000	2000m long excavation	UP-6
1.2	Other works	LS		1	312,800	20% of sum of 1	
	sub-total				1,876,800		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3	391	2,000	782,000	2000m	UP-6
2.2	Main canal lining	m	12,780	400	5,112,000	2000mx20%	UP-9
2.3	Drainage canala excavation	m3	221	8,000	1,771,200	4000m	UP-5 x 30%
2.4	Field canal rehabilitation including structure	m	2,695	500	1,347,484	2500mx20%	
2.5	Other works	LS		1	450,634	5% of sum of 2	
	sub-total				9,463,318		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	29	2,114,305		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	29	726,822		UP-21
	sub-total				2,841,127		
	Total				14,181,245		
	Round				14,181,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-28
 Scheme : Vavuniya Tank
 Province : NP
 District : Vavuniya
 DS Division : Vavuniya Town

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	Excavation of top soil	m3	118	2,000	236,000		UP-2
1.2	Tank bund formation	m3	430	10,000	4,302,241		UP-3
1.3	Spillway improvement (reinforcement concrete)	m3	36,807	56	2,070,379	150m long, 0.5m rising	UP-8
1.2	Other works	LS		1	330,431	5% of sum of 1	
	sub-total				6,939,051		
2.	Canal rehabilitation						
2.1	Desilting of main canal	m3					
2.2	Structure	no	218,643	25	5,466,075	various structures	UP-11&12
2.3	Drainage canala excavation	m3	221	4,000	885,600	2000m	UP-5 x 30%
2.4	Field canal rehabilitation including structure	m	2,695	1,000	2,694,969	5000mx20%	UP-14
2.5	Other works	LS		1	452,332	5% of sum of 2	
	sub-total				9,498,976		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	40	2,916,282		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	40	1,002,513		UP-21
	sub-total				3,918,795		
	Total				20,356,822		
	Round				20,357,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-29
 Scheme : Madukanda Irrigation Scheme
 Province : NP
 District : Vavuniya
 DS Division : Vavuniya South

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.2							
2.	Canal rehabilitation						
2.1	Desilting of D canal	m3	391	1,500	586,500	1500m	UP-6
2.2	Main canal lining	m	12,780	300	3,834,000	1500mx20%	UP-9
2.3	Drainage canala excavation	m3	221	9,000	1,992,600	6000m	UP-5 x 30%
2.4	Field canal rehabilitation including structure	m	2,695	400	1,077,987	2000mx20%	UP-14
2.5	Structure	no	218,643	25	5,466,075		UP-11&12
2.6	Other works	LS		1	647,858	5% of sum of 2	
	sub-total				13,605,020		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	34	2,478,840		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	34	852,136		UP-21
	sub-total				3,330,976		
	Total				#REF!		
	Round				#REF!	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-30
 Scheme : Eropothan Irrigation Scheme
 Province : NP
 District : Vavuniya
 DS Division : Vavuniya South

No.	Description of Works	Unit	Unit Price (Rs)	Q'ty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1							
1.2							
1.3							
1.2							
2.	Canal rehabilitation						
2.1	Desilting of D canal	m3					
2.2	Main canal lining	m					
2.3	Drainage canala excavation	m3	221	4,000	885,600	2000m	UP-5 x 30%
2.4	Field canal rehabilitation including structure	m	2,695	300	808,491	1500mx20%	UP-14
2.5	Structure	no	218,643	10	2,186,430		UP-11&12
2.6	Other works	LS		1	194,026	5% of sum of 2	
	sub-total				4,074,547		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	72,907	18	1,312,327		UP-19
3.2	Drainage canal construction for OFC	ha	25,063	18	451,131		UP-21
	sub-total				1,763,458		
	Total				5,838,004		
	Round				5,838,000	per scheme	

Breakdown of Cost for Medium Scheme

Item No : BC/Me-31
 Scheme : Lunugala yoda Tank
 Province : UP
 District : Monaragala
 DS Division : Badalkumbura

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	to be done by RAP						
1.2							
1.3							
1.2							
2.	Canal rehabilitation						
2.1	to be done by RAP						
2.2							
2.3							
2.4							
2.5							
2.6							
	sub-total				0		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	54,168	55	2,979,240		UP-19
3.2	Drainage canal construction for OFC	ha	19,417	55	1,067,935		UP-21
	sub-total				4,047,175		
	Total				4,047,175		

Breakdown of Cost for Medium Scheme

Item No : BC/Me-32
 Scheme : Karadadara tank
 Province : UP
 District : Monaragala
 DS Division : Siyambalanduwa

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Tank rehabilitation						
1.1	to be done by RAP						
1.2							
1.3							
1.2							
2.	Canal rehabilitation						
	to be done by RAP						
	sub-total				0		
3.	Field canal arrangement for OFC in Yala						
3.1	Field canal arrangement	ha	54,168	5	270,840		UP-19
3.2	Drainage canal construction for OFC	ha	19,417	5	97,085		UP-21
	sub-total				367,925		
	Total				367,925		

(3) **Breakdown of Lamp Sum Cost for Minor Tank Rehabilitation by Province**

Breakdown of Lamp Sum Price for Minor Tank Rehabilitation

ItemNo : EP-01
 Item : Rehabilitation of Minor Tank / Anicut, Type : Tmi-H in EP
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	99	100	9,929		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	362	360	130,320		UP-3
1.3	Excavation & backfilling	m3	621	300	186,291		UP-5
1.4	Other works	LS		1	19,622	10% of 1.1+1.2	
	sub-total				346,162		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	14,542	27	395,542		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	30,970	19	589,669		UP-8
2.3	Main canal lining	m	6,452	30	193,560		UP-9-1
2.4	Other works	LS		1	117,877	10% of 1.1+1.2	
	sub-total				1,296,648		
3.	Miscellaneous Works	LS		1	164,281	10% of 1+2	
					1,807,091		
	Round				1,807,000	per number	

ItemNo : EP-02
 Item : Rehabilitation of Minor Tank / Anicut, Type : Tmi-CH in EP
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	99	100	9,929		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	362	360	130,320		UP-3
1.3	Excavation & backfilling for tank	m3	621	200	124,194		UP-5
1.4	Excavation & backfilling for main canal	m3	621	360	223,549		UP-4
1.5	Other works	LS		1	23,348	10% of 1.1+1.2	
	sub-total				511,340		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	14,542	27	392,634		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	30,970	19	588,430		UP-8
2.3	Main canal lining	m	6,452	1,030	6,645,560		UP-9-1
2.4	Other works	LS		1	762,662	10% of 1.1+1.2	
	sub-total				8,389,286		
3.	Miscellaneous Works	LS		1	890,063	10% of 1+2	
					9,790,689		
	Round				9,791,000	per number	

ItemNo : EP-03
 Item : Rehabilitation of Minor Tank / Anicut, Type : Tmi-C in EP
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	99	0	0		UP-2
1.2	Excavation & backfilling for tank	m3	362	0	0		UP-3
1.3	Excavation & backfilling for tank	m3	621	0	0		UP-5
1.4	Excavation & backfilling for main canal	m3	621	360	223,549		UP-4
1.5	Other works	LS		1	22,355	10% of 1.1+1.2	
	sub-total				245,904		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	14,542	0	0		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	30,970	0	0		UP-8
2.3	Main canal lining	m	6,452	1,000	6,452,000		UP-9-1
2.4	Other works	LS		1	645,200	10% of 1.1+1.2	
	sub-total				7,097,200		
3.	Miscellaneous Works	LS		1	734,310	10% of 1+2	
					8,077,414		
	Round				8,077,000	per number	

Breakdown of Lamp Sum Price for Minor Tank Rehabilitation

Item No : NCP-01
 Item : Rehabilitation of Minor Tank / Anicut, Type : Tmi-H in NCP
 Province : North Central Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	126	100	12,562		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	458	360	164,882		UP-3
1.3	Excavation & backfilling	m3	786	300	235,697		UP-5
1.4	Other works	LS		1	24,826	10% of 1.1+1.2	
	sub-total				437,968		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	18,399	27	500,455		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	39,184	19	746,056		UP-8
2.3	Main canal lining	m	8,163	30	244,890		UP-9-1
2.4	Other works	LS		1	149,140	10% of 1.1+1.2	
	sub-total				1,640,540		
3.	Miscellaneous Works	LS		1	207,851	10% of 1+2	
					2,286,359		
	Round				2,286,000	per number	

Item No : NCP-02
 Item : Rehabilitation of Minor Tank / Anicut, Type : Tmi-HC in NCP
 Province : North Central Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	126	100	12,562		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	458	360	164,882		UP-3
1.3	Excavation & backfilling for tank	m3	786	200	157,131		UP-5
1.4	Excavation & backfilling for main canal	m3	786	360	282,837		UP-4
1.5	Other works	LS		1	29,540	10% of 1.1+1.2	
	sub-total				646,952		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	18,399	27	496,775		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	39,184	19	744,488		UP-8
2.3	Main canal lining	m	8,163	1,030	8,407,890		UP-9-1
2.4	Other works	LS		1	964,915	10% of 1.1+1.2	
	sub-total				10,614,068		
3.	Miscellaneous Works	LS		1	1,126,102	10% of 1+2	
					12,387,123		
	Round				12,387,000	per number	

Item No : NCP-03
 Item : Rehabilitation of Minor Tank / Anicut, Type : Tmi-C in NCP
 Province : North Central Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	126	0	0		UP-2
1.2	Earth Works	m3	458	0	0		UP-3
1.3	Excavation & backfilling for tank	m3	786	0	0		UP-5
1.4	Excavation & backfilling for main canal	m3	786	360	282,837		UP-4
1.5	Other works	LS		1	28,284	10% of 1.1+1.2	
	sub-total				311,121		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	18,399	0	0		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	39,184	0	0		UP-8
2.3	Main canal lining	m	8,163	1,000	8,163,000		UP-9-1
2.4	Other works	LS		1	816,300	10% of 1.1+1.2	
	sub-total				8,979,300		
3.	Miscellaneous Works	LS		1	929,042	10% of 1+2	
					10,219,463		
	Round				10,219,000	per number	

Breakdown of Lamp Sum Price for Minor Tank Rehabilitation

Item No : NWP-01
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-H in NWP
 Province : North West Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	117	100	11,670		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	425	360	153,171		UP-3
1.3	Excavation & backfilling	m3	730	300	218,956		UP-5
1.4	Other works	LS		1	23,063	10% of 1.1+1.2	
	sub-total				406,859		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	17,092	27	464,908		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	36,400	19	693,063		UP-8
2.3	Main canal lining	m	7,583	30	227,490		UP-9-1
2.4	Other works	LS		1	138,546	10% of 1.1+1.2	
	sub-total				1,524,007		
3.	Miscellaneous Works	LS		1	193,087	10% of 1+2	
					2,123,953		
	Round				2,124,000	per number	

Item No : NWP-02
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-HC in NWP
 Province : North West Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	117	100	11,670		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	425	360	153,171		UP-3
1.3	Excavation & backfilling for tank	m3	730	200	145,970		UP-5
1.4	Excavation & backfilling for main canal	m3	730	360	262,747		UP-4
1.5	Other works	LS		1	27,442	10% of 1.1+1.2	
	sub-total				601,000		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	17,092	27	461,489		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	36,400	19	691,607		UP-8
2.3	Main canal lining	m	7,583	1,030	7,810,490		UP-9-1
2.4	Other works	LS		1	896,359	10% of 1.1+1.2	
	sub-total				9,859,946		
3.	Miscellaneous Works	LS		1	1,046,095	10% of 1+2	
					11,507,040		
	Round				11,507,000	per number	

Item No : NWP-03
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-C in NWP
 Province : North West Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	117	0	0		UP-2
1.2	Excavation & backfilling for tank	m3	425	0	0		UP-3
1.3	Excavation & backfilling for tank	m3	730	0	0		UP-5
1.4	Excavation & backfilling for main canal	m3	730	360	262,747		UP-4
1.5	Other works	LS		1	26,275	10% of 1.1+1.2	
	sub-total				289,022		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	17,092	0	0		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	36,400	0	0		UP-8
2.3	Main canal lining	m	7,583	1,030	7,810,490		UP-9-1
2.4	Other works	LS		1	781,049	10% of 1.1+1.2	
	sub-total				8,591,539		
3.	Miscellaneous Works	LS		1	888,056	10% of 1+2	
					9,768,617		
	Round				9,769,000	per number	

Breakdown of Lamp Sum Price for Minor Tank Rehabilitation

Item No : NP-01
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-H in NP
 Province : Northern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	118	100	11,800		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	430	360	154,881		UP-3
1.3	Excavation & backfilling	m3	599	300	179,700		UP-5
1.4	Other works	LS		1	19,150	10% of 1.1+1.2	
	sub-total				365,531		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	17,283	27	470,098		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	36,807	19	700,800		UP-8
2.3	Main canal lining	m	7,668	30	230,040		UP-9-1
2.4	Other works	LS		1	140,094	10% of 1.1+1.2	
	sub-total				1,541,032		
3.	Miscellaneous Works	LS		1	190,656	10% of 1+2	
					2,097,219		
	Round				2,097,000	per number	

Item No : NP-02
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-HC NP
 Province : Northern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	118	100	11,800		UP-2
1.2	Clearing of top soil	m3	430	360	154,881		UP-3
1.3	Excavation & backfilling for tank	m3	599	200	119,800		UP-5
1.4	Excavation & backfilling for main canal	m3	599	360	215,640		UP-4
1.5	Other works	LS		1	22,744	10% of 1.1+1.2	
	sub-total				524,865		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	17,283	27	466,641		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	36,807	19	699,328		UP-8
2.3	Main canal lining	m	7,668	1,030	7,898,040		UP-9-1
2.4	Other works	LS		1	906,401	10% of 1.1+1.2	
	sub-total				9,970,410		
3.	Miscellaneous Works	LS		1	1,049,527	10% of 1+2	
					11,544,802		
	Round				11,545,000	per number	

Item No : NP-03
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-C in NP
 Province : Northern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	118	0	0		UP-2
1.2	Excavation & backfilling for tank	m3	430	0	0		UP-3
1.3	Excavation & backfilling for tank	m3	599	0	0		UP-5
1.4	Excavation & backfilling for main canal	m3	599	360	215,640		UP-4
1.5	Other works	LS		1	21,564	10% of 1.1+1.2	
	sub-total				237,204		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	17,283	0	0		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	36,807	0	0		UP-8
2.3	Main canal lining	m	7,668	1,030	7,898,040		UP-9-1
2.4	Other works	LS		1	789,804	10% of 1.1+1.2	
	sub-total				8,687,844		
3.	Miscellaneous Works	LS		1	892,505	10% of 1+2	
					9,817,553		
	Round				9,818,000	per number	

Breakdown of Lamp Sum Price for Minor Tank Rehabilitation

ItemNo : UP-01
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-H in UP
 Province : Uva Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	88	100	8,767		UP-2
1.2	Forming bund from borrow of 1-2 km	m3	320	360	115,073		UP-3
1.3	Excavation & backfilling	m3	548	300	164,495		UP-5
1.4	Other works	LS		1	17,326	10% of 1.1+1.2	
	sub-total				305,661		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	12,841	27	349,271		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	27,347	19	520,678		UP-8
2.3	Main canal lining	m	5,697	30	170,910		UP-9-1
2.4	Other works	LS		1	104,086	10% of 1.1+1.2	
	sub-total				1,144,945		
3.	Miscellaneous Works	LS		1	145,061	10% of 1+2	
					1,595,666		
	Round				1,596,000	per number	

ItemNo : UP-02
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-HC in NP
 Province : Uva Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	88	100	8,767		UP-2
1.2	Clearing of top soil	m3	320	360	115,073		UP-3
1.3	Excavation & backfilling for tank	m3	548	200	109,663		UP-5
1.4	Excavation & backfilling for main canal	m3	548	360	197,394		UP-4
1.5	Other works	LS		1	20,616	10% of 1.1+1.2	
	sub-total				451,513		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	12,841	27	346,703		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	27,347	19	519,584		UP-8
2.3	Main canal lining	m	5,697	1,030	5,867,910		UP-9-1
2.4	Other works	LS		1	673,420	10% of 1.1+1.2	
	sub-total				7,407,617		
3.	Miscellaneous Works	LS		1	785,913	10% of 1+2	
					8,645,043		
	Round				8,645,000	per number	

ItemNo : UP-03
 Item : Rehabilitation of Tank / Anicut, Type : Tmi-C in NP
 Province : Uva Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Clearing of top soil	m3	88	0	0		UP-2
1.2	Excavation & backfilling for tank	m3	320	0	0		UP-3
1.3	Excavation & backfilling for tank	m3	548	0	0		UP-5
1.4	Excavation & backfilling for main canal	m3	548	360	197,394		UP-4
1.5	Other works	LS		1	19,739	10% of 1.1+1.2	
	sub-total				217,133		
2.	Concrete Works						
2.1	Concrete 1:3:6 (40) include. necessary works	m3	12,841	0	0		UP-7
2.2	Re-inforced concrete, incl. form etc.	m3	27,347	0	0		UP-8
2.3	Main canal lining	m	5,697	1,030	5,867,910		UP-9-1
2.4	Other works	LS		1	586,791	10% of 1.1+1.2	
	sub-total				6,454,701		
3.	Miscellaneous Works	LS		1	667,183	10% of 1+2	
					7,339,017		
	Round				7,339,000	per number	

2.4 Breakdown of Major Unit Prices

Breakdown of Unit Price

Item No : BUP-01
 Item : Construction of agro-well, 6m dia. 6m depth
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Site clearing	LS	5,000	1	5,000	PEACE PJT 2011	
1.2	Excavation of soil	m3	136	34	4,570	PEACE PJT 2011	
1.3	Excavation of rock	m3	1,354	14	18,956	PEACE PJT 2011	
1.4	Other works	LS			5,705	20% of sum of 1	
	sub-total				28,526		
2.	Concrete Works						
2.1	Random rubble masonry with cement and mortar	m3	6,893	8	55,144	PEACE PJT 2011	
2.2	Thik brick masonry with cement and mortar	m3	10,400	25	260,000	PEACE PJT 2011	
2.3	Re-inforced concrete, incl. form etc.	m3	11,176	2	17,882	PEACE PJT 2011	
2.4	Other works	LS		1	133,210	40% of sum of 2	
	sub-total				466,236		
3.	Miscellaneous Works	LS		1	97,038	20% of 1+2	
	Total				591,799		
	Round				592,000	per number	

Breakdown of Unit Price

Item No : BUP-02
 Item : Construction of water harvesting pond
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Site clearing	LS	1,000	1	1,000	PEACE PJT 2011	
1.2	Excavation of soil	m3	136	180	24,480	PEACE PJT 2011	
1.3	Excavation of rock	m3	1,354	0	0	PEACE PJT 2011	
1.4	Other works	LS			2,548	10% of sum of 1	
	sub-total				25,480		
2.	Concrete Works						
2.1	Random rubble masonry with cement and mortar	m3	6,893	20	137,860	PEACE PJT 2011	
2.2	Thik brick masonry with cement and mortar	m3	10,400	0	0	PEACE PJT 2011	
2.3	Re-inforced concrete, incl. form etc.	m3	11,176	16	178,816	PEACE PJT 2011	
2.4	Other works	LS		1	31,668	10% of sum of 2	
	sub-total				348,344		
3.	Miscellaneous Works	LS		1	17,417	5% of 1+2	
	Total				391,241		
	Round				391,000	per number	

Breakdown of Unit Price

Item No : BUP-03
 Item : Construction of drying floor
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Site clearing	LS	1,000	1	1,000	PEACE PJT 2011	
1.2	Excavation of soil	m3	136	30	4,080	PEACE PJT 2011	
1.3	Excavation of rock	m3	1,354	0	0	PEACE PJT 2011	
1.4	Other works	LS			508	10% of sum of 1	
	sub-total				5,080		
2.	Concrete Works						
2.1	Random rubble masonry with cement and mortar	m3	6,893	20	137,860	PEACE PJT 2011	
2.2	Thik brick masonry with cement and mortar	m3	10,400	0	0	PEACE PJT 2011	
2.3	Re-inforced concrete, incl. form etc.	m3	11,176	15	167,640	PEACE PJT 2011	
2.4	Other works	LS		1	30,550	10% of sum of 2	
	sub-total				336,050		
3.	Miscellaneous Works	LS		1	16,803	5% of 1+2	
	Total				357,933		
	Round				358,000	per number	

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Breakdown of Unit Price

Item No : BUP-04
 Item : Feeder canal construction for OFC (including structure)
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Site clearing	ha	24,069	0.01	241		UP-1
1.2	Excavation soil	m3	329	8.10	2,665		UP-6
1.3	Other works	LS		1	291	10% of sum of 1	
	sub-total				3,196		
2.	Concrete Works						
2.1	Re-inforced concrete, incl. form etc.	m3	30,970	1.49	45,990		UP-8
2.2	Concrete 1:3:6 (40) include. necessary works	m3	14,542	0.29	4,217		UP-7
2.3	Other works	LS		1	5,021	10% of sum of 1	
	sub-total				55,228		
3.	Miscellaneous Works	LS		1	2,921	5% of 1+2	
	Total				61,346	per ha	

Item No : BUP-05
 Item : Collecting center building, 200 m2
 Province : Eastern Province

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Earth Works						
1.1	Site clearing	ha	21,088	0.02	506		UP-1
1.2	Excavation soil	m3	329	17.50	5,757		UP-6
1.3	Other works	LS		1	626	10% of sum of 1	
	sub-total				6,890		
2.	Concrete Works						
2.1	Re-inforced concrete, incl. form etc.	m3	30,970	57.63	1,784,646		UP-8
2.2	Concrete 1:3:6 (40) include. necessary works	m3	14,542	10.00	145,423		UP-7
2.3	Gravel bedding	m3	504	100.00	50,401		
2.4	Other works	LS		1	193,007	10% of sum of 1	
	sub-total				2,173,477		
3.	Truss & roofing						
3.1	Steel truss	ton	93,333	2.390	223,104	L-75x75x9,	
3.2	Roof	m2	833	240	200,000		
1.3	Other works	LS		1	42,310	10% of sum of 1	
	sub-total				465,414		
	Total				2,645,782		

Item No : BUP-06
 Item : Provision of electric fence
 Province : Common

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
1.	Supply and installation of electric fence	km	250,000	1	250,000	3 strand fence	
2.	Supply of chemically treated timber post	km	265,000	1	265,000	for 1 above	
3.	Supply and installation of fence control equipment with solar power system	km	19,000	1	19,000	Rs.550,000/30km	
4.	Other orks	LS		1	47,000	10% of 1 to 3	
	Total				581,000	per km	

Item No : BUP-07
 Item : Provision of drip irrigation system
 Province : Common

No.	Description of Works	Unit	Unit Price (Rs)	Qty	Amount (Rs)	Remarks	Ref. No
	per 1.2 ha						
1.	Supply and installation of water tank of 1,000 liter	nos	16,200	1	16,200	1000 liter tank	
2.	Supply and installation of support for water tank	LS	20,000	1	20,000	steel angle	
3.	Supply of soft polyethylene pipe D20mm	m	80	400	32,000		
4.	Other orks	LS		1	6,220	10% of 1 to 3	
	Total				74,420	per 1.2 ha	
	Total per ha				62,000	per 1 ha	

2.5 Output of Cost Estimate Kit by JICA

Precondition

Common terms for Appraisal

Name of Local Currency

		<u>Sri Lanka Rs.</u>	
(1)	Yen/\$	US\$ 1 =	<input type="text" value="79.0"/> Yen
(2)	LC/\$	US\$ 1 =	<input type="text" value="132.0"/> Sri Lanka Rs.
(3)	Yen/Sri Lanka Rs.	Sri Lanka Rs.	<input type="text" value="0.598"/> Yen 0.5984848

Price Escalation

(1)	FC	<input type="text" value="2.1%"/>	LC	<input type="text" value="4.0%"/>
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Physical Contingency

Construction	<input type="text" value="5.0%"/>	Consultant	<input type="text" value="5.0%"/>
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Base Year for Cost Estimation:

Schedule

Start

End

Billing Rate of Consultant

	FC Yen	C Sri Lanka Rs.
Pro-(A)	<input type="text" value="2,350,000"/>	<input type="text" value="0"/>
Pro-(B)	<input type="text" value="0"/>	<input type="text" value="350,000"/>
Supporting Staff	<input type="text" value="0"/>	<input type="text" value="107,268"/>

Others

Rate of Tax

VAT	<input type="text" value="12.0%"/>	Import Tax	<input type="text" value="0.0%"/>
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Rate of Administration Cost

Rate of Interest During Construction

Construction	<input type="text" value="1.40%"/>	Consultant	<input type="text" value="0.01%"/>
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Rate of Commitment Charges

Payment Method for Interest during construction and Commitment charge

Fiscal Year

Cost Breakdown for Package

US \$ =yen 79
Sri Lanka Rs. =yen 0.59848

item	Local	Total
	Sri Lanka Rs.	yen
Land Acquisition Cost	0	0

Civil Work Package-1 (LCB): Kurai tank augmentation & Parangi aru 借款対象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Kurai tank bund rehabilitation	LS	1			35,702,244	32,121,851	54,926,529
Parangi anicut rehabilitation	LS	1			53,679,715	48,296,455	82,584,177
Supply canal	LS	1			63,171,836	56,836,660	97,187,440
Canal rehabilitation	LS				8,637,727	7,771,495	13,288,812
Total					161,191,523	145,026,459	247,986,958

Civil Work Package-2 (LCB): Welimaruthamadu Irrigation 借款対象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Tank bund rehabilitation	1	LS			7,498,356	6,746,385	11,535,932
Canal rehabilitation	1	LS			27,984,557	25,178,131	43,053,165
Miscellaneous works	1	LS			12,849,531	11,560,918	19,768,509
Total					48,332,444	43,485,433	74,357,606

Civil Work Package-3 (LCB) : Muthayankaddu Tank Lift Irrigation 借款対象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Headwork rehabilitation	LS	1			11,825,965	10,640,000	18,193,792
Rehabilitation of left bank canal rehabilitation	LS	1			50,790,185	45,696,700	78,138,746
Rehabilitation of right bank canal rehabilitation	LS	1			37,505,425	33,744,200	57,700,654
Right bank area pump system	LS	1			91,641,502	82,451,250	140,986,926
Left bank area pump system	LS	1			45,210,197	40,676,300	69,554,149
Total					236,973,273	213,208,450	364,574,266

Civil Work Package-4 (LCB) : Vavunikulam Tank - Right & Left Bank Lift 借款対象率 100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Left bank main canal	LS	1			50,839,589	45,741,150	78,214,753
Right bank main canal	LS	1			97,484,851	87,708,600	149,976,694
Total					148,324,440	133,449,750	228,191,447

Civil Work Package-5 (LCB) : Mahaweli System H

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
North central province	LS	1			139,201,597	125,241,789	214,156,303
North western province	LS	1			6,999,528	6,297,582	10,768,505
Total					146,201,125	131,539,371	224,924,807

Civil Work Package-6 (LCB) : Ingnimitiva scheme

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Canal rehabilitation	LS	1			152,773,314	137,452,469	235,035,868
Miscellaneous works	LS	1			7,638,666	6,872,623	11,751,793
Total					160,411,980	144,325,092	246,787,661

Civil Work Package-7 (LCB) : Neelabemma scheme

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Tank bund rehabilitation	LS	1			0	0	0
Canal rehabilitation	LS	1			35,437,804	31,883,930	54,519,699
Miscellaneous works	LS	1			3,543,780	3,188,393	5,451,970
Total					38,981,585	35,072,323	59,971,669

Civil Work Package-8 (LCB) : Major tank rehabilitation

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Vahaneri tank	LS	1			18,076,221	16,263,450	27,809,570
Yan oya scheme	LS	1			6,661,441	5,993,400	10,248,372
Mahadivulwewa	LS	1			8,509,248	7,655,900	13,091,152
Tabbowa	LS	1			6,859,449	6,171,550	10,552,998
Manankatiya	LS	1			13,357,894	12,035,800	20,550,606
Total					53,464,253	48,120,100	82,252,697

Civil Work Package-9 (LCB) : Medium tank rehabilitation

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Eastern province	no	7			35,658,785	32,082,750	54,859,669
Northern province	no	21			139,969,630	125,932,800	215,337,892
North central province	no	1			4,698,487	4,577,300	7,826,921
North western province	no	1			7,709,829	6,936,650	11,861,275
Uva province	no	2			1,717,488	1,545,250	2,642,289
Total					189,754,218	171,074,750	292,528,047

Civil Work Package-10 (LCB) : Minor tank rehabilitation

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Eastern province	no	16			63,619,801	57,239,700	97,876,616
Northern province	no	14			62,745,302	56,452,900	96,531,233
North central province	no	17			90,326,252	81,267,900	138,963,465
North western province	no	16			84,317,962	75,862,150	129,719,942
Uva province	no	8			26,471,878	23,817,150	40,725,966
Total					327,481,194	294,639,800	503,817,221

Civil Work Package-11 (LCB) : Agro well provision

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Eastern province	no	1,097			193,104,300	166,988,100	293,043,338
Northern province	no	618			125,355,646	108,981,300	190,578,774
North central province	no	1,115			238,356,420	207,591,350	362,595,691
North western province	no	1,142			229,425,542	199,389,950	348,756,440
Uva province	no	1,616			257,381,471	221,625,400	390,019,840
MASL	no	83			17,855,950	15,554,500	27,165,007
Total					1,061,479,329	920,130,600	1,612,159,091

Civil Work Package-12 (LCB) : Rural & access road rehabilitation

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Eastern province	Km	155			52,015,962	46,799,550	80,024,556
Northern province	Km	168			59,741,351	53,750,200	91,909,771
North central province	Km	136			72,410,694	65,149,000	111,401,067
North western province	Km	82			28,830,068	25,938,850	44,353,951
Uva province	Km	28			7,627,358	6,862,450	11,734,397
MASL	Km	59			34,303,467	30,863,350	52,774,565
Total					254,928,900	229,363,400	392,198,308

Procurement of equipment (1) (LCB) : Vehicle & equipment for PMU & PIUs

借款对象率

100

item	unit	Quantity	Unit Price		Cost		Total
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
4WD Vehicles	no	1	4,200,000	0	4,200,000	0	4,200,000
4WD pickup truck	no	24	3,000,000	0	72,000,000	0	72,000,000
Motoreycles	no	80	200,000	0	16,000,000	0	16,000,000
Office equipment	LS	1	12,876,297		12,876,297	0	12,876,297
Total					105,076,297	0	105,076,297

Procurement of equipment (2) (LCB) : Micro irrigation system

借款対象率

100

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Eastern province	LS	1			6,274,045	11,743,700	13,302,415
Northern province	LS	1			5,529,357	7,963,000	10,295,053
North central province	LS	1			8,016,400	18,975,400	19,372,798
North western province	LS	1			16,180,805	41,158,500	40,813,344
Uva province	LS	1			13,232,692	29,664,500	30,986,302
MASL	LS	1			3,429,231	8,107,100	8,281,168
Total					52,662,529	117,612,200	123,051,079

Procurement of equipment (3) (LCB) : Farm machinery & equipment

借款対象率

100

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Eastern province	LS	1			14,907,359	58,120,300	49,691,196
Northern province	LS	1			9,564,668	37,290,400	31,882,227
North central province	LS	1			24,992,525	97,440,000	83,308,416
North western province	LS	1			37,868,343	147,639,800	126,227,811
Uva province	LS	1			8,773,418	34,205,500	29,244,725
MASL	LS	1			10,690,050	41,678,000	35,633,499
Total					106,796,362	416,374,000	355,987,874

Soft component (1) : Agricultural crop promotion program

借款対象率

100

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Production improvement program	LS	1			15,063,742	170,097,000	116,863,394
Logistic system improvement & other program	LS	1			285,196,110	190,852,931	399,417,173
Enhancement of extension service program	LS	1			47,585,145	38,140,000	70,411,172
Total					347,844,996	399,089,931	586,691,739

Soft component (2) : Livestock product promotion program

借款対象率

100

item	unit	Quantity	Unit Price		Cost		Total yen
			Foreign	Local	Foreign	Local	
			yen	Sri Lanka Rs.	yen	Sri Lanka Rs.	
Production improvement program	LS	1			189,023,325	385,750,000	419,886,386
Market development program	LS	1			57,556,420	91,126,000	112,093,509
Livestock service quality program	LS	1			56,437,262	58,888,000	91,679,954
Total					303,017,007	535,764,000	623,659,849

Implementation Schedule

	2013			2014			2015			2016			2017			2018			2019			2020			Month
																									0
Pledge																									1
Signing of Loan Agreement																									1
																									10
Consulting Services																									72
																									0
Land Acquisition																									0
Implementation																									
Civil Work Package-1 (LCB) : Kurai tank augmentation & Para	0			0			0			12			12			0			0			0			24
Civil Work Package-2 (LCB) : Welmaruthamadu Irrigation	0			0			2			12															14
Civil Work Package-3 (LCB) : Muthayankaddu Tank Lift Irriga	0			0			0			12			12			12			0			0			36
Civil Work Package-4 (LCB) : Vavunikulam Tank - Right & Le	0			0			2			12			10			0			0			0			24
Civil Work Package-5 (LCB) : Mahaweli System H	0			0			0			12			12			0			0			0			24
Civil Work Package-6 (LCB) : Ingnimitiva scheme	0			0			2			12			6			0			0			0			20
Civil Work Package-7 (LCB) : Neelaberma scheme	0			0			9			12			12			12			3			0			48
Civil Work Package-8 (LCB) : Major tank rehabilitation	0			0			9			12			12			12			3			0			48
Civil Work Package-9 (LCB) : Medium tank rehabilitation	0			0			9			12			12			12			3			0			48
Civil Work Package-10 (LCB) : Minor tank rehabilitation	0			0			9			12			12			12			3			0			48
Civil Work Package-11 (LCB) : Agro well provision	0			0			0			12			12			12			3			0			39
Civil Work Package-12 (LCB) : Rural & access road rehabilit	0			0			9			12			12			12			3			0			48
Procurement of equipment (1) (LCB) : Vehicle & equipment fo	0			10			0			0			0			0			0			0			10
Procurement of equipment (2) (LCB) : Micro irrigation system	0			0			9			12			12			12			12			0			57
Procurement of equipment (3) (LCB) : Farm machinery & equi	0			0			6			12			12			12			12			0			54
Soft component (1) : Agricultural crop promotion program	0			0			9			12			12			12			12			9			66
Soft component (2) : Livestock product promotion program	0			0			9			12			12			12			12			9			66

Cost Breakdown for the Consulting Services

US \$ = yen 79
Sri Lanka Rs. = yen 0.59848

	Unit	Qty.	Foreign Portion		Local Portion		Combined Total
			(Yen)		Sri Lanka Rs.		
			Rate	Amount ('000)	Rate	Amount ('000)	
A Remuneration							
1 Professional (A)	M/M	122	2,350,000	286,700			286,700
2 Professional (B)	M/M	1973		0	350,000	690,550	413,280
3 Supporting Staff	M/M	6971		0	107,268	747,765	447,523
Subtotal of A				286,700		1,438,315	1,147,503
							0
B Direct Cost							0
1 International air fare	Trip	21	200,000	4,200		0	4,200
2 Mobilization cost for Professional (A)	Time	6	15,000	90		0	90
3 Per Diem for Pro (A)	Month	122	300,000	36,600		0	36,600
4 Procurement of Vehicle	No.	21	2,500,000	52,500		0	52,500
5 Procurement of motorcycle	No.	62	200,000	12,400		0	12,400
6 Hotel accommodation for short term	Month	12		0	300,000	3,600	2,155
7 Accommodation for Pro (A)	Month	72		0	300,000	21,600	12,927
8 Out of station allowance for Pro (B)	Day	5919		0	2,000	11,838	7,085
9 Lodging cost for Pro (B)	MM	1973		0	50,000	98,650	59,040
10 Initial office set up cost	place	6		0	1,000,000	6,000	3,591
11 Office supply	Month	444		0	50,000	22,200	13,286
12 Office equipment procurement cost	LS	1		0	10,000,000	10,000	5,985
13 O&M for vehicle & motorcycle	Month	66		0	1,782,000	117,612	70,388
14 Vehicle rental charge	Month	18		0	1,000,000	18,000	10,773
15 Communication cost	Month	74		0	50,000	3,700	2,214
16 Report preparation cost	Month	74		0	30,000	2,220	1,329
17 Survey & Geological Investigation	LS	1		0	20,000,000	20,000	11,970
18 Baseline survey and M&E	LS	1		0	10,000,000	10,000	5,985
19 Ground water survey	Location	60		0	200,000	12,000	7,182
20 Contingency	LS	1		0	10,000,000	10,000	5,985
							0
							0
							0
Subtotal of B				105,790		367,420	325,684
Total				392,490		1,805,735	1,473,186

Annural Distribution of Cost

Item	Total			2013			2014			2015			2016			2017			2018			2019			2020		
	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total
1 Civil Work Package-1 (LCB): Kurai tank augmentation & Parangi aru	100%	100%	100%				0%	0%	0%	0%	0%	0%	50%	50%	50%	50%	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2 Civil Work Package-2 (LCB): Welmaruthamadu Irrigation	100%	100%	100%				0%	0%	0%	10%	10%	10%	60%	60%	60%	30%	30%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%
3 Civil Work Package-3 (LCB): Muthayankaddu Tank Lift Irrigation	100%	100%	100%				0%	0%	0%	0%	0%	0%	33%	33%	33%	33%	33%	33%	33%	33%	33%	0%	0%	0%	0%	0%	0%
4 Civil Work Package-4 (LCB): Vavunikulam Tank - Right & Left Bank Lift	100%	100%	100%				0%	0%	0%	8%	8%	8%	50%	50%	50%	42%	42%	42%	0%	0%	0%	0%	0%	0%	0%	0%	0%
5 Civil Work Package-5 (LCB): Mahaweli System H	100%	100%	100%				0%	0%	0%	0%	0%	0%	50%	50%	50%	50%	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%
6 Civil Work Package-6 (LCB): Ingnimitiva scheme	100%	100%	100%				0%	0%	0%	0%	0%	0%	50%	50%	50%	50%	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%
7 Civil Work Package-7 (LCB): Neelabemma scheme	100%	100%	100%				0%	0%	0%	10%	10%	10%	60%	60%	60%	30%	30%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%
8 Civil Work Package-8 (LCB): Major tank rehabilitation	100%	100%	100%				0%	0%	0%	19%	19%	19%	25%	25%	25%	25%	25%	25%	25%	25%	25%	6%	6%	6%	0%	0%	0%
9 Civil Work Package-9 (LCB): Medium tank rehabilitation	100%	100%	100%				0%	0%	0%	19%	19%	19%	25%	25%	25%	25%	25%	25%	25%	25%	25%	6%	6%	6%	0%	0%	0%
10 Civil Work Package-10 (LCB): Minor tank rehabilitation	100%	100%	100%				0%	0%	0%	19%	19%	19%	25%	25%	25%	25%	25%	25%	25%	25%	25%	6%	6%	6%	0%	0%	0%
11 Civil Work Package-11 (LCB): Agro well provision	100%	100%	100%				0%	0%	0%	0%	0%	0%	31%	31%	31%	31%	31%	31%	31%	31%	31%	8%	8%	8%	0%	0%	0%
12 Civil Work Package-12 (LCB): Rural & access road rehabilitation	100%	100%	100%				0%	0%	0%	19%	19%	19%	25%	25%	25%	25%	25%	25%	25%	25%	25%	6%	6%	6%	0%	0%	0%
13 Procurement of equipment (1) (LCB): Vehicle & equipment for PMU & PIUs	100%	100%	100%				100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
14 Procurement of equipment (2) (LCB): Micro irrigation system	100%	100%	100%				0%	0%	0%	16%	16%	16%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	21%	0%	0%
15 Procurement of equipment (3) (LCB): Farm machinery & equipment	100%	100%	100%				0%	0%	0%	11%	11%	11%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	22%	0%	0%
16 Soft component (1): Agricultural crop promotion program	100%	100%	100%				0%	0%	0%	14%	14%	14%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	14%	14%
17 Soft component (2): Livestock product promotion program	100%	100%	100%				0%	0%	0%	14%	14%	14%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	18%	14%	14%
Land Acquisition							0%			0%			0%			0%			0%			0%					0%
Consultant	100%	100%	100%				14%	8%	10%	20%	20%	20%	17%	20%	19%	18%	18%	18%	14%	16%	15%	13%	11%	12%	4%	7%	6%

C-104

Annual Fund Requirement

Base Year for Cost Estimation: Jan, 2012
 Exchange Rates: Sri Lanka Rs. = Yen 0.59848
 Price Escalation: FC: 2.1% LC: 4.0%
 Physical Contingency 5%
 Physical Contingency for Consultant Item

FC & Total: million JPY
 LC : million Sri Lanka Rs.

C-105

Item	Total			2014			2015			2016			2017			2018			2019			2020		
	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total	FC	LC	Total
A. ELIGIBLE PORTION	4,352	5,097	7,402	115	0	115	318	414	566	1,284	1,415	2,131	1,266	1,427	2,120	910	1,099	1,568	348	559	682	110	183	220
I Procurement / Construction	4,352	5,097	7,402	115	0	115	318	414	566	1,284	1,415	2,131	1,266	1,427	2,120	910	1,099	1,568	348	559	682	110	183	220
Civil Work Package-1 (LCB): Kural tank augmenta	161	145	248	0	0	0	0	0	0	81	73	124	81	73	124	0	0	0	0	0	0	0	0	0
Civil Work Package-2 (LCB): Welimaruhamadu In	48	43	74	0	0	0	5	4	7	29	26	45	14	13	22	0	0	0	0	0	0	0	0	0
Civil Work Package-3 (LCB): Muthayankaddu Tan	237	213	365	0	0	0	0	0	0	79	71	122	79	71	122	79	71	122	0	0	0	0	0	0
Civil Work Package-4 (LCB): Vavunikulam Tank -	148	133	228	0	0	0	12	11	19	74	67	114	62	56	95	0	0	0	0	0	0	0	0	0
Civil Work Package-5 (LCB): Mahaweli System H	146	132	225	0	0	0	0	0	0	73	66	112	73	66	112	0	0	0	0	0	0	0	0	0
Civil Work Package-6 (LCB): Ingimittiva sche	160	144	247	0	0	0	0	0	0	80	72	123	80	72	123	0	0	0	0	0	0	0	0	0
Civil Work Package-7 (LCB): Neelaberma sche	39	35	60	0	0	0	4	4	6	23	21	36	12	11	18	0	0	0	0	0	0	0	0	0
Civil Work Package-8 (LCB): Major tank rehabili	53	48	82	0	0	0	10	9	15	13	12	21	13	12	21	13	12	21	3	3	5	0	0	0
Civil Work Package-9 (LCB): Medium tank rehabi	190	171	293	0	0	0	36	32	55	47	43	73	47	43	73	47	43	73	12	11	18	0	0	0
Civil Work Package-10 (LCB): Minor tank rehabi	327	295	504	0	0	0	61	55	94	82	74	126	82	74	126	82	74	126	20	18	31	0	0	0
Civil Work Package-11 (LCB): Agro well provisio	1,061	920	1,612	0	0	0	0	0	0	327	283	496	327	283	496	327	283	496	82	71	124	0	0	0
Civil Work Package-12 (LCB): Rural & access ro	255	229	382	0	0	0	48	43	74	64	57	98	64	57	98	64	57	98	16	14	25	0	0	0
Procurement of equipment (1) (LCB): Vehicle & e	105	0	105	105	0	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Procurement of equipment (2) (LCB): Micro irrigat	53	118	123	0	0	0	8	19	19	11	25	26	11	25	26	11	25	26	11	25	26	0	0	0
Procurement of equipment (3) (LCB): Farm mach	107	416	356	0	0	0	12	46	40	24	93	79	24	93	79	24	93	79	24	93	79	24	93	79
Soft component (1): Agricultural crop promotion p	348	399	587	0	0	0	47	54	80	63	73	107	63	73	107	63	73	107	63	73	107	47	54	80
Soft component (2): Livestock product promotion	303	536	624	0	0	0	41	73	85	55	97	113	55	97	113	55	97	113	55	97	113	41	73	85
Base cost for JICA financing	3,743	3,978	6,124	105	0	105	285	351	495	1,126	1,152	1,615	1,087	1,117	1,755	765	827	1,260	286	404	528	89	127	165
Price escalation	402	876	926	4	0	4	18	44	45	98	196	215	119	242	264	102	219	233	45	128	121	16	47	44
Physical contingency	207	243	352	5	0	5	15	20	27	61	67	101	60	68	101	43	52	75	17	27	32	5	9	10
II Consulting services	453	2,291	1,824	60	164	158	86	418	336	76	443	341	83	415	331	66	363	295	61	287	232	21	182	130
Base cost	392	1,806	1,473	55	144	141	77	354	289	67	360	283	71	325	266	56	298	228	50	207	174	17	126	93
Price escalation	39	376	264	2	12	9	5	44	31	6	61	42	8	70	50	7	76	53	8	66	47	3	47	31
Physical contingency	22	109	87	3	8	8	4	20	16	4	21	16	4	20	16	3	14	14	3	14	11	1	9	6
Total (I + II)	4,805	7,388	9,227	175	164	273	404	832	902	1,361	1,857	2,472	1,349	1,842	2,452	976	1,482	1,863	408	846	914	132	365	350
B. NON ELIGIBLE PORTION																								
a Procurement / Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base cost for JICA financing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Price escalation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical contingency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
b Land Acquisition	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Base cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Price escalation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Physical contingency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
c Administration cost	0	582	348	0	17	10	0	57	34	0	156	93	0	155	93	0	118	70	0	58	35	0	22	13
d VAT	0	1,920	1,149	0	57	34	0	188	112	0	514	308	0	510	305	0	388	232	0	190	114	0	73	44
e Import Tax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (a+b+c+d+e)	0	2,502	1,497	0	74	44	0	245	146	0	670	401	0	665	398	0	505	302	0	248	148	0	95	57
TOTAL (A+B)	4,805	9,890	10,724	175	238	317	404	1,077	1,048	1,361	2,528	2,873	1,349	2,507	2,850	976	1,987	2,166	408	1,093	1,063	132	460	407
C. Interest during Construction	426	0	426	2	0	2	10	0	10	40	0	40	70	0	70	93	0	93	104	0	104	108	0	108
Interest during Construction (Const.)	425	0	425	2	0	2	10	0	10	40	0	40	70	0	70	93	0	93	104	0	104	108	0	108
Interest during Construction (Consul.)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D. Commitment Charge	9	0	9	0	0	0	1	0	1	2	0	2	2	0	2	2	0	2	1	0	1	0	0	0
GRAND TOTAL (A+B+C+D)	5,240	9,890	11,159	177	238	319	414	1,077	1,059	1,403	2,528	2,915	1,422	2,507	2,922	1,071	1,987	2,260	513	1,093	1,167	240	460	515
E. JICA finance portion incl. IDC (A + C + D)	5,240	7,388	9,661	177	164	275	414	832	913	1,403	1,857	2,514	1,422	1,842	2,524	1,071	1,482	1,958	513	846	1,019	240	365	459

Breakdown of Cost	Foreign Currency Portion			Local Currency Portion			Total		
	Total	JICA Portion	Others	Total	JICA Portion	Others	Total	JICA Portion	Others
Civil Work Package-1 (LCB)	161	161	0	145	145	0	248	248	0
Civil Work Package-2 (LCB)	48	48	0	43	43	0	74	74	0
Civil Work Package-3 (LCB)	237	237	0	213	213	0	365	365	0
Civil Work Package-4 (LCB)	148	148	0	133	133	0	228	228	0
Civil Work Package-5 (LCB)	146	146	0	132	132	0	225	225	0
Civil Work Package-6 (LCB)	160	160	0	144	144	0	247	247	0
Civil Work Package-7 (LCB)	39	39	0	35	35	0	60	60	0
Civil Work Package-8 (LCB)	53	53	0	48	48	0	82	82	0
Civil Work Package-9 (LCB)	190	190	0	171	171	0	292	292	0
Civil Work Package-10 (LCB)	327	327	0	295	295	0	504	504	0
Civil Work Package-11 (LCB)	1,061	1,061	0	920	920	0	1,612	1,612	0
Civil Work Package-12 (LCB)	255	255	0	229	229	0	392	392	0
Procurement of equipment (1) (LCB)	105	105	0	0	0	0	105	105	0
Procurement of equipment (2) (LCB)	53	53	0	118	118	0	123	123	0
Procurement of equipment (3) (LCB)	107	107	0	416	416	0	356	356	0
Soft component (Agricultural crop)	348	348	0	399	399	0	587	587	0
Soft component (Livestock)	303	303	0	536	536	0	624	624	0
Price Escalation	402	402	0	876	876	0	926	926	0
Physical Contingency	207	207	0	243	243	0	352	352	0
Consulting Services	453	453	0	2,291	2,291	0	1,824	1,824	0
Land Acquisition	0	0	0	0	0	0	0	0	0
Administration Cost	0	0	0	582	0	582	348	0	348
VAT	0	0	0	1,920	0	1,920	1,149	0	1,149
Import Tax	0	0	0	0	0	0	0	0	0
Interest during construction	426	426	0	0	0	0	426	426	0
Commitment Charge	9	9	0	0	0	0	9	9	0
Total	5,240	5,240	0	9,890	7,388	2,502	11,159	9,661	1,497

Breakdown of Cost	Total	JICA Portion	Others
2014	319	275	44
2015	1,059	913	146
2016	2,915	2,514	401
2017	2,922	2,524	398
2018	2,260	1,958	302
2019	1,167	1,019	148
2020	515	459	57
Total	11,159	9,661	1,497