

MAHA W E L I G A N G A
D E V E L O P M E N T P R O J E C T

STAGE II OF PROJECT I

Area "H"

P R O G R E S S R E P O R T

FOR

QUARTER ENDING 30th SEPTEMBER 1983

Prepared for the

International Development Association

United Kingdom

United States Agency for International Development

Canadian International Development Agency

Kingdom of the Netherlands

European Economic Community

දුරකථන/දුරකථන අංකය / Telephone

ආයතන
පාලක } 83069
Chairman

පාලන සහතික
පාලක } 84501
General Manager

විද්‍යාල
අංක } 83060
Office } 83071



මගේ අංකය
எனது இல: }
My No.

ඔබේ අංකය
உமது இல: }
Your No.

මහවැලි සංවර්ධන මණ්ඩලය

மகாவலி அபிவிருத்தி சபை

MAHAWELI DEVELOPMENT BOARD

දිනය
திகதி } 12th. January '88
Date

ප. ම. ප. }
த. ம. ப. } 1667
P. O. Box

විදුලි පණිවුඩ
தந்தி }
Telegrams }
මහවැලි
மகாவலி }
Mahaweli

11, Jawatte Road, Colombo-5.

11, ජාවත්ත පාර, කොළඹ - 5.

11, யாவத்தாறு வீதி, கொழும்பு-5.

Mr. K.Pranich,
Chief, Irrigation Division
Agriculture Projects Division,
International Development Association,
1818 H Street, N.W.
Washington DC 20433
U.S.A.

Dear Mr. Pranich,

Mahaweli Ganga Development Project II - Sri Lanka
Credit No. 701 CE.

The Progress Report for the quarter ending 30th. September, 1980 is sent herewith.

Six copies of the report are enclosed for transmittal to CIDA, Netherlands, UK, USAID and the European Economic Community as well.

Whilst I trust these will supply the information you require at this time, I shall be glad to supply you with any additional information or clarification as may be necessary.

With best personal regards,

Yours sincerely,

Douglas Ladduwahetty
Douglas Ladduwahetty
Chairman
Mahaweli Development Board.

CURRENCY EQUIVALENTS (APPROX.)
=====

US\$	1	=	Rs. 16.3
£	1	=	Rs. 38.2
Can. \$	1	=	Rs. 14.0
Dutch Florin	1	=	Rs. 8.4
French Franc	1	=	Rs. 4.0

WEIGHTS & MEASURES

1 long ton	≈ 2,240 lbs.	=	1.016 tonnes.
1 cwt.	= 112 lbs.	=	50.8 kg.
1 bushel of paddy	= 46 lbs.		
1 acre	= 0.405 hectares.		
1 busl. /Ac. (Paddy)	= 0.05 tonne/Ha.		
1 Ac. Ft.	= 1233.3.cu.m.		

GLOSSARY

Chena	- Slash and burn or "shifting rainfed agriculture.
District	- Administrative subdivision of the Island
Ganga	- Perennial River
Maha Season	- North East monsoon season (October to January)
Oya	- Stream
Paddy	- Unhusked rice.
Purana Villages	- Villages inhabited by the descendents of the original settlers who have a tradition bound long history.
Rice	- The husked rice ready for cooking
Tank	- Small Reservoir
Yala Season	- South West monsoon season (March to June)

PRINCIPAL ABBREVIATIONS & ACRONYMS

=====

ATC	- Agricultural Training Centre/Community Training Centre
ASC	- Agricultural Service Centre
ARTI	- Agrarian Research & Training Institute
CIDA	- Canadian International Development Agency
DM & E	- Department of Machinery & Equipment
EEC	- European Economic Community
FAO	- Food & Agriculture Organization
FO	- Farmers' Organization
GOSL	- Government of Sri Lanka
GPS	- Guaranteed Price Scheme (for paddy)
IDA	- International Development Associations (World Bank)
LE	- Left Bank
LS.COOP	- Large Scale Cooperative (Coop. depot & Rural Bank)
LHG	- Low Humic Gley Soils
MASL	- Mahaweli Authority of Sri Lanka
MDB	- Mahaweli Development Board
MMD	- Ministry of Mahaweli Development
O & M	- Operation & Maintenance
PB	- People's Bank
PMB	- Paddy Marketing Board
PO	- Post Office
RB	- Right Bank
REE	- Reddish Brown Earths
SPO	- Sub Post Office
SS.COOP.	- Small Scale Cooperative
USAID	- United Nations Agency for International Development
UNICEF	- United Nations International Childrens Emergency Fund.
WFP	- World Food Program

FREQUENTLY USED ABBREVIATIONS FOR OFFICERS
=====

AI	- Agricultural Instructors
AO	- Agricultural Officers
ACDO	- Asst. Community Development Officers
CDO	- Community Development Officers
DRPM	- Deputy Resident Project Manager
EA	- Engineering Assistant
IE	- Irrigation Engineer
JPS	- Ditch Rider (Jala Palaka Sevaka)
KVS	- Village Level Worker (Krushikarma Viyapti Sevaka)
LO	- Land Officer
PAEO	- Project Agricultural Extension Officer
RPM	- Resident Project Manager
SMO	- Subject Matter Officer
WS	- Work Supervisor

C O N T E N T S

iv

Currency Equivalents (Approx.)	i
Weights & Measures	i
Glossary	i
Principal Abbreviations & Acronyms	ii
Frequently used Abbreviations for Officers	iii
Contents	iv-v
List of Maps	vi
List of Annexes	vi
<u>GENERAL DESCRIPTION OF DEVELOPMENT</u>	1
Credit Agreement	1-2
Project Implementation	2
Technical Assistance	2
Arrivals & Departures	2
<u>DEVELOPMENT WORK IN KALA OYA BASIN (STAGE II - SYSTEM H)</u>	
Summary	3-5
Indicies of the Status of Physical Development in H4, H5 Areas	6
Irrigation Infrastructure	7-10
Order of Completion of Irrigation Infrastructure in Blocks H4 & H5 Areas	11
Itemwise Contribution on the Block Completions	12
Social Infrastructure and O & M Buildings	13-14
Market Roads	15
Hamlets Roads & Village Wells	16-17
<u>LAND ACQUISITION & COMPENSATION</u>	18
<u>SETTLEMENT</u>	18-20
<u>SUMMARY PROGRESS ON FARM DEVELOPMENT (H4 & H5)</u>	21
<u>QUALITY CONTROL UNIT FOR SYSTEM 'H'</u>	22

PROJECT MANAGEMENT ACTIVITIES .

Agricultural Activities	23-26
Animal Husbandry Activities	27-28
Community Development	29-34
Water Management & Maintenance	35-39
Marketing & Credit	40
Land Administration	41-42
Farmer Training	43-45
PROJECT MANAGEMENT ACTIVITIES H5 - AREA	46-49

LIST OF MAPS

1. MAHAWELI GANGA (II)-IRRIGATION & RURAL DEVELOPMENT PROJECT
2. ROADS & SERVICE CENTRES IN H4 & H5 AREAS.
3. H4 & H5 AREAS - SCHEMATIC LAYOUT OF MAIN SUPPLY SYSTEM.

LIST OF ANNEXES

1. CAPITAL EXPENDITURE STATEMENT.
2. MDB ORGANISATION IN AREA, "H"

Summary

- | | |
|---|---|
| Chart No. 1 - Mahaweli Development Board - Organisation Structure | |
| Chart No. 2 - Asst. General Manager (Const.) | " |
| (System 'H') | |
| Chart No. 3 - Resident Project Manager | " |
| (Kalawewa) | |
| Chart No. 4 - Resident Project Manager | " |
| (Tambuttegama) | |

3. PROCUREMENT & DEPLOYMENT SCHEDULE OF MACHINERY & EQUIPMENT
4. H4 & H5 AREAS - REVISED CONSTRUCTION PROGRAMME FOR BALANCE WORK
5. H4 & H5 AREAS - PROGRESS CONTROL SCHEDULE.

GENERAL DESCRIPTION OF DEVELOPMENT

The UNDP/FAO Report on the 'Master Plan' for Mahaweli Ganga Development was presented in 1968.

Stage 1 of Project 1 of the Master Plan

The diversion dam on the Mahaweli Ganga at Polgolla, a tunnel, a hydro-power station at Ukuwela, the reservoir at Bowatenna on Amban Ganga and the tunnel to divert the water to the Kala Oya basin was undertaken by the Government of Sri Lanka with the aid of an IBRD loan. This work was completed in 1976.

Stage II of Project 1

A contiguous area of 106,000 acs. in the Kala Oya basin benefiting from water diverted from Stage I of the Mahaweli Ganga Development Project is the total area covered by the Credits (see map No. 1). This includes about 35,000 acs. of already irrigated lands. 71,000 acs. is the extent of new land to be developed in the Kala-Oya basin as a result of the diversion. This area is represented by H1, H2, H7, H9, H4 & H5. Of this extent, about 30,700 acs. was taken up for irrigation infra-structure development by the Government of Sri Lanka with its own funds, and work commenced in May 1974.

The total development of the balance 40,300 acs. together with the social infra-structure development of the above 30,700 acs. was taken up with aid funds under Credit agreements with IDA, CIDA, the Netherlands, UK, USAID and the EEC.

The Credit Agreement with IDA was signed in June 1977 and made effective from 29th December 1977. The Credit Agreement with other sources of aid were also made effective subsequently. Details of different credits available are tabulated overleaf.

Agency	Identification No.	Unit	Amount	Status
IDA	701 - CE	US\$.M	19.0	Loan
UK	(No. 2 of '77) (No. 5 of '78) ()	US\$.M	7.2	Grant
Canada (CIDA)	701 - CE	Can\$.M	6.0	Loan
USAID	383-T-018	US\$.M	5.2	Loan
Netherlands	701 - CE	US\$.M	5.0	Loan
EEC		US\$.M	2.24	Grant.

Project Implementation was scheduled to take place over a period of five years from 01.01.1978, but on the decision taken by the Government of Sri Lanka, the implementation of this program was accelerated. It is expected to complete settlement in H4/H5 areas in 1981.

Technical Assistance

The following made their services available during the quarter:

- Mr. D.Campbell - Natural Resources Advisor
- Mr. Shoaib Sultan Khan - UNICEF, Consultant
- Mr. Grant Davids - On Farm Development Advisor
- Prof. John Merriam - Water Management Specialist

Arrivals & Departures

- Mr. E.F.Sullivan - Project Implementation Advisor,
left the Island after serving 2½ years.

DEVELOPMENT WORK IN KALA OYA BASIN (STAGE II: SYSTEM H)

SUMMARY

(H1 Area - 5,100 acs.)

Kalawewa Headworks involving Tank bund and spill improvements and the two new sluices complete. Spill and both sluices are functioning.

Provision of Irrigation facilities for the area is complete and functioning. All of the 2040 farm allotments have been settled.

The provision of additional social infra-structure such as population centres and roads is nearing completion. The status of completion of the estimated requirements of service buildings for one township, two village centres and 23 hamlets is as follows;

13	buildings	complete	and	1	in	progress	for	12	Co-operatives.
4	"	"							for 2 Post Offices.
12	"	"							and 5 in progress for 1 Police Station.
9	"	"							11 in progress for 2 Health Centres.
57	"	"							and 43 in progress for 11 schools.

In addition 29 Agriculture buildings and 69 O & M buildings are complete whilst a further 11 Agriculture buildings are in progress. The entire irrigable area is under cultivation.

(H2 Area - 9,250 acs.)

Irrigation infra-structure facilities are complete and functioning. All of the 3,700 farm allotments have been settled.

The provision of additional social infrastructure is nearing completion.

The status of completion of the estimated requirement of service buildings for one township, 2 village centres and 40 hamlets is as follows;

14	buildings	complete	and	3	in	progress	for	17	Co-operatives.
4	"	"							and 1 in progress for 4 Post Offices.
12	"	"							and 1 in progress for 1 Police Station.
5	"	"							and 13 in progress for 2 Health Centres.
44	"	"							and 57 in progress for 15 Schools.

In addition 25 Agriculture Buildings and 49 O & M buildings are complete whilst a further 17 Agriculture buildings and 6 O & M buildings are in progress.

The entire irrigable area is cultivable.

(H7 Area - 7,200 acs.)

Irrigation infrastructure is complete in an equivalent of 7,000 acs.

The status of completion of infra-structure service buildings for 2 townships, 2 village centres and 26 hamlets is as follows:

6 buildings complete for 6 Co-operatives,
40 " " and 51 in progress for 15 schools,
2 " " and 1 in progress for 3 Post Offices,
5 " " in progress for 2 Health Centres,
1 " " in progress for the branch of the Bank of Ceylon.

In addition 21 Agriculture buildings and 60 O & M buildings are complete whilst a further 7 Agriculture buildings and 10 O & M buildings are in progress.

Of a total of 2,670 farm allotments 2,600 have been allocated;
Of the allocated area viz. (6,500 acs.) about 6,780 acs. are cultivable.

(H9 Area - 5,600 acs.)

The irrigation system is complete in an equivalent of 5,000 acs.

The status of completion of infra-structure service buildings for 1 township, 2 village centres and 22 hamlets is as follows:

4 buildings complete and 3 in progress for 5 Co-operatives,
2 " " and 6 in " " 3 Post Offices,
5 " " and 7 in " " 1 Police Station,
1 " " and 2 in " " 11 Schools,
1 building in progress for the branch of the Bank of Ceylon.

In addition 19 Agriculture buildings and 41 O & M quarters are complete whilst a further 9 Agriculture buildings and 5 O & M buildings are in progress.

Of a total of 2,000 farm lots 1,850 have been allocated. Of the allocated extent (4,625 acs.) about 4,300 acs. are cultivable.

(H4 Area) 20,000 acs.

24,700 acs. of jungle has been cleared in the H4 area. Kalawewa Right Bank main Canal excavation is complete while the civil works in the main canal structures are complete. The canal is functioning at present. Work in the branch channels are nearing completion whilst distributory and field channels are in progress. 255 infrastructure buildings are complete and work is in progress in a further 129 buildings. Total number of proposed buildings is 652.

Formation of 36 miles of Market Roads complete. Metalling and tarring is in progress in 10 miles.

Over 5,225 settlers have been assigned farm lots in this area. Of the settled area about 6,800 acs. have been machine developed. The marking of Farm Bunds in 3530 lots are complete. Manual land development is complete in 970 acs. and a further 2,540 acs. is in progress.

Of the area settled about 4,000 acs. are cultivable.

(H5 Area) 14,000 acs.

20,100 acs. of jungle clearing is complete. Work is in progress in branch, distributory and field channels. Construction of 100 infrastructure buildings are complete and 156 are in progress out of a proposed 590 buildings.

Formation of 35 miles of Market Roads complete out of a total of 40 miles.

Settlement is in progress with about 3240 settlers already assigned farm lots. Of the settled area about 2,300 acs. have been machine developed. The marking of Farm Bunds in 2,000 lots are complete and manual land development is complete in 120 acs. and a further 2,100 acs, is in progress. Of the developed area about 2,000 acs. are cultivable.

INDICES OF THE STATUS OF PHYSICAL DEVELOPMENT - H4, H5 AREAS

The progress of construction of physical infrastructure in Areas H4 / H5 is given below as indices against the major items of work;

<u>1. Irrigation Infrastructure</u>	<u>% Complete</u>
1. Jungle Clearing	99
2. Right Bank Main Canal excavation	99
Right Bank Main Canal structures	98
3. Branch Canal excavation	98
Branch Canal structures	95
4. Distributory channel excavation	94
Distributory channel structures	98
5. Improvements to village tanks	11
6. Field Channel excavation	83
Field Channel structures	73
7. On-Farm Development	
- Marking of farm bunds	46
- Machine Development	31
- Asweddumization	4
<u>2. Social Infrastructure</u>	
1. Road - Formation	95
- Structures	88
- Metalling & Tarring	1
2. Buildings	
- Project Management	67
- Services	16

IRRIGATION INFRASTRUCTURE

H4 Area (Kalaveva R.B.)

Progress upto end of September 1980

Description	Unit	Total estd. qty.	Comptd. upto 1979	Progrm. 1980	for 1981	1980	Cumulative		Achievement Target	
						1st.Qrt.	2nd Qrt.	3rd Qrt.	4th Qrt.	
1. Kalaveva R.B.										
<u>Main Canal (0-14 mls.)</u>										
Earthwork	cu.	452,000	452,000	nil	-					
Rock	cu.	57,800	57,800	nil	-					
Structures	nos.	31	31	nil	-					
2. Br. Chl. Nos. 1, 3, 4 & 6										
Earthwork	chs.	667	627	40	-	<u>Comp</u> 40	<u>Comp</u> 40			Comp
Structures	nos.	83	70	13	-	<u>12/1</u> 13	<u>13*</u> 13			<u>13*</u> 13
3. Jungle Clearing	acs.	24,825#	24,060	765	-	<u>50</u> 50	<u>682</u> 500			<u>682</u> 765#
4. <u>D*Channel Excavation</u>	chs.	6,600	5,600	1,000	-	<u>223/528</u> 300	<u>340/520</u> 700			<u>600/245</u> 1,000
Structures	nos.	1,565	1,170	425	45	<u>130/120</u> 100	<u>180/85</u> 250			<u>202/82</u> 425
5. <u>Tank Improvements</u>	mos.	60	nil	60	-	<u>-/28</u> 20	<u>-/36</u> 20			<u>3/44</u> 60
6. <u>F*Chammel Excavation</u>	chs.	16,640#	11,690	4,700	-	<u>969/110</u> 1,500	<u>1500/110</u> 3,000			<u>1875/190</u> 4,700
Structures	nos.	10,550	6,190	3,600	760	<u>840/120</u> 600	<u>1050/120</u> 1,500			<u>1495/112</u> 3,600
7. <u>Drainage Chls. Excavation</u>	chs.	9,550	1,800	6,800	950	<u>570</u> 2,000	<u>5590</u> 4,500			<u>5940</u> 5,500
										<u>6,800</u>

Revised

*Complete except fittings.

H 5 Area (Kalawewa RB)

Description	Unit	Total estd. qty.	Comptd. upto 1979	Progrm. for 1980 1981	1980 - Cumulative		Achievement Target		
					1st Qrt.	2nd Qrt.	3rd.Qrt.	4th Qrt.	
1. <u>Kalawewa RB</u>									
<u>Main Canal (14-28 mls.)</u>									
Earthwork	cu.	356,500	348,600	7,900	-	$\frac{\text{nil}}{3000}$	$\frac{\text{nil}}{5000}$	$\frac{\text{nil}}{7900}$	
Rock	cu.	15,000	15,000	nil	-				
Structures	nos.	38	29	9	-	$\frac{-/9}{9}$	$\frac{-/9}{9}$	$\frac{5/4}{9}$	
2. <u>Br. Chls. Nos. 7 & 8</u>									
Earthwork	chs.	400	362*	38	-	$\frac{\text{nil}/38}{38}$	$\frac{-/38}{38}$	$\frac{-/38}{38}$	
Rock	cu.	4,600	1,200	3,400	-	$\frac{600}{\text{nil}}$	$\frac{600}{3,400}$	$\frac{952}{3,400}$	
Structures	nos.	51	37	14	-	$\frac{5/5}{\text{nil}}$	$\frac{5/5}{14}$	$\frac{6/4}{14}$	
3. <u>Jungle Clearing</u>									
	acs.	21,125**	19,625	1,500**	-	$\frac{-}{1575}$	$\frac{1500}{1500**}$	comp.	
4. <u>D'Channel</u>									
Excavation	chs.	4,900	3,760	1,140	-	$\frac{329/552}{200}$	$\frac{370/620}{400}$	$\frac{411/580}{650}$	$\frac{1140}{1140}$
Structures	nos.	1,100**	915	140	45**	$\frac{13/36}{50}$	$\frac{60/9}{75}$	$\frac{2/96**}{100}$	$\frac{140}{140}$
5. <u>Tank Improvements</u>									
	nos.	40	5	35	-	$\frac{15}{15}$	$\frac{4/12}{20}$	$\frac{2/23**}{35}$	$\frac{35}{35}$
6. <u>F'Channel</u>									
Excavation	chs.	11,600	6,460	4,180	960	$\frac{1,235}{1,000}$	$\frac{2,720}{2,500}$	$\frac{3260/20}{3,500}$	$\frac{4,180}{4,180}$
Structures	nos.	6,950	2,510	3,340	1,100	$\frac{635}{1,000}$	$\frac{1,230}{2,000}$	$\frac{2,510}{3,190}$	$\frac{3,440}{3,440}$
7. <u>Drainage Channel</u>									
Excavation	chs.	8,970	3,130	4,640	1,200	$\frac{500}{1,800}$	$\frac{2,760}{3,000}$	$\frac{4,380}{3,800}$	$\frac{4,640}{4,640}$

** Revised.

*Complete, except bund formation in a length of 129 chains.

H7 Area (Kandalama RB)

Description	Unit	Total estd. qty.	Comptd. upto 1979	Program for		1980 - Cumulative(Achievement/Target			
				1980	1981	1st.Qrt.	2nd Qrt.	3rd Qrt.	4th Qrt
1. <u>Kandalama R.B.</u>									
<u>Main Canal upto 22 miles</u>									
Excavation (earth)	chs.	1,170	1,170	nil	-				
(rock)	cu.	9,550	9,550	nil	-				
Structures	nos.	113	113	nil	-				
2. <u>Br. Chl. No. 1</u>		C O M P L E T E							
3. Jungle Clearing	acs.	7,000	7,000	nil	-				
4. D'Chl. Excavation	chs.	2,200	2,200	nil	-				
5. D'Chl. Structures	nos.	623	623	nil	-				
6. F'Chl. Structures	chs.	7,700	7,620	80	-	$\frac{20}{30}$	$\frac{20}{80}$	$\frac{20}{80}$	
7. F'Chl. Structures	nos.	5,410	4,490	920	-	$\frac{51}{250}$	$\frac{51}{500}$	$\frac{51}{920}$	
8. Drainage Channel	chs.	4,450	3,610	840	-	$\frac{52}{200}$	$\frac{52}{400}$	$\frac{52}{600}$	<u>840</u>

H 9 Area (Dambulu Oya)

Description	Unit	Total estd. qty.	Completed upto 1979	Program for		1980 - Cumulative (Achievement/Target)			
				1980	1981	1st Qrt.	2nd Qrt.	3rd Qrt.	4th Qrt.
<u>1. L. B. Main Canal</u>									
Excavation	chs.	203	203	nil	-				
Structures	nos.	20	20	nil	-				
<u>2. Br. Chl. No. 2</u>									
Excavation	chs.	280	280	nil	-				
Structures	nos.	27	27	nil	-				
<u>3. Jungle Clearing</u>									
4. D'Chl. Excavation	chs.	1,800	1,800	nil	-				
5. D'Chl. Structures	nos.	420	420	nil	-				
6. F'Chl. Excavation	chs.	4,600	4,370	230	-	$\frac{50}{75}$	$\frac{53}{230}$	$\frac{55}{230}$	
7. F'Chl. Structures	nos.	3,890	2,310	1,580	-	$\frac{70}{500}$	$\frac{70}{1000}$	$\frac{70}{1580}$	
8. Drainage Chls.	chs.	3,860	1,820	2,040	-	$\frac{125}{500}$	$\frac{347}{1000}$	$\frac{350}{1500}$	<u>2040</u>

ORDER OF COMPLETION OF IRRIGATION INFRASTRUCTURE IN BLOCKS

H 4 & H 5 - AREAS

The term 'block' denotes a parcel of land within the irrigation system bounded by topographic features (natural streams, irrigable contours and ridge formations) and separately identified for convenience of management.

H4 area comprises blocks 401 to 410 and H5 area 411 to 421 (416 excised). The irrigation development consists of the following items of physical work, within the block.

1. Jungle Clearing.
2. Layout and construction of Distributory Canals.
3. Improvement/Construction of village tanks.
4. Layout and construction of Field Canals.
5. Layout and construction of turnout drains.

For the purpose of evaluation of physical progress, a single index representing the status of physical development associated with the block is computed using the relative contribution (%) of each of these items in cost terms as follows;

1. J. C.	33%
2. D.Chl. Excavation	10%
3. D.Chl. Structures	20%
4. Tank Improvements	10%
5. F. C. Excavation	8%
6. F. C. Structures	17%
7. Drains	2%

<u>Block</u>	<u>Percentage</u>
401, 402, 406, 407, 413, 414 & 421	95
405, 412 & 415	90
403, 408, 417 & 420	85
410	75
404, 411	70
418	65
409 & 419	55

Detail workings of the above figures are tabulated on the following page.

ITEMWISE CONTRIBUTION ON THE BLOCK COMPLETION

Block	Jungle Clearing	D'Chl.		F'Chl.		Drainage Chl.	Tank Imp- rovements (nos.)	Total
		Ex.	Str.	Ex.	Str.			
	%	%	%	%	%	%	%	%
401	33	10	20	8	16.1	1.8	4.2	95
402	33	10	20	8	17	2.0	8.7	95
403	33	10	20	7.8	13.5	1.9	0.35	85
404	33	10	15.4	4.6	5.1	0.7	nil	70
405	33	10	20	6.4	14.5	nil	6.7	90
406	33	10	19.6	8.0	16.6	2	8.5	95
407	33	10	20	8.0	17.0	2	8.6	95
408	32.5	9.5	20	7.5	7.3	nil	6.8	85
409	32.4	6.8	10.1	1.7	2.7	nil	3.6*	55
410	33	10	13.9	4.0	9.0	1.6	4.9	75
411	23	9.2	10.8*	6.4	13.1	1.0	7.5	70*
412	33	10	20	7.9	12.7	1.9	3.1	90
413	33	10	20	7.1	14.4	1.9	9	95
414	33	10	20	7.9	15.8	1.6	6.5*	95
415	33	10	20	8	12.1	1.8	3.9	90
417	33	9.7	20	7.8	11.9	1.8	2	85
418	33	4.2	9.2	6.4	10.4	1.6	0.4	65
419	33	7.1	12.4	nil	0.4	nil	nil	55
420	33	10	20	5.9	16.3	0.5	2.9	85
421	33	10	20	8	17	2	4.3	95

* error in processing rectified.

SOCIAL INFRASTRUCTURE AND O & M BUILDINGS

The table given overleaf is a summary of the full complement of service buildings indicated on an area and location basis together with the No. completed and in progress.

In January 1980, an assessment was made of the number of buildings not yet commenced. Accordingly 530 buildings were identified into 14 package contracts to be awarded on local competitive bidding, the balance of 400 buildings were left out to be awarded on small scale contract.

Pre-qualified contractors were invited to bid for these package contracts and subsequently 3 of these contracts were awarded during the previous quarter and 8 more for the construction of 400 buildings in the quarter under review. The award of the balance contracts are underway.

Type of Facility	H1			H2			H7			H9			H4			H5		
	No. of Cen- tres#	No. of Bldgs. Total Com/in prog.	Cum. Pro- gram gram	No. of Cen- tres#	No. of Bldgs. Total Com/in prog.	Cum. Pro- gram gram	No. of Cen- tres#	No. of Bldgs. Total Com/in prog.	Cum. Pro- gram gram	No. of Cen- tres#	No. of Bldgs. Total Com/in prog.	Cum. Pro- gram gram	No. of Cen- tres#	No. of Bldgs. Total Com/in prog.	Cum. Pro- gram gram	No. of Cen- tres#	No. of Bldgs. Total Com/in prog.	Cum. Pro- gram gram
O & M																		
Offices	12	42/2	44	4	42/2	44	3	45/12	52	2	29/5	30	12	153/128/22	130	12	119 50/47	88
Stores & Workshop	2	5/1	5	3	5/1	5	3	9/2	9	2	9/2	9	2	14 10/4	9	12	2 1/1	6
Sub Total	1	2/2	1	3	2/2	2	3	4/2	4	2	3/2	3	2	11 9/1	5	12	17 2/8	6
Agric. Buildings																		
Grain Stores	27	21/6	24	20	21/8	20	20	20/3	21	21	18/6	21	21	64 37/23	51	6	91 40/44	44
Fertilizer Stores	14	4/5	5	3	3/7	3	3	1/2	1	2	1/2	1	2	13 2/2	4	7	14 1/11	4
A.T.C. Bldgs.	3	3/2	3	3	1/1	1	3	1/2	1	1	1/2	1	12	6 2/4	4	12	7 -/5	7
A.S.C.	12	24/11	24	24	24/12	24	24	31	24	24	32 19/8	24	28	83 41/29	57	21	112 41/60	85
Sub Total	106	57/43	89	15	44/57	100	15	111 40/51	68	11	83 1/2	16	28	250 22/55	85	21	260 -/15	85
Co-ops.																		
L.S.	4	4/2	4	3	3/2	3	3	5/2	5	3	3/2	3	3	7 3/4	5	6	6 1/3	6
S.S.	6	5/1	5	13	11/3	13	13	1/2	1	1	1/2	1	1	6 1/3	3	7	7 3/4	7
Complex	01	3/2	3	-	-/2	-	-	-/2	-	-	-/2	-	-	8 7/1	8	2	8 -/2	8
Super Market	14	13/1	14	16	14/3	16	16	6/2	6	5	4/3	5	15	21 11/8	16	15	21 4/7	15
Sub Total	1	1/2	1	2	3/2	2	2	2/2	1	2	2/2	2	2	7 4/2	4	6	6 2/3	6
Post Office																		
S.P.O.	1	1/2	1	3	3/2	3	3	2/2	1	1	2/2	1	2	4 4/2	4	2	12 -/2	12
P.O.	5	3/2	3	2	1/2	2	2	3/1	2	3	8/6	3	2	24 -/2	24	8	18 2/3	18
Sub Total	6	4/2	4	5	4/2	5	5	5/1	3	3	8 2/6	3	4	31 4/4	4	10	30 -/2	30
Police																		
Police	17	12/5	13	13	12/1	13	13	-/2	-	1	14 5/7	8	2	33 27/6	23	1	1 -/1	1
Health																		
Health Centres	2	33 9/11	12	2	5/1	2	2	11 -/5	5	1	-/2	-	1	48 -/2	48	2	34 -/17	34
Malaria Centres	1	2 -/2	2	3	-/1	3	3	1 -/2	1	2	4 -/2	4	1	1 2 -/2	2	1	1 -/2	1
Sub Total	3	35 9/11	14	5	5/13	5	5	12 -/5	5	3	4 -/2	4	2	50 -/2	50	3	35 -/17	35
Banks																		
B.C.	1	3 -/2	3	3	-/2	3	3	3 -/1	3	1	3 -/1	3	1	3 -/2	3	1	3 -/2	3
P.B.	1	3 -/2	3	3	-/2	3	3	3 -/1	3	1	3 -/1	3	1	3 -/2	3	1	3 -/2	3
Sub Total	2	6 -/2	6	6	-/2	6	6	6 -/1	6	2	6 -/1	6	2	6 -/2	6	2	6 -/2	6
TOTAL	298	153/71	294	206	154/77	203	207	154/77	196	207	77/32	104	553	255/129	337	590	101/156	196

* In respect of O & M and Agric. buildings no. of stores generate the no. of bldgs. and village centres in which these buildings are located in groups.
 ** Original and indices were compiled at 2 blocks per village. All are counted.
 *** Including Embarkment and Workshop & Shop bldgs.
 **** Main location of buildings in H4/25 areas are given in Map No. 1.

14

MARKET ROADS

The total length of roads in the 'H' area is 128 miles. Of this quantity, partial funding under the credit agreement is available for 75.5 miles of roadways in the H4 / H5 areas.

The length of roadway under 100% local funding in the H1, H2, H7 & H9 areas is 52.5 miles of which, formation in 30 miles is complete. Formation in the balance 22.5 miles is in progress. Surfacing of 7.75 miles complete and 14.5 miles is in progress.

Of the roads funded under the credit agreement, formation of 71.75 miles is complete and the balance 3.75 miles is in progress.

Local competitive bids were invited for the surfacing of 58 miles of roads in the H4 / H5 areas and contracts were awarded for same. of the balance 17 miles, surfacing of 9.5 miles is in progress.

The status of construction work on roads, as at the end of the quarter, is tabulated below.

Area	Description	Unit	Total estd. qty.	Prog. upto 31.6.80	Prog. upto 30.9.80	Progress during the quarter
H1 & H2	Formation	mls.	20	C O M P L E T E		-
	Metalling & tarring	mls.	20	7.5/5	7.75/5	0.25
	Structures			C O M P L E T E		
H7	Formation	mls.	10**	C O M P L E T E		-
H9	Formation	mls.	22.5	-	-/22.5	-/22.5
H4	Formation	mls.	36.5	26.5/10	36.5	10
	Metalling & tarring	mls.	36.5	-/7	-/9.5	-/2.5
	Structures	nos.	106	94/10	94	nil
H5	Formation	mls.	39	29.3/8.7	35.25/3.75	5.95
	Metalling & tarring	mls.	39	nil	nil	nil
	Structures	nos.	135*	120/6	120/6	nil

* Revised.

** Error in processing rectified.

HAMLET ROADS & WELLS

The construction of hamlet roads and wells in H1, H2 areas are complete.

In the H7/H9 areas, 140 miles of roads of a total of 150 miles is complete. The construction of well in these areas was taken over by RPM (Kalawewa) with UNICEF assistance.

In the H4/H5 areas, 240 miles of roads of a total of 435 miles is complete and work in 50 miles of roads is in progress. The rates for construction of wells was revised during the period under review. Consequently, construction of 15 wells is complete and work in 315 is in progress of a total estimated No. of 1250.

The status of the construction of Hamlet roads and wells as at the end of the quarter is tabulated below.

Description of Work	Unit	Total estd. qty.	Cumulative progress.	Progress during the Qrt.
<u>H1 Area</u>				
a. Roads	mls.	-	complete	
b. Wells (Galnewa region)	nos.	86	"	
<u>H2 Area</u>				
a. Roads	mls.	-	complete	
b. Wells (Meegalewa region)	nos.	50	"	
<u>H7 Area</u>				
a. <u>Hamlet Roads</u>				
i. (Formation)				
Blocks: 101,102,103 & 104	mls.	95	84/11	29/8
ii. (Structures)				
Blocks: 101,102,103 & 104	nos.	303	146/68	52/4
b. Village Wells				(Construction taken over by RPM)
<u>H9 Area</u>				
a. <u>Hamlet Roads</u>				
i. (Formation)				
Blocks: 201,202,203,204 &205	mls.	58	55/2.5	10/-
ii. (Structures)				
Blocks: 201,202,203,204 &205	nos.	393	82/7	71/7
b. Village Wells				(Construction taken over by RPM)

Description of work	Unit	Total estd. qty.	Cumulative progress	Progress during the Qrt.
<u>H 4 Area</u>				
a. <u>Hamlet Roads</u>				
i. (Formation)				
Blocks: 401,402,403,404,405,406, 407,408,409 & 410	mls.	250*	151/23	32/-
ii. (Structures)				
Blocks: 401,402,403,404,405,406, 407,408,409 & 410	nos.	1250*	381/289	288/218
b. Wells	nos.	740	13/250	8/150
<u>H5 Area</u>				
a. <u>Hamlet Roads</u>				
i. (Formation)				
Blocks: 411,412,413,414,415,417, 418,419,420, & 421	mls.	185	68/16	26
ii. (Structures)				
Blocks: 411,412,413,414,415,417, 418,419,420 & 421	nos.	800*	369/100	212/17
b. Wells	nos.	500*	2/65	2/13

* Revised.

LAND ACQUISITION & COMPENSATION

The Status of Land Acquisition and Compensation as on the end of the quarter is tabulated below.

Area	Total No. of villages	No. acquired	Compensation inquiries held	Compensation paid
H1	25	25	21	11
H2	31	31	7	3
H7	54	54	23	7
H9	39	39	26	4
H4	107	87	-	-
H5	60	45	-	-

SETTLEMENT

Settlement in H1 and H2 were completed in 1979. Settlement was virtually complete in Areas H7 and H9, whilst in areas H4 and H5 settlement was to continue into 1981.

S E T T L E M E N T

Area	Block No.	Total Farm* allotments	Settlement upto 31.6.80	Settlement upto 30.9.80	Settlement during the Quarter	No.of Farm allotments to be settled.
H 1	301,302,303,304 & 308	2040		C O M P L E T E	-	-
H 2	305,306,307,309,310, 311,312,313 & 314	3698		C O M P L E T E	-	-
H 7	101	503		C O M P L E T E	-	-
	102	459		C O M P L E T E	-	-
	103	820	731	808	77	12
	104	885	698	829	131	56
		<u>Total</u>	<u>2667</u>	<u>2391</u>	<u>2599</u>	<u>208</u>
		=====	=====	=====	=====	=====
H 9	201	504	466	466	-	38
	202	468	452	456	4	12
	203	405	236	321	85	84
	204	479	471	473	2	6
	205	135	133	133	14	2
			<u>1991</u>	<u>1750</u>	<u>1770</u>	<u>91</u>
		=====	=====	=====	=====	=====

*Revised.

Area	Block No.	Total Farm allotments	Settlement upto 30.6.80	Settlement upto 30.9.80	Settlement during the quarter	No. of Farm Allotments to be settled
H 4	401	1200	1159	1181	22	19
	402	800	720	738	18	62
	403	900	824	860	36	40
	404	450	305	448	143	02
	405	1200	284	825	541	375
	406	500	-	225	225	275
	407	530	444	451	7	79
	408	450	-	216	216	234
	409	850	-	111	111	739
	410	450	-	170	170	280
	Total	<u>7330</u> =====	<u>3736</u> =====	<u>5225</u> =====	<u>1489</u> =====	<u>2105</u> =====
H5	411	650	196	198	2	452
	412	680	634	663	29	17
	413	500	380	458	78	42
	414	620	484	568	84	52
	415	400	334	374	40	26
	417	650	-	507	507	143
	418	420	-	-	-	420
	419	450	-	-	-	450
	420	330	-	213	213	117
	421	320	253	257	4	63
		Total	<u>5020</u> =====	<u>2281</u> =====	<u>3238</u> =====	<u>957</u> =====

SUMMARY OF PROGRESS - ON FARM DEVELOPMENT (H4 & H5)

Block No.	Total requiring development (No. of Plots)	No. Settled	Bund cum achievement	Marked during the Qrt.	Initial Cum. achievement	Number of Farms Tillage (Apprôx) during the qrt.	Assweddumized Cum. Achievement	During the qrt. (comp)
401	978	1181	803	101	763	59	259/900	11
402	767	738	679	14	672	4	469/242	2
403	802	860	642	144	408	26	243/581	97
404	450	448	143	100	138	96	1/141	1
405	1200	825	256	256	158	158	-/131	-
406	560	225	312	312	150	150	-/95	-
407	464	451	364	221	123	59	-/450	-
408	400	216	90	90	73	73	-	-
409	825	111	-	-	-	-	-	-
410	<u>420</u>	<u>170</u>	<u>240</u>	<u>240</u>	<u>239</u>	<u>239</u>	-	-
Sub Total	6866	5225	3529	1478	2724	864	972/2540	111
411	600	198	48	48	24	24	-	-
412	664	663	537	158	347	109	38/595	38
413	544	458	400	311	59	13	-/448	-
414	590	568	424	124	192	24	-/559	-
415	394	374	298	188	111	19	25/322	25
417	630	507	-	-	-	-	-	-
418	475	-	-	-	-	-	-	-
419	500	-	-	-	-	-	-	-
420	340	213	35	35	44	44	-	-
421	<u>333</u>	<u>257</u>	<u>259</u>	<u>52</u>	<u>158</u>	<u>26</u>	<u>55/199</u>	<u>55</u>
Sub Total	5070	3238	2001	916	935	259	118/2123	118
TOTAL	<u>11936</u> =====	<u>8463</u> =====	<u>5530</u> =====	<u>2394</u> =====	<u>3659</u> =====	<u>1123</u> =====	<u>1090/4663</u> =====	<u>229</u> =====

THIRD QUARTER REPORT OF THE QUALITY CONTROL UNIT FOR SYSTEM 'H'

The principle activities of the Unit during the above period were as follows;

1. Bridge over the Yoda Ela at Kekirawa-Anuradapura:- Road concreting in 2 abutments was in progress. The cubes which were cast during the quarter were tested and found satisfactory. Slump tests were carried out to control moisture. Whenever the moisture was not sufficient, the contractors were instructed to use the proper amount of water.
2. Bridge over Kala Oya at Endagala road:- Deck concreting was in progress. Slump tests to control moisture content were carried out.
3. Meegassegama tank improvement work:- 8 field density tests were carried out and 5 were found to be not up to the proper standard. The contractor was instructed to re compact earth in places where the densities were low.
4. Yakkalle-Korasagalle road:- As requested by R.E. (Madatugama) in place densities and compact field densities were checked for 2 borrow areas.
5. Talawa - Ihala Andarawewa road:- Work recommenced during the quarter. Borrow areas were tested. 15 field density tests were done. The degree of compaction was found to be satisfactory.
6. Andiyagala - Madatugama road:- As instructed by A.G.M.(C), Maha Iluppallama, the borrow areas were tested. Field density tests were carried out to determine moisture and the degree of compaction. 10 tests were performed and 8 were found unsatisfactory. Informed A.G.M.(C), Madatugama, who took action regarding this.
7. Retaining wall in branch channel No. 8 at Kongahagama:- Concreting of the above was in progress and quality control work was organised on 2 shift basis by this Unit. Slump tests and cube tests were carried out. According to the results of the crushing tests, it was observed that the strength was quite sufficient.
8. Casting yard at Nallachchiya:- Slump tests were carried out to control the moisture and cubes were cast to check the strength. The results indicated that the work was not satisfactory. Informed D.R.E. (Nochchiyagama) regarding this who took corrective action.

PROJECT MANAGEMENT ACTIVITIES

1. AGRICULTURAL ACTIVITIES

1.1. General

The quarter in review coincided with the end of Yala 1980 cultivation season. Since the unusual drought conditions prevailing throughout the country resulted in low availability of water at the storage reservoirs, at the commencement of the cultivation season, arrangements were made to promote the cultivation of other field crops instead of paddy. As a result, cultivation of upland crops showed a nine fold increase over the previous Yala Season (for details of the steps taken to promote the cultivation of upland crops see page 26 - Progress Report - 2nd Quarter).

1.2. Extent Cultivated

The figures reported for Yala 1980 are as follows;

Region	Extent Cul- tivable(Ac)	Extent Cultivated(Ac.)		
		Paddy	Other Crops	Total
Galnewa - H1 & Part H2	9,400	7775	600	8375
Meegalewa - Balance H2	4,200	340	625	965
Eppawela & Thambuttegama H4)	6,000	685	560	1245
Talawa & Nochchiyagama H5 }		700	115	815
Kandalama - H6 & H8	4,000	1800	630	2430
Madatugama - H7	6,780	410	865	1275
Galkiriyagama - H9	4,300	2050	800	2850
Total	34,680 =====	13760 =====	4195 =====	17955 =====

Extents cultivated under different upland crops are tabulated overleaf.

EXTENT UNDER OTHER FIELD CROPS (ACRES)

<u>Crops</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>H 4</u>	<u>H 5</u>	<u>Kandalama</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>	<u>Total</u>
<u>Field Crops</u>								
Chillies	374	114	165	-	300	530	660	2143
Green Gram	19	70	25	25	38	24	10	211
Black Gram	03	04	08	-	03	03	-	21
Cowpea	86	243	329	90	42	181	22	993
Soyabeans	13	35	18	-	19	15	06	106
Ground Nut	-	14	02	-	-	01	02	19
Tobacco	10	-	-	-	-	-	-	10
<u>Other Crops</u>								
Cabbage	05	19	-	-	04	02	-	30
Capsicum Chillies	23	26	-	-	99	37	26	211
Tomato	-	-	-	-	-	19	09	28
Beans	-	-	-	-	-	-	09	09
Onions	02	29	13	-	28	15	03	90
Other Vegetables	65	71	-	-	97	38	53	324
Total	<u>600</u> =====	<u>625</u> ====	<u>560</u> ====	<u>115</u> =====	<u>630</u> ====	<u>865</u> =====	<u>800</u> =====	<u>4195</u> =====

1.2. Fertilizer Application

The total consumption of fertilizer for both paddy and upland crops in different areas is as follows;

<u>Region</u>	<u>Basal (cwt)</u>	<u>Top Dressings (cwt)</u>		<u>Total</u>
	<u>V1 + N.P.K.</u>	<u>Urea</u>	<u>T.D.M.</u>	
Galnewa	3000	3600	850	7450
Meegalewa	230	270	140	640
Madatugama	160	180	215	555
Eppawela & Thambuttegama	<u>185</u>	<u>200</u>	<u>100</u>	<u>485</u>
Total	3575 =====	4250 =====	1305 =====	9130 =====

1.3. Control of Pests & Diseases

1.3.1. Paddy : During the quarter in review, no specific pest or disease problems were encountered with regard to paddy.

1.3.2. Upland Crops:

- a. Pests: In some instances chillie crop was affected by caterpillar at the collar region of the stem.
- b. Diseases: Although there were no serious outbreaks of diseases, chilli crop was occasionally affected by tender pods and flower drop.

In addition Onion was affected by abnormal leaf growth and excessive tip drying and cabbage by sun burn.

All these cases were promptly communicated to the Maha-Iluppallama Research Station and short term trials were carried out with a view of understanding the nature of the problem and to look for possible solutions.

In addition attention of the preparatory teams of Regional Technical Working Group (RTWG) for Yala 1981 was directed towards the problems mentioned above.

1.4. Farmer Training

Fortnightly training program for the farmers was continued during the quarter. (for details see page 43).

1.5. Field Tours for Farmers

In order to make the farmers aware of the cultural practices adopted for upland crops by their counterparts in other regions, field tours were organized. Further, some farmers were taken to In Service Training Institute - Maha Iluppallama (ISTI / MI) for them to get familiarized with modern crop husbandry practices for upland crops.

Activities carried out in this sphere are summarized below.

<u>Region</u>	<u>No. visited farmer's field in other regions</u>	<u>No. visited ISTI/M.I.</u>
1. Galnewa	80	-
2. Meegalewa	40	40
3. Madatugama	<u>50</u>	<u>50</u>
Total	170	90
	===	===

1.6. Officer Training

Fortnightly training of K.V.S⁹ and A.I.^S was continued during the quarter. In addition pre-seasonal training for 1980/81 Maha for the field officers was conducted during the quarter.

Following were the topics discussed at the training sessions;

1. Soil problems.
2. Cultural & Mechanical methods of weed control.
3. Improved Dapog Nursery system for paddy.
4. Use of fertilizer in paddy and upland crops.

Summary of the Officer Training Program

<u>Designation</u>	<u>No. of Officers</u>	<u>Venue</u>	<u>Duration (weeks)</u>	<u>Course</u>
S.M.O.	5	ISTI/M.I.	1	Pre-seasonal training
A.I.	3	ISTI/ Bandarawela	1	Vegetable cultivation
K.V.S.	10	ISTI/ Gannoruwa	1	Paddy production
K.V.S.	15	FMTC/ Anuradapura	2	Plant production equipment

1.6.2. Field Day

A Field Day was organized for the members of the Regional Technical Working Group/ M.I. Selected paddy fields were visited by the delegates with a view of evaluating the water management aspects of upland crops cultivated in paddy fields during Yala.

1.7. Visits

Following visits were made to the project area during the quarter.

1. Dr. C. R. Panabokke, Director of the Dept. of Agriculture visited on an inspection tour in July.
2. Delegates for the 7th International Seminar on Planning and execution of Agricultural Extension, visited in September.

1.8. Miscellaneous

1. Initial Planning of the Adaptive Research for Maha 1980/81 was completed during the quarter.
2. Preliminary, Secondary and Final judging of the cultivation competition for upland crops in Yala 1980 was concluded.

2. ANIMAL HUSBANDRY ACTIVITIES

2.1. Livestock Farms

Two livestock farms have been set up in the project area at Neeraviya (H2), and Kalankuttiya (H1), on lands that are unsuitable for cultivation purposes.

Neeraviya farm, consisting of about 400 acres was established in 1980. Although cattle are the main component, the farm contains goats, ducks and poultry as well. The main objectives of the farms being to distribute farm animals and dairy products to the settlers interested and to provide them with an efficient extension service in animal husbandry activities.

Kalankuttiya is solely a buffalo farm, which was established with a view of providing the farmers with adequate farm power. There has been an increasing demand for buffaloes in the project area.

In addition to the animal husbandry activities, Neeraviya farm maintains a nursery of various fruit plants, shade trees and flower plants etc., to be distributed among the farmers interested.

Details of Livestock farms are summarized below;

A. Neeraviya Farm

1. <u>Cattle</u>	<u>Heifers</u>	<u>Cows</u>	<u>Calves</u>	<u>Bulls</u>	<u>Total</u>
Stocks as at end of September 1980	137	17	103	81	492
Number purchased during the quarter	10	19	18	12	59
Number sold during the quarter	-	01	09	-	10

2. <u>Goats</u>	<u>Adult Animals</u>		<u>Young Animals</u>		<u>Studs</u>	<u>Total</u>
	<u>Males</u>	<u>Females</u>	<u>Males</u>	<u>Females</u>		
Stocks as at end of Sept. 1980	16	57	18	38	09	138
No. purchased during the quarter	-	12	-	-	08	20
No. sold during the quarter	03	-	-	-	-	03

3. <u>Ducks</u>	<u>Adults</u>	<u>Ducklins</u>
Stocks as at end of Sept.'80	265	-
No. hatched during the qrt.	-	105
No. sold	02	-

B. Kalankuttiya Farm

<u>Buffaloes</u>	<u>Studs</u>	<u>Bulls</u>	<u>Calves</u>	<u>Heifers</u>	<u>Total</u>
No. Purchased	02	48	09	39	98
No. sold	-	16	-	-	16

A total of 82 animals were available at the end of the quarter at Kalankuttiya farm.

2.2. Credit Facilities

With a view of encouraging the farmers to purchase Livestock required for the household needs as well as farm power, financial assistance is given through a credit scheme, sponsored by the People's Bank and the Bank of Ceylon.

Following are the rates fixed by the Banks concerned;

An adult Bull or Buffaloe	Rs. 1,500/-
Milking Cow	Rs. 2,848/-
Poultry (per animal)	Rs. 8/50

In addition negotiations are underway to establish credit facilities for the purchase of Goats and Ducks. Credit was made available to purchase poultry for the settlers, the details of which are given below;

<u>Region</u>	<u>No. of chicks purchased</u>	<u>Amount issued (Rs.)</u>
Meegalewa	1102	9,367.00
Madatugama	268	2,278.00
Total	1370	11,645.00
	====	=====

3. COMMUNITY DEVELOPMENT ACTIVITIES

(Areas H1, H2, H7 & H9)

3.1. Health Activities

3.1.1. Malaria Prevention

Since Malaria has been identified as the main Health hazard in the project area, special efforts are being taken in the control of Malaria in collaboration with the Anti Malaria campaign. During the quarter in review the number of prevention centres were increased from 116 to 123. No deaths due to Malaria has been recorded during the quarter. The following table indicates the activities carried out in this sphere,

<u>Region</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
No. of volunteers available	137	66	93	117
No. of prevention centres functioning	36	23	32	32
No. of patients treated	173	94	30	29
Tablets issued: Camoquin	1080	-	190	35
Primaquin	1280	940	280	250
Chloroquin	130	940	-	215
No. of houses sprayed	2900	1990	1275	1600
No. of film shows	03	02	"	"

In addition 4 sessions were held in Galnewa Region on the following topics.

1. Importance of indoor spraying.
2. Five day treatment for Malaria.
3. Methods of spreading of Malaria.

Further three training camps were organized for volunteers in Galkiriyagama region.

3.1.2. Public Health Activities

Public Health activities carried out in collaboration with the Health Department were continued. These activities have been planned to provide better sanitary conditions as well as to educate the farmers through a rotational health education program.

<u>Region</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
No. of visiting clinics held for mothers & children	09	06	01	05
No. immunized**				
Mothers	253	60	12	40
Children	580	300	16	646
No. of lavatory plates issued	136	374	- *	-
No. of lavatories constructed	32	50	-	-
No. of wells constructed				
Public	05	25	80	23
Private	17	25	135	43

*In Madatugama lavatory plates are issued by the Public Health Inspector.

**Mothers' were immunized against Tetanus and children were given Polio vaccine, BCG vaccine and Triple Toxoide.

3.1.3. Family Planning

Monthly clinics, Educational Sessions, Film Shows are some of the activities organized in this sphere in collaboration with the Family Planning Organization.

Activities carried out during the quarter are summarized below;

	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama*</u>	<u>Galkiriyagama</u>
No. of clinics held	01	-	-	01
No. Operated:				
1. Vasectomy	23	-	-	221
2. Tubectomy	-	-	-	-
No. of film shows	02	02	-	04
No. of sessions	01	03	-	01
No. Participated	58	150	-	100

*Family Planning activities were not carried out in Madatugama region, as the settlers are provided with necessary facilities at Anuradapura city Hospital.

Following were the topics discussed during the sessions held.

1. Family Health.
2. Population explosion and land availability.
3. Effect of economic status on social welfare.
4. Importance of Family Planning.

3.1.4. Medical Institutions & Medical Practitioners

Five private dispensaries started functioning in Galnewa region and three in Galkiriyagama region during the quarter.

Number of Medical Institutions and Medical practitioners functioning in the area are tabulated below;

<u>Medical Institutions</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
Govt. Dispensaries	01	02	02	01
Ayurvedic "	01	02	03	-
Private "	07	02	10	03
<u>No. of practitioners functioning</u>				
Govt. Doctors	01	07	02	01
Private "	06	-	02	03
Indigenous Pract.	10	11	02	07
Ayurvedic "	01	06	02	-
Snake bit "	06	06	04	04

3.1.5. Mortality

Deaths reported during the quarter for reasons other than natural causes are tabulated below.

<u>Cause</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
Malaria	-	-	-	-
Snake bites	04	02	02	-
Sudden deaths	04	01	01	-
Suicides	07	01	03	-
Infant deaths	02	01	-	-

3.2. Educational Activities

3.2.1. Adult Education

Efforts are being made to educate the farmers on how to deal with various institutions in their daily activities. This has become necessary due to the multiplicity of organizations and offices the farmers are required to visit. Sessions and discussions are organized in different regions on rotational basis to cover the objectives mentioned above.

3.2.2. Schools

Steps have been taken in collaboration with the Education Department to improve the conditions of the existing schools as well as to open new ones.

In addition efforts are being made to establish 'Sunday Schools' where children study religion during Sundays.

The following are the activities carried out during the quarter.

<u>Schools</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
No. of new schools completed	-	-	-	01
No: existing schools				
a. Senior Schools	02	02	04	03
b. Junior "	09	02	10	03
No. of students enrolled	12	-	-	04
No. of additional teachers provided	-	-	01	01
<u>Sunday Schools</u>				
No. of Schools started functioning	01	03	-	-
No. of students enrolled	28	38	-	-

3.2.3. Pre-School Facilities

MDB has in collaboration with UNICEF launched a program for the setting up of Day Care Centres. This has been done with a view of providing the children with favourable educational background before they are sent to schools as well as to relieve farmer women of the responsibility of looking after the children during daytime.

Three Day Care Centres were established during the quarter in Meegalewa region to which 72 students were admitted.

3.3. Youth Affairs

Steps have been taken with the co-operation of the National Youth Services Council to organize youth activities in the project area. The main objectives being to promote organizational ability among the youths and to encourage them in self employment.

Women's Societies & Rural Development Societies.

Provision of Technical guidance and inputs were continued for Animal Husbandry activities and Home Garden cultivation. Increased interest has been shown in poultry farming. In addition it is anticipated to have classes in sewing and handicraft shortly.

The following table summarizes the activities carried out during the quarter.

<u>Women's Societies</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
No. existing	13	07	03	-
No. formed during the quarter	-	02	01	-
No. of meetings held	12	18	06	-
No. participated	138	178	147	-
No. of classes held on handicraft	40	-	16	-
<u>Rural Development Societies</u>				
No. existing	23	12	19	11
No. formed during the quarter	-	-	-	04
No. of meetings held	07	4	2	4
No. participated	116	140	-	84

3.4. Social Infrastructure

4

3.4.1. Transport Facilities

Activities to improve the condition of the existing roads as well as to establish new roads were in progress.

Negotiations took place with the Regional Transport Board to provide transport facilities connecting various hamlets to the main servicing centres.

3.4.2. Postal Facilities

One Sub Post Office was opened and seven village level post boxes were provided in Madatugama region during the quarter. Steps have been taken to provide post boxes for other hamlets where necessary.

3.4.3. Housing Facilities

Housing facilities provided during the quarter are indicated below;

	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
Permanent houses	16	10	12	19
Semi " "	83	40	148	13
Temporary "	134	76	95	76

3.5. Religious & Cultural Activities

Religious and cultural activities are encouraged with a view of promoting communal harmony and the sense of mutual help among the farmers. Organization of Sramadanas (voluntary group participation in social activities) mediation campaigns are some of the activities that are being encouraged.

Activities carried out during the quarter are summarized below;

	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
No. of religious centres existing	16	09	13	05
No. of religious centres established during the quarter	01	01	-	02
No. of religious functions held	09	06	-	-

3.6. Sports Activities

The following sports activities were carried out during the quarter.

	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
No. of sports clubs established	04	-	-	04
No. of sports festivals held	03	01	-	02
No. of sports grounds established	01	01	-	03

4. Community Development Activities - H4

The following activities were carried out during the quarter;

- i. Malaria control activities were continued in collaboration with the Health Department with the help of volunteers. The activities included issue of tablets and spraying of houses.
- ii. Excavation of Community Wells - out of a total of 123 wells to be constructed in the area, 19 were completed and the rest was in progress.
- iii. Issue of Farm Implements - Farm Implements, such as manmotes, sickles, crowbars to the value of Rs. 100/- were issued to each of 1900 farmers.
- iv. Issue of Lavatory Plates - So far lavatory plates have been issued for 940 allottees.
- v. Issue of Coconut Seedlings - About 5400 coconut seedlings have been issued so far to be grown in homesteads.

In addition setps were taken to promote public health activities and family planning activities. Holding of discussions and film shows were some of the activities that were carried out.

5. WATER MANAGEMENT & MAINTENANCE. (H1, H2, H6, H7, H8 & H9)

5.1. General

Handling water issues efficiently, maintaining the irrigation network in the project area and forecasting the availability of water prior to each cultivation season are the main responsibilities assigned to the Water Management and Maintenance Division.

5.2. Operation of Water Issues

The operation of water issues for Yala 1980 commenced on 20th April for the cultivation of subsidiary food crops and 10th May for the cultivation of paddy and continued till around 15th September 1980.

The details of water consumption, the duration of irrigation and duty in Main and Branch canals for the entire season as given by the Water Management Authorities at Kalawewa are given below;

Reservoir	Main Canal	Duration of Irrigation (days)	Total qty. issued (Ac.ft.)	Extent Cultivated (Ac.)		Duty (ft.)
				Paddy	Other crops	
Kalawewa	L.B. (H1&H2)	143	73630	8620	1230	7.48
	Br. 1					
	Br. 2					
Kandalama	L.B. (H6)	149	4476	890	10	4.97
	R.B. (H7&H8)	129	40241	2040	1290	12.08
Dambuluoya	L.B.)	143	28016	3200	890	6.85
Ranawa	Br.1)					
	Br.2) H9					

*Extent cultivated is higher than that reported in page 23 as Kalawewa Godahorowwa cultivation figures also are included here.

5.3. Rain Fall

Although Yala cultivation almost entirely depends on irrigation water, the rainfall available at the commencement of the season were also utilized for cultivation purposes.

The availability of rainfall since commencement of the cultivation season is given below;

Storage Reservoir	April (ins.)	May (ins)	June (ins)	July (ins)	Aug. (ins)	Sept. (ins)	Total (ins.)
Kandalama H6, H7 & H8	5.17	4.81	0.15	-	-	-	10.13
Dambulu Oya H9	4.74	6.39	0.28	-	-	-	11.41
Kalawewa H1 & H2	4.69	2.14	0.50	0.2	-	-	7.59

5.4. Establishment of Measuring Devices

The establishment of measuring devices in Main, Branch, Secondary and Tertiary Canals were completed to a great extent. The progress on same is given below.

Pharshall flume and Current Meter gauging stations were used in main and branch canals while humps and weirs were used on secondary and tertiary canals.

Area of Work	Main & Branch Canals		Secondary Canals		Tertiary Canals	
	Total estd.No.	No.Comp. so far	Total estd. No.	No.Comp. so far.	Total estd. No.	No.Comp. so far
Region 1						
Madatugama H7	5	5	31	30	225	201
Region 2						
Galkiriyagama H9	4	4	38	36	171	124
Region 3						
Galnewa H1 & H2	4	4	34	13	281	103
Region 4						
Meegalewa H2 balance 3		3	27	25	165	136

5.5. Monitoring of Water Issues

Monitoring of water issues were done along main canals, secondary canals and tertiary canals. The monitored returns of water issues were analysed along main canals to compute the system efficiency. Details of the analysis are given under 5.2.

For the purpose of regulating the issues along main canals, the flow in canals are being monitored at each range boundary so as to make available the irrigation requirement for each Range.

5.6. Improvements to Irrigation Infrastructure & Balance Construction Work

Improvements necessary to the irrigation system and balance construction work to be attended to are monitored monthly.

The progress on the main items concerning the above are given below.

	<u>Cumulative Progress upto end of Aug. 1980</u>
Installation of Gated dividers in field canals	102
Excavation and improvement of Secondary Drainages	42
Excavation and improvement of Turnout Drainages	295
Levelling of fields which are above the command of irrigation channels	127

6. WATER MANAGEMENT ACTIVITIES - H3 & H4

6.1. H 3 Area

According to a decision taken at the Water Management Panel Meeting held on 21st March 1980, water issues for H3 area for Yala 1980 were suspended in order to carry out urgent rehabilitation work of the Kalawewa Yoda Ela, and its distributory canals.

Following structures were completed in Kalawewa Yoda Ela;

<u>Type of Structure</u>	<u>No. Completed</u>
i. Gated Regulators	01
ii. Weir Type Regulators	05
iii. Foot Bridges	03
iv. Road Bridges	01
v. Parshall Flumes	01
vi. Improvements to Distributory canal oftakes	20

Following structures were completed in D13 and D15;

i. Improvements to sub distributory canal oftakes	- 29 nos. in D13 30 nos. in D15
ii. Parshall Flumes	- 1 no. in D 15

In addition to above rehabilitation work in D Canals, rehabilitation of small village tanks too were completed during the quarter.

6.2. H 4 Area

6.2.1. Monitoring of Water Issues

Monitoring of water issues was done in Kalawewa R.B. main canal, Branch Canals and Distributory Canals. Establishment of measuring devices in distributory canals commenced during the quarter, and the progress achieved on same is given below.

<u>Control Points</u>	<u>Estimated No.</u>	<u>No. completed so far.</u>
i. Main Canal	12	08
ii. Secondary Canals	75	18

6.2.2. Cultivation Meeting for Maha 1980/81

Cultivation meetings for Maha 80/81 were held in September for blocks 401, 402, 403, 404 & 407. Commencement of water issues was fixed for 1st October 1980, and final water issues for 28th February 1981. Farmers were constantly reminded of the importance in adhering to the cultivation calender

6.2.3. Operation of Water Issues

The closing date of water issues for Yala 1980 had to be extended from 31st August to 15th September, due to the delayed and staggered cultivation adopted by the farmers.

The total quantity of water issued from the Head Sluice - less canal network losses - 18,095 ac.ft.

Total extent cultivated - 1,245 ac.

Duty - 14.5

The very high duty during Yala 1980 could be attributed to the following reasons.

- i. Losses due to staggered and delayed cultivation
- ii. Water consumption for land development work
- iii. Wastage due to non availability of gates and measuring devices in some canals.

6.2.4. Bulk Issues to H5 Area and Anuradapura City Tanks

During the quarter a total quantity of 14900 ac.ft. were issued for H5 area from D 1/421 and Parshall flume at ch. 1119 + 00 of R.F Main Canal.

In addition 1880 ac.ft. of water was issued to Tissawewa during Poson festival season (June) and 9370 ac.ft. was issued to Nachchaduwa during September 1980.

7. MARKETING & CREDIT ACTIVITIES

7.1. Subsidiary Food Crops

Marketing arrangements made by the MDB for 1980 Yala season were intended to assure the farmer both a market in close proximity to his farm and a remunerative price for his produce. The Mahaweli Development Board had opened 14 purchasing centres during this Yala season in the following regions of the 'H' Area for the purchase of subsidiary food crops from the farmers.

<u>Region</u>	<u>No. of Centres</u>
Meegalewa	3
Galnewa	3
Madatugama	2
Kandalama	1
H 4 Area	5

The prices offered by the MDB to the farmers seemed to be more attractive than the prevailing ^{local} prices and therefore the purchasing centres have been ^{local} successful in procuring a substantial quantity of the produce from the Project Area. The purchases made by these centres from June to September 1980 are indicated below;

<u>Region</u>	<u>Item</u>	<u>Quantity(Kg)</u>	<u>Value(Rs)</u>
Meegalewa	Chillies (dried)	5,816.2	147,149.86
	Soya	576.0	2,851.20
	Red Onions	1,422.0	4,692.60
	Ground Nuts	10.0	49.50
	Green Gram	15.0	115.50
	Black Gram	3.5	15.40
Galnewa	Chillies (dried)	48,181.4	1,212,989.30
	Soya	86.0	425.70
	Black Gram	129.1	568.04

Contd.

<u>Region</u>	<u>Item</u>	<u>Quantity(Kg)</u>	<u>Value (Rs)</u>
Madatugama	Chillies(dried)	66,156.9	1,673,769.30
	Red Onions	3,654.0	12,058.20
	Gingelly (white)	127.0	1,117.60
	Gingelly (black)	53.0	408.10
	Black Gram	10	44.00
Kandalama	Chillies (dried)	3,774.5	95,494.85

The purchase of subsidiary food crops will continue till the end of this year.

7. .2. Vegetables

Although the MDB does not engage in direct purchases of vegetables, arrangements have been made through the Marketing Department and the Sri Lanka Co-operative Marketing Federation (Markfed) to purchase vegetables from the Project Area. The Marketing Department and Markfed while operating centres within the Project Area to purchase vegetables from the farmers, also operated a mobile service to make purchases at the farm gate itself.

8. LAND ADMINISTRATION ACTIVITIES

8.1. Areas H1, H2, H7 & H9

Following are the important activities handled by the Land Administration Division.

- i. Issue of temporary permits. This has become necessary as the Land Sales Act has been suspended temporarily.
- ii. Allocation of land for commercial purposes.
- iii. Conducting inquiries on encroachment.
- iv. Solving land disputes.
- v. Issue of timber permits.
- vi. Levying of water tax and electricity charges.
- vii. Conducting field days.

Activities carried out during the quarter are summarized overleaf.

SUMMARY - LAND ADMINISTRATION

<u>Region</u>	<u>Galnewa</u>	<u>Meegalewa</u>	<u>Madatugama</u>	<u>Galkiriyagama</u>
1. Blocks newly allocated				
Farmland	02	02	21	08
Homesteads	03	03	155	113
2. Surveys Completed	46	58	249	155
3. Water Tax: i. Amount charged (Rs)	6,725.00	1,425.00	6,990.00	-
ii. Amount fined (Rs)	825.00	225.00	-	-
4. Number of Field Days held	17	05	12	17
5. Timber Permits: i. No. of Timber permits issued	62	47	17	46
ii. Income from timber (Rs)	401.50	46.50	506.00	-
6. Encroachment Inquiries	-	116	30	53
7. Legal Action: i. No. cases filed	01	10	05	-
ii. No. of people ejected	01	-	08	-
8. Commercial Activities: i. No. of inquiries held	-	-	01	-
ii. No. of applicants				
summoned	-	-	01	-
iii. No. selected	-	-	01	-
iv. No. of permits issued	-	-	01	-
v. Rates levied (Rs)	498.48	-	-	-
vi. Electricity Charges				
(Rs.)	2,595.00	1,725.00	-	-
vii. Amount recovered				
from building				
loans (Rs)	5,500.00	-	-	-

8.2. H4 & H5

No statistics were made available for the 3rd quarter. Arrangements have been however made with the relevant authorities concerned to obtain data necessary for the 4th quarter report.

9. FARMER TRAINING

In each turnout group (an autonomous production Unit on an average of 30 - 40 acs.), a Farmer Leader and a Contact Farmer have been appointed by the farmers themselves. The Contact Farmer deals with the agricultural extension activities and the Farmer Leader in other aspects such as water management and community development. Fortnightly training sessions have been organized for them, during which agricultural and water management aspects and other related topics are discussed. Special attention is paid to educate the representative farmers during these training sessions, regarding the ongoing agricultural practices applicable to the cultivation process at that specific time. The two representative farmers are required to feed their fellow farmers in the turnout area with what they gained at these training sessions and in turn to bring the problems of their fellow farmers to the notice of the authorities. As an incentive to participate, the representative farmers are paid Rs. 10/- for each session.

This program has been carried out since June 1979 through a working committee representing Water Management, Agriculture and Community Development and was initiated with UNICEF assistance.

The following were the topics discussed at the farmer training sessions.

- i. Cultivation of upland crops in Yala Season.
- ii. Importance of Agricultural Insurance schemes.
- iii. Crop protection on communal basis.
- iv. Facilities provided to enhance Animal Husbandry activity.
- v. Arrangements made by the MDB to procure the products of upland crops
- ✓ vi. Problems encountered in Water Management activities.
- vii. Land Administration activities in the new settlement schemes.
- viii. Importance of environmental protection.
- ix. Importance and details of Agricultural Credit.

Summary of the attendance in the farmer training sessions is given below;

9.1. Contact Farmers

Region	Month	Total No.	No. Participated 1st week	% of attendance	No. Participated 3rd week	% of Attendance
Galnewa	July	287	125	44	136	47
	August	287	147	51	167	58
	Sept.	287	160	56	118	41
Madatugama	July	210	131	62	123	59
	August	210	114	54	119	57
	Sept.	210	133	63	117	56
Meegalewa	July	160	90	56	90	56
	August	160	106	66	100	63
	Sept.	160	116	73	116	73
Galkiriya-gama	July	146	91	62	65	45
	August	146	91	62	71	49
	Sept.	146	60	41	38	26

9.2. Farmer Leaders

Galnewa	July	287	143	50	167	58
	August	287	171	60	187	65
	Sept.	287	182	63	136	47
Madatugama	July	210	163	78	155	74
	August	210	149	71	147	70
	Sept.	210	152	72	148	70
Meegalewa	July	160	113	71	116	73
	August	100	124	78	125	78
	Sept.	160	128	80	122	76
Galkiriya-gama	July	146	104	71	80	55
	August	146	100	68	77	53
	Sept.	146	99	68	79	54

9.3. Farmer Training in H4 Area

Inaugural sessions were held in H4 area in August and the following table shows the farmer participation in the four blocks, since commencement of the training programme.

<u>Month</u>	<u>Block</u>	<u>No. of Farmer leaders</u>	<u>Number attended</u>	<u>% of attendance</u>
August	401	58	46	40
	402	45	34	38
	403	60	85	71
	407*	47	43	91
September	401	58	50	43
	402	45	51	57
	403	60	103	86
	407	47	82	87

*One session was held for the month of August.

Rest of the blocks had two sessions for a month.

PROJECT MANAGEMENT ACTIVITIES H 5 AREA.

Introduction.

The Mahaweli Authority of Sri Lanka has established a Project Management Pilot Project in H5 area. The settlers in the Pilot Project are provided with all services and inputs etc., necessary for successful cultivation under the responsibility of the Project Management.

This is in total contrast with the earlier settlement schemes where the settlers had to depend on a multiplicity of independent government agencies for their requirements.

To achieve higher degree of efficiency both on the part of the officials and farmers, training programmes are being conducted in Agricultural Water Management and Community Development aspects etc. The instructions given in these training sessions are being followed up in order to develop a set of efficient and responsible farmers within the Project area. The activities carried out during the quarter were reported as follows:

1) Settlement A total of 3238 farmers have been settled upto the end of the quarter.

2) On-Farm Development The progress of on-farm development is very much behind the progress of settlements. Some of the farmers who have been settled in late 1979 and early 1980 will not be able to do an irrigated cultivation as windrows, hums, gullies and tank bunds in their fields have not been levelled off due to scarcity of crawler tractors. The On-Farm development division does not possess adequate tractors to do the initial tillage. The Project Management has loaned four tractors with disc ploughs to the Farm Machinery Unit of the MDB for bund marking and initial ploughing. In addition, most of the tractors fitted with modified Z bar cultivators do the initial tillage. An incentive scheme for tractor operators is in operation at present and as a result a substantial acreage was ploughed within a short period of time.

3) Cultivation and Production: Approximately 30% of the total acreage were affected by brown hopper pest. Provision of pesticides together with agricultural advise have had controlling effect on these problems. However, the pest attack brought down paddy yields considerably. Heavy rain-fall during the harvest period also contributed to delays in harvesting operations.

The crop cutting surveys indicate that the average yield per acre would be more than 70 bushels. The subsidiary crops such as cowpea have recorded good yields. The actual yield per acre can be reported when the results of the crop cutting surveys are published.

4) Marketing and Credit: About 152 farmers obtained credit in the Yala season for paddy and subsidiary crops. As at date only 21% of the loans granted remains unrecovered and will be recovered shortly.

Approximately 750 farmers have applied for credit in Maha 80/81. These applications are being processed by the Bank at present. In order to ensure that the time taken to process loan applications will not affect the farmers, they are provided with tillage services with tractors belonging to the Authority as well as private tractors. All necessary inputs have been purchased. The farmers are given the seed, fertilizer, agro-chemicals at the time they need them.

The marketing system adopted for Yala crops did not prove to be very satisfactory. The brokers' role which the Authority played in bringing the buyer and farmer together had the following shortcomings.

- (a) The traders insist on a lorry load of produce at a given time for them to come and purchase the produce;
- (b) The farmers who were not given the opportunity of cultivating any crops for a considerable period were very keen to encash their produce as early as possible.
- (c) It has become impossible to keep various traders away from the area. The traders found it more advantageous for them to purchase the produce direct from the farmers as they could easily cheat the farmer using short measures etc.

However, 1,505 Kg. cowpea, 51Kg. of greengram, 8,180 Kg. of paddy were sold under the supervision of the Authority to the traders in the area.

5. Community Services.

In this regard, efforts were confined mainly to the following activities:

- i. Community wells under UNICEF Aid Scheme - The farmers have already signed agreements to construct about 40 wells and the work on all these wells have commenced as at date. Twenty wells have been completed. Moulds will be supplied by UNICEF to make rings to be issued to those who have dug the wells.
- ii. Squatting plates have been issued to most of the settlers. Normally they are very slow in building their lavatories. A campaign has just been launched to impress the farmers of the importance of using lavatories.
- iii. Arrangements have been made with the Health Education Unit of the Department of Health to carry out two surveys on mental and physical health of the settlers in the area. In addition arrangements have also been made to distribute 'Thripasha' (a nutritious food material) obtained from CARE organisation to pregnant mothers, lactating mothers, infants, children and invalids. 63 trainee nurses from the Nursing School, Anuradhapura are screening the settlers in the H5 area. This exercise will be continued for one month. At the end of this programme Health Volunteer Centres will be established for each 20 families in a hamlet. All health volunteers will be trained by the nurses. 60% of the children in the area will be immunized. Those requiring treatment will be provided such treatment at the hospitals in the area. Unit Managers have been trained in Malaria control and presently preventive and curative treatment for Malaria are being done by them.
- iv. Most of the schools in the area need furniture. Only two schools have been provided with furniture. As a short-term measure to solve the space problem in schools in the area, few of the stores buildings have been allocated for use of schools. In addition, assistance also has been given to put up temporary school halls wherever necessary.

v. Supply of drinking water to the settlers was continued.

6. Farm Machinery Unit.

The Farm Machinery unit has been formed with about 15, 4-wheel tractors. These tractors provide tillage facilities for new and old irrigated fields.

In addition due to encouragement given to the private sector to provide tillage facilities, the Central Finance Company Kandy has already set up an office and established a small Machinery Unit.

7. Business Development

Discussions and studies are in progress regarding the establishment of fresh water prawn farms and inland fisheries with M/s Lever Brothers Ltd.,

Sewing classes have been started at Kalewewa with a view to gear off-farm employment.

Proposals for setting up of a brick kiln and rice mill is being studied.

Hatton National Bank has informed that they have provided Rs 2 million for the establishment of small industries.

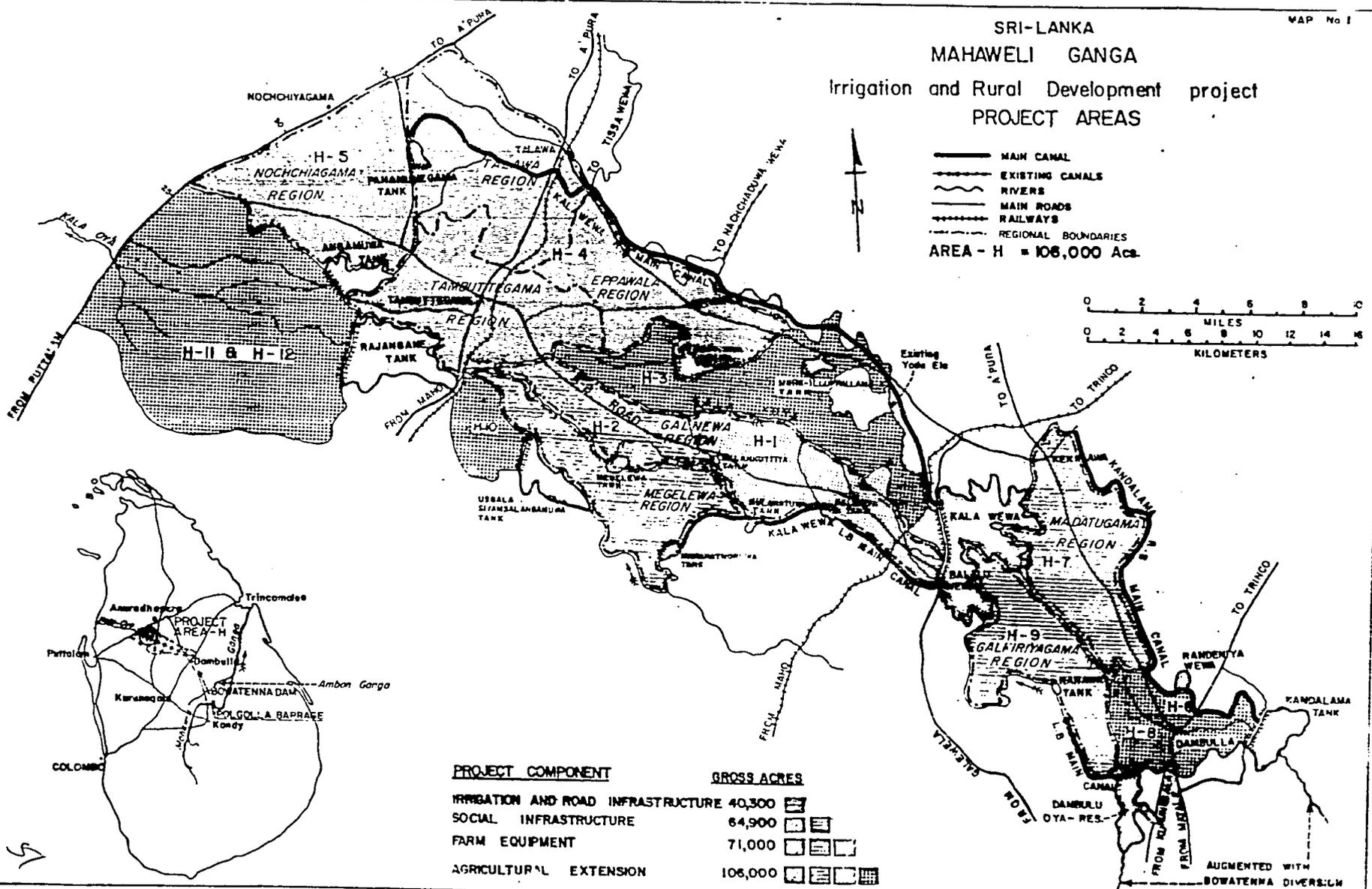
Central Finance Co., has started a tractor pool with three machines and has already opened an office at Nochchiyagama.

Discussions are also under-way regarding the setting up of a cucumber processing plant with foreign collaboration.

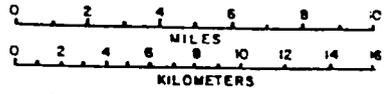
Agro-skills has also initiated discussions for the establishment of an animal feed processing plant in the Project area.

= MAPS =

SRI-LANKA MAHAWELI GANGA Irrigation and Rural Development project PROJECT AREAS



——— MAIN CANAL
 - - - - - EXISTING CANALS
 ~~~~~ RIVERS  
 ——— MAIN ROADS  
 —+—+—+ RAILWAYS  
 - - - - - REGIONAL BOUNDARIES  
 AREA - H = 106,000 Acs.

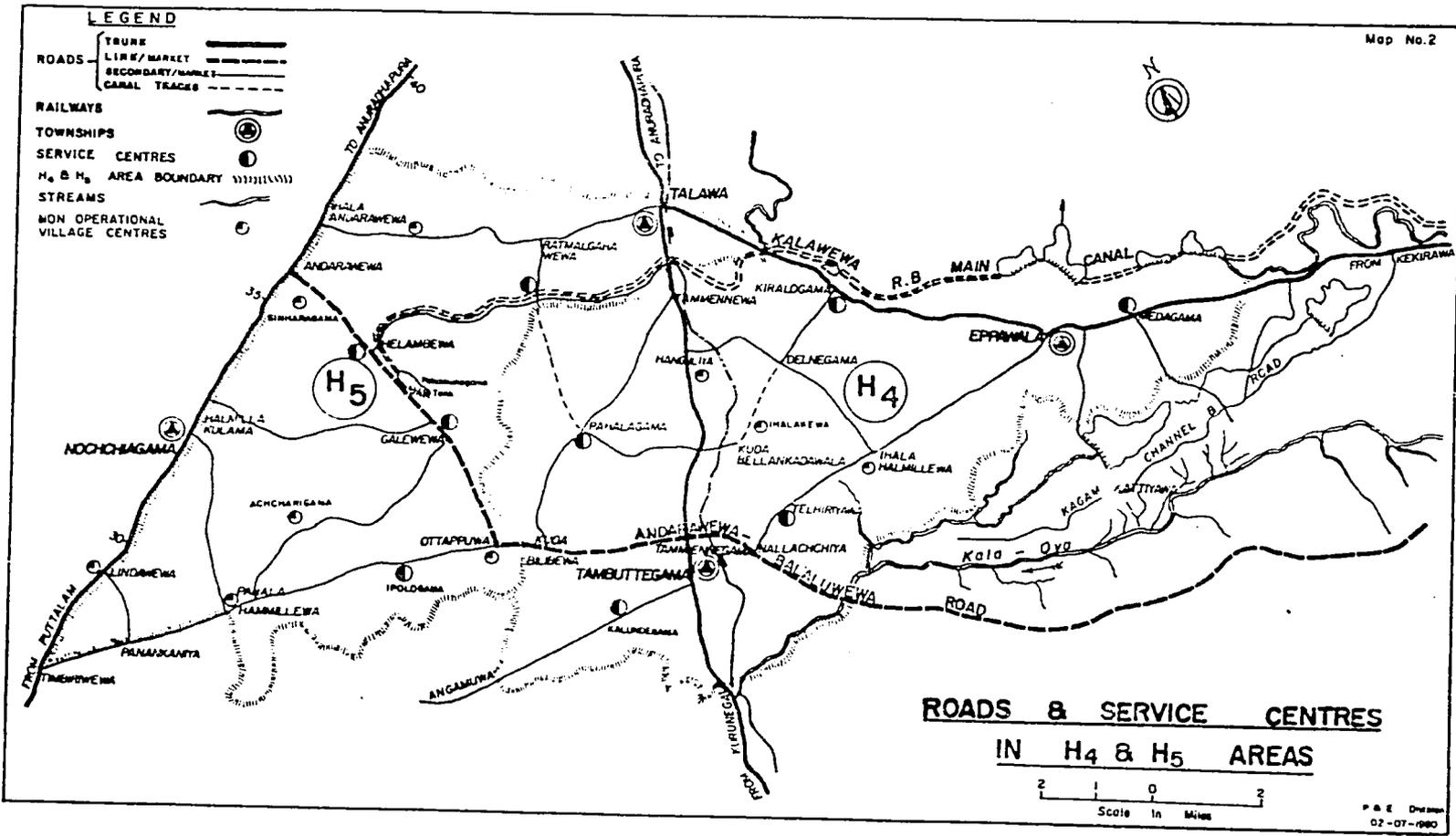


| PROJECT COMPONENT                  | GROSS ACRES |  |
|------------------------------------|-------------|--|
| IRRIGATION AND ROAD INFRASTRUCTURE | 40,300      |  |
| SOCIAL INFRASTRUCTURE              | 64,900      |  |
| FARM EQUIPMENT                     | 71,000      |  |
| AGRICULTURAL EXTENSION             | 106,000     |  |

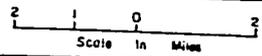
AUGMENTED WITH BOWATENNA DIVERSION

LEGEND

- ROADS
  - TRUNK
  - LINE/MARKET
  - SECONDARY/MARKET
  - CANAL TRACES
- RAILWAYS
- TOWNSHIPS
- SERVICE CENTRES
- H<sub>4</sub> & H<sub>5</sub> AREA BOUNDARY
- STREAMS
- NON OPERATIONAL VILLAGE CENTRES



**ROADS & SERVICE CENTRES**  
**IN H<sub>4</sub> & H<sub>5</sub> AREAS**



52



= ANNEXES =

STATEMENT OF CUMULATIVE EXPENDITURE UPTO 30.09.80 FOR THE " H " AREA (ALL FIGURES IN MILLIONS OF RUPEES)

Annex 1

Page 1 of 2

| Details of Expenditure          | Kulawewa<br>Heegalewa | R. P. M.<br>Kulawewa | D. R. E<br>Eppawela | D. R. E.<br>Nochchiya-<br>Gama | D. R. E.<br>Madatu-<br>Gama | F. I. C.<br>Hurulu-<br>wewa | R. P. M.<br>Tambutte-<br>Gama | Yantalai<br>Project | Others       | TOTAL          |
|---------------------------------|-----------------------|----------------------|---------------------|--------------------------------|-----------------------------|-----------------------------|-------------------------------|---------------------|--------------|----------------|
| Land and Land rights            | 0.373                 |                      |                     |                                |                             |                             |                               |                     |              | 0.373          |
| Dam and Reservoir               |                       |                      | 0.0266              |                                | 20.650                      |                             |                               |                     |              | 20.6766        |
| Tank Improvements               | 0.815                 | 0.0498               | 3.082               | 0.6752                         | 2.5609                      |                             |                               |                     |              | 7.1838         |
| Main Canal                      | 20.977                | 28.849               | 16.2873             | 0.8380                         | 21.298                      | 0.124                       |                               |                     |              | 88.8003        |
| Branch Cannel                   |                       | 0.0169               | 0.8624              | 0.435                          | 0.3428                      |                             |                               | 0.432               |              | 1.6571         |
| Field Channel                   |                       | 0.0664               | 5.472               | 4.215                          | 1.642                       |                             |                               |                     |              | 11.3954        |
| Drainage Channel                |                       | 0.0107               | 2.4295              | 1.5516                         | 0.5607                      |                             |                               |                     |              | 4.5525         |
| Distributory Channel            | 7.588                 | 3.3875               | 26.619              | 38.932                         | 18.012                      |                             | 1.076                         |                     | 0.080        | 95.6345        |
| Permanent Buildings             | 17.581                | 6.2959               | 26.353              | 11.599                         | 16.204                      | 0.665                       | 0.8082                        |                     | 0.432        | 79.0881        |
| Temporary Camps                 | 2.689                 | 0.0714               | 1.1838              | 1.746                          | 0.201                       |                             | 1.0714                        |                     | 0.312        | 7.2744         |
| Roads, Culverts & Bridges       | 12.075                | 10.708               | 39.212              | 9.058                          | 9.214                       |                             |                               |                     |              | 80.267         |
| Hamlets                         |                       | 0.236                | 9.682               | 3.0118                         |                             |                             |                               |                     |              | 12.9308        |
| Jungle Clearing                 |                       | 0.1208               | 0.256               | 0.5511                         | 0.2715                      |                             | 0.0014                        |                     |              | 1.1507         |
| Land Development                | 48.252                | 2.0098               | 49.998              | 8.9608                         | 17.72                       |                             | 0.0344                        |                     |              | 126.975        |
| Wells                           |                       | 0.0176               | 0.2284              | 0.2284                         |                             |                             |                               |                     |              | 0.4744         |
| Contractors & Suppliers )       | 0.082                 | 3.1326               | 12.163              | 2.63                           | 2.7394                      |                             | 3.6381                        |                     |              | 24.385         |
| Advance )                       |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| Contractors & Consultants )     | 0.065                 | 1.2387               | 0.8985              | 0.1685                         | 0.7425                      |                             | 0.34                          |                     | 3.0828       | 6.536          |
| Payments )                      |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| Administration Capital          | 0.508                 | 3.048                | 5.618               | 3.013                          | 1.7049                      |                             | 1.1778                        |                     |              | 15.0697        |
| Survey & Investigation          |                       |                      | 1.83                | 0.5318                         | 0.3269                      |                             | 0.0776                        |                     | 2.1725       | 4.7661         |
| Presettlement                   |                       |                      | 0.0028              | 0.0014                         |                             |                             | 0.2786                        |                     |              | 0.2828         |
| Settlement                      | 3.075                 | 0.0752               | 3.264               | 0.453                          | 1.851                       | 0.001                       | 0.9705                        |                     | 0.150        | 9.8387         |
| Post Settlement                 |                       | 0.113                | 0.0027              |                                |                             |                             | 0.0659                        |                     |              | 0.1757         |
| Electricity & Telecommunication |                       | 0.115                |                     |                                |                             |                             | 0.0323                        |                     |              | 0.1473         |
| Other Capital Works             | 0.194                 | 7.3321               | 0.2814              | 0.4269                         | 0.3039                      | 0.651                       | 0.9626                        |                     |              | 10.1515        |
| Water Management )              | 1.312                 | 2.785                | 0.173               |                                | 0.464                       |                             | 1.2745                        |                     | 0.074        | 6.0876         |
| Agriculture )                   |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| Community Dev. & Marketing      | 0.437                 | 1.66                 |                     | 0.041                          | 8.502                       |                             |                               |                     |              | 10.64          |
| Headworks Argumentation         | 13.770                |                      |                     |                                |                             |                             |                               |                     |              | 13.777         |
| Rehabilitation                  |                       |                      |                     |                                |                             |                             |                               |                     | 10.747       | 10.747         |
| Buildings for Special Projects  |                       |                      |                     |                                |                             |                             |                               |                     | 2.392        | 2.392          |
| <b>Feasibility Study</b>        |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| i. Agriculture                  |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| ii. Soil Survey                 |                       |                      |                     |                                |                             |                             |                               |                     | 11.118       | 11.118         |
| <b>Pilot Project</b>            |                       |                      |                     |                                |                             |                             |                               |                     | 0.131        | 0.131          |
| i. Sugar Corporation            |                       |                      |                     |                                |                             |                             |                               |                     | 1.389        | 1.389          |
| ii. Others                      |                       |                      |                     |                                |                             |                             |                               |                     | 0.947        | 0.947          |
| <b>Other Expenses</b>           |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| Personnel Emoluments & )        | 6.68                  | 15.441               | 33.61               | 8.334                          | 14.383                      |                             | 3.7975                        | 1.507               | 3.7975       | 87.55          |
| Employees Advance )             |                       |                      |                     |                                |                             |                             |                               |                     |              |                |
| Overheads & Current A/Cs.       | 0.663                 | 6.655                | 10.012              | 7.2541                         | 4.4646                      |                             | 2.8129                        |                     | 2.8129       | 34.6745        |
| Supply & Materials              | 7.692                 | 8.104                | 25.71               | 7.4234                         | 7.0863                      |                             | 0.8263                        | 0.004               | 0.8263       | 57.6723        |
| Micelleaneous                   |                       | 0.2414               | 0.382               |                                | 0.265                       |                             | 0.044                         |                     | 0.044        | 0.7364         |
| <b>TOTAL:</b>                   | <b>144.823</b>        | <b>101.7808</b>      | <b>275.411</b>      | <b>112.0391</b>                | <b>157.5180</b>             | <b>1.441</b>                | <b>19.2801</b>                | <b>1.51</b>         | <b>40.94</b> | <b>852.714</b> |

| STAGE OF EXPENDITURE           | STAGE I  |          |        | STAGE II & III |           |         |         |         |         |         | ACCELERATED PROGRAMME |         |          |
|--------------------------------|----------|----------|--------|----------------|-----------|---------|---------|---------|---------|---------|-----------------------|---------|----------|
|                                | Total    | Interest | Patent | Equipm.        | Non-hydr. | Hydr.   | Equipm. | Equipm. | Equipm. | Equipm. | Equipm.               | Equipm. | Equipm.  |
| Reservoir                      | 17.3382  |          | 1.662  | 0.0766         |           |         | 0.3054  |         |         |         |                       |         |          |
| Improvement                    | 12.2707  |          | 0.0001 | 2.082          | 2.0033    | 1.3719  | 0.1418  |         |         |         |                       | 3.012   | 1.7507   |
| Canal                          | 7.693    |          |        |                |           |         |         |         |         |         |                       |         | 7.693    |
| Canal                          | 7.3926   | 0.0572   | 0.1189 | 4.3305         |           | 0.255   | 0.292   |         |         |         |                       | 0.612   | 1.9707   |
| Canal                          | 1.9527   |          |        | 0.8624         | 0.435     | 0.3428  | 0.0105  |         |         |         |                       |         | 0.296    |
| Canal                          | 11.403   |          |        | 5.472          | 4.215     | 1.642   | 0.0664  |         |         |         |                       |         | 0.0076   |
| Channel                        | 4.5525   |          |        | 2.4295         | 1.5516    | 0.5607  | 0.0107  |         |         |         |                       |         |          |
| Drainage Channel               | 10.3585  |          |        | 3.749          | 2.422     | 0.827   | 0.2695  | 1.076   |         |         | 0.774                 |         | 1.244    |
| Other                          | 2.721    |          | 0.069  |                |           |         |         |         |         |         |                       |         | 2.652    |
| Buildings                      | 66.0455  | 0.0548   | 0.5799 | 15.122         | 7.146     | 7.354   | 2.2031  | 0.8082  |         |         | 1.863                 | 12.392  | 15.315   |
| Camps                          | 2.2053   |          |        | 0.4438         | 0.0161    |         | 0.0714  | 0.0714  |         |         |                       | 0.0911  | 1.5105   |
| Canals & Bridges               | 52.1561  | 0.0307   | 0.1274 | 24.296         | 2.824     | 8.127   | 4.747   |         |         |         | 0.824                 | 5.2045  | 6.046    |
| Other                          | 12.721   |          |        | 9.682          | 3.0114    |         | 0.0236  |         |         |         |                       |         | 0.004    |
| Engineering                    | 1.570    |          |        | 0.256          | 0.5511    | 0.2718  | 0.1208  | 0.0014  |         |         |                       | 0.1369  | 0.1903   |
| Transport                      | 10.3445  |          |        | 2.534          | 0.0668    | 4.233   | 1.3209  | 0.0344  |         |         | 0.144                 | 0.1565  | 0.286    |
| Other                          | 0.2503   | 0.0046   |        |                | 0.2284    |         | 0.0173  |         |         |         |                       |         |          |
| Contractors & Suppliers Adv.   | 27.267   | 0.1281   | 0.2294 | 12.163         | 2.63      | 2.7334  | 3.1326  | 3.6781  |         |         |                       | 3.0124  | 9.594    |
| Contractors & Consul. Payments | 14.1892  | 0.0127   | 0.0083 | 0.8983         | 0.1695    | 0.7525  | 1.2387  | 0.073   |         |         |                       | 4.061   | 3.289    |
| Investment Capital             | 20.2115  | 0.1993   | 0.4393 | 5.618          | 3.013     | 2.1443  | 3.043   | 1.4488  |         |         | 0.508                 | 1.4433  | 1.8405   |
| Survey & Investigation         | 16.1262  | 0.0307   | 0.074  | 1.83           | 0.5318    | 0.3269  | 0.0976  |         |         |         |                       | 6.2733  | 4.774    |
| Transportation                 | 0.3617   |          |        | 0.0028         | 0.0013    | 0.026   |         | 0.2786  |         |         |                       | 0.025   | 0.018    |
| Settlement                     | 1.6939   |          |        |                |           |         | 0.0257  | 0.9705  |         |         |                       | 0.1007  | 0.447    |
| Settlement                     | 0.1816   |          |        | 0.0027         |           |         | 0.113   | 0.0659  |         |         |                       |         | 0.110    |
| Security & Telecommunication   | 2.4166   |          |        |                |           |         | 0.115   | 0.0023  |         |         |                       | 0.932   | 1.367    |
| Other                          | 1.8415   |          |        |                |           |         | 0.5669  | 12.746  |         |         |                       |         |          |
| Other Capital Works            | 12.3335  | 0.063    | 0.0869 | 0.2814         | 0.4429    | 0.3039  | 7.332   | 0.5214  |         |         | 0.037                 | 3.17    | 0.0948   |
| Other                          |          |          |        |                |           |         |         |         |         |         |                       |         |          |
| Recruitment & Employee's       | 42.4589  | 1.3236   | 0.7815 | 7.389          | 5.544     | 6.608   | 7.461   | 3.7975  | 0.16    |         | 0.297                 | 3.7404  | 5.253    |
| Grants & Current A/Cs.         | 46.3297  | 0.8644   | 0.3344 | 10.012         | 7.254     | 4.046   | 6.655   | 2.8129  | 0.004   |         | 0.667                 | 5.9658  | 7.1194   |
| Price of Materials             | 25.8791  |          | 0.1431 | 4.587          | 2.1794    | 1.9363  | 2.138   | 0.8263  |         |         | 0.868                 | 3.004   | 9.643    |
| Miscellaneous                  | 1.4779   |          | 0.016  | 0.382          |           | 0.2065  | 0.2414  | 0.044   |         |         |                       |         | 0.532    |
|                                | 445.7111 | 2.7707   | 4.6692 | 116.556        | 7.2356    | 44.9843 | 41.4473 | 17.8429 | 0.164   |         | 6.045                 | 55.6169 | 102.4707 |

Foreign Expenditure - January to September 1980 - 26.5972  
 Foreign Liabilities - January to September 1980. Stage II & III - 1.9562  
 Total expenditure - 474.2045

- 26.5972  
 - 1.9562  
 474.2045

## MDB ORGANISATION IN SYSTEM - H

S U M M A R Y

The organisation of MDB is given in Chart No. 1 of this annex. Links of the Head Office organisation with System 'H'; 'AGM (C) System H, RPM (Kalawewa) and RPM (Tambuttegama) are also indicated in the same chart.

At present all construction activities in System H are coordinated through AGM (Construction) - (see Chart No.2), whilst the settlement and post construction management activities are coordinated through the two Resident Project Managers (see Chart Nos 3 & 4).

Position of Chief Coordinator/Coordinators (see Chart No. 1) was introduced during the quarter to provide adequate inter divisional coordination and to facilitate fair allocation of resources at the project level. Chief Coordinator/Coordinators is now considered as the overall authority at the Project Level (except H5 Pilot Project), whilst the routine channels of communication between the central organisation and individual Heads of Divisions at site remaining same.

The comparison of two RPM organisations given in Chart 3 & 4, indicate the high emphasis given to the unitary management concepts, in the transition RPM division in H4 area.

Unitary structure has been considered more meaningful during the stage of transition from construction to post settlement management, in which the responsibility of individual disciplines are not limited to disciplines itself.

The agricultural operations in area H9 were continued to be looked after by the Ceylon Tobacco Co., Ltd. ( a private sector organisation) from a commercial point of view of promoting non paddy crops.

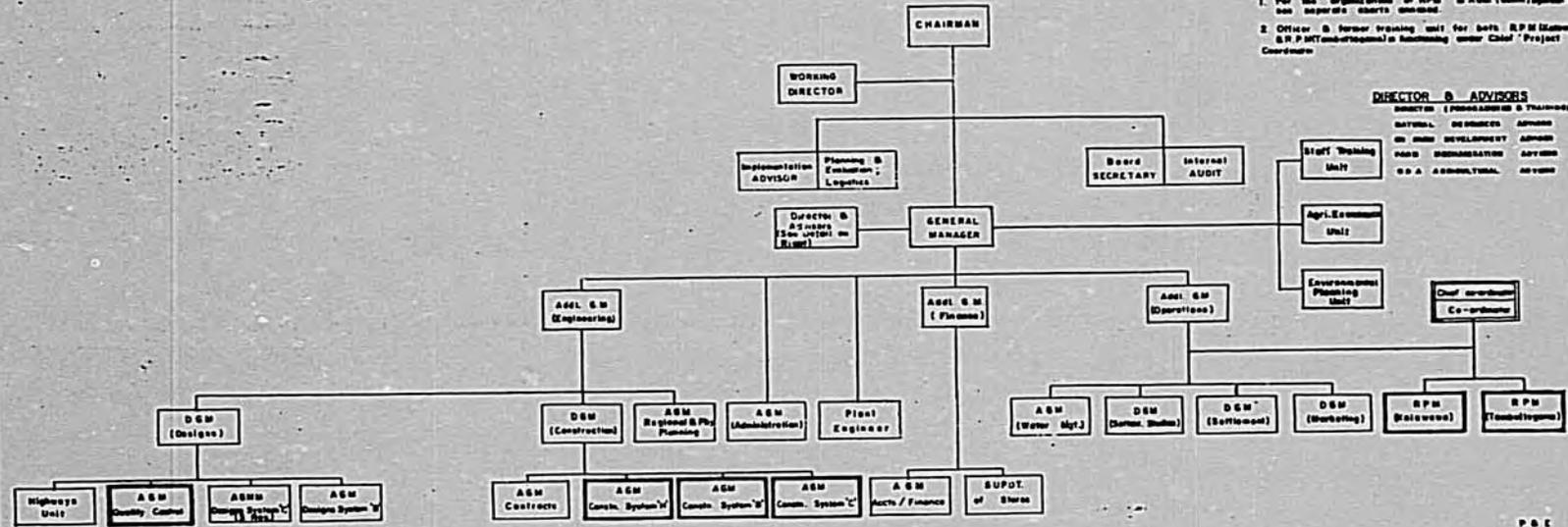
# MAHAWELI DEVELOPMENT BOARD - ORGANIZATION STRUCTURE

**ABBREVIATIONS -**  
 A.G.M. - Assistant General Manager  
 D.G.M. - Deputy General Manager  
 A.G.M. - Asst. Gen. Manager  
 R.P.M. - Resident Project Manager  
 [ ] - Field Position

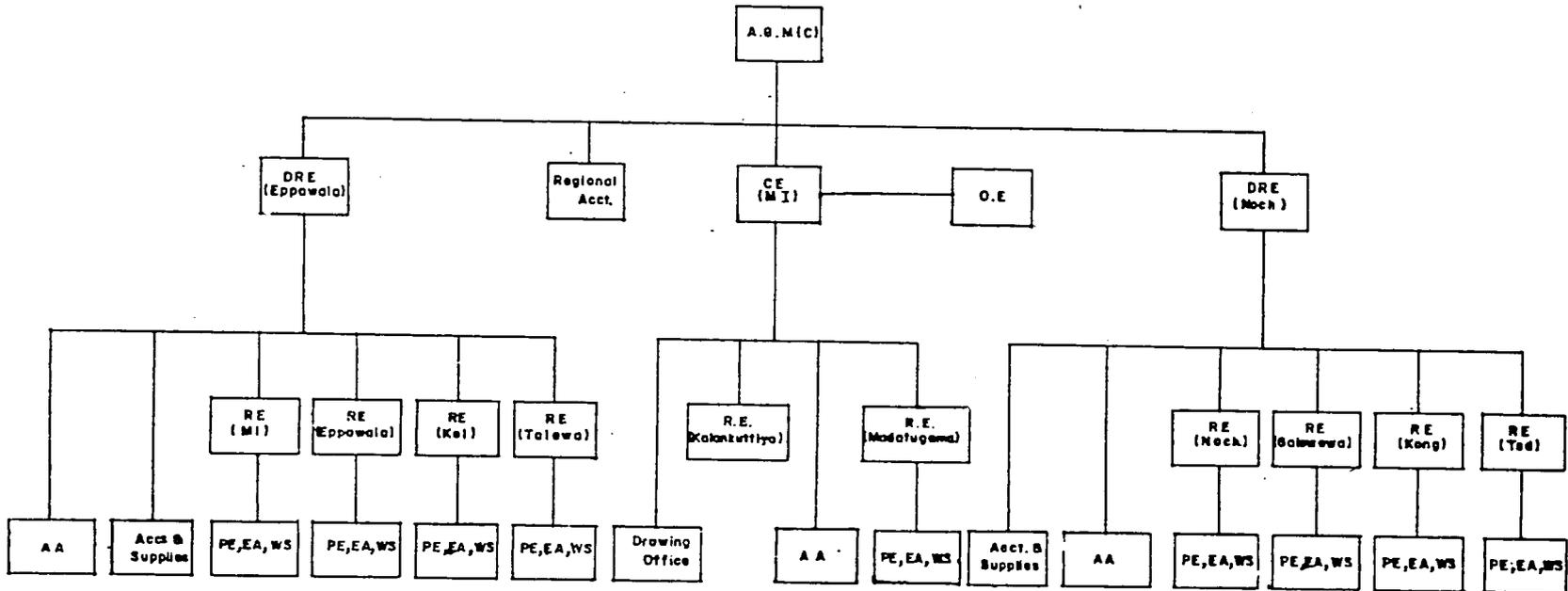
**R.S.**  
 1. For the organization of R.P.M. & ASM (cont.) System II see separate charts enclosed.  
 2. Officer in former training unit for both R.P.M. (cont.) & R.P.M. (cont.) is functioning under Chief Project Coordinator.

**DIRECTOR'S ADVISORS**  
 (SPECIALIZED & TRAINED)

- NATIONAL SERVICES ADVISOR
- DEVELOPMENT ADVISOR
- PLANNING & ADMINISTRATION ADVISOR
- AGRICULTURE ADVISOR



# ASST. GENERAL MANAGER (CONST.) SYSTEM 'H' - ORGANIZATION STRUCTURE

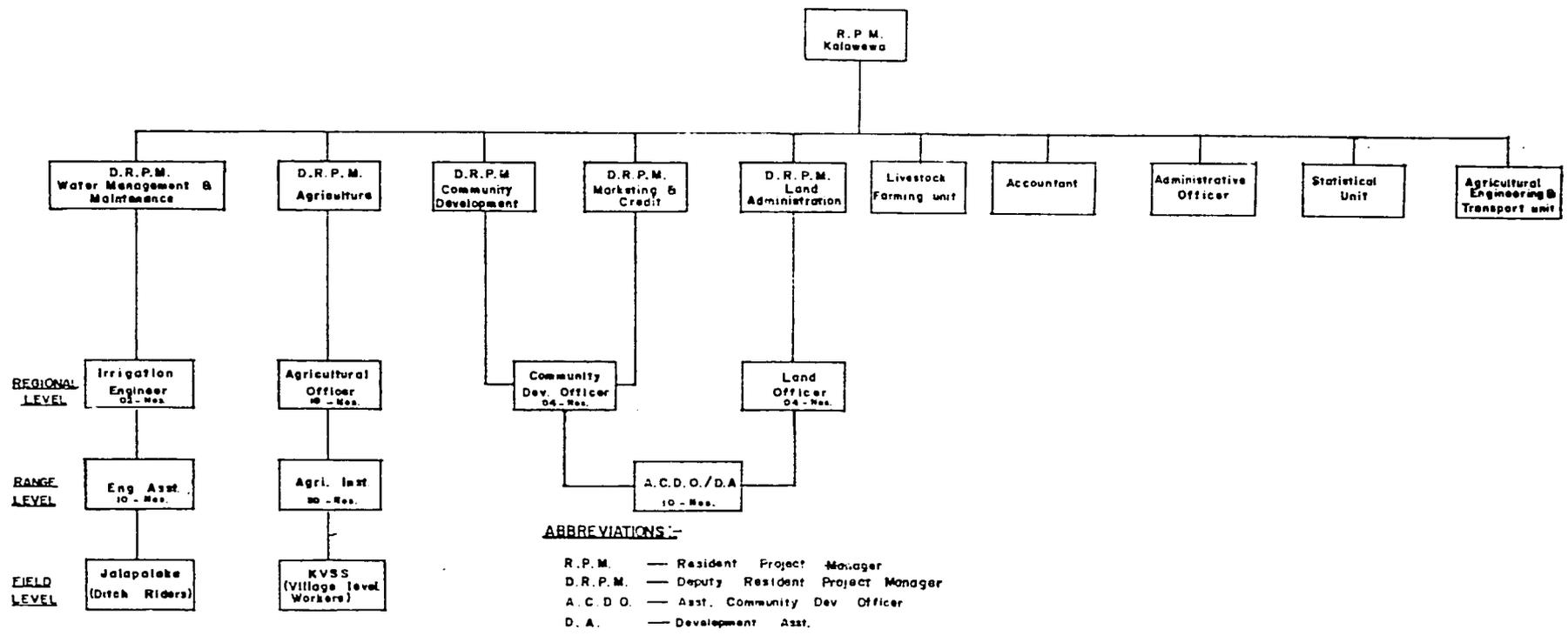


### ABBREVIATIONS:-

|        |   |                              |
|--------|---|------------------------------|
| A.G.M. | — | Asst. Gen. Manager.          |
| D.R.E. | — | Divisional Resident Engineer |
| R.E.   | — | Resident Engineer            |
| C.E.   | — | Chief Engineer               |
| O.E.   | — | Office Engineer              |
| P.E.   | — | Project Engineer.            |
| A.A.   | — | Admn. Asst.                  |
| E.A.   | — | Eng. Asst.                   |
| w.S.   | — | Works Supervisor.            |

SA

# RESIDENT PROJECT MANAGER (KALAWEWA) - ORGANIZATION STRUCTURE



REGIONAL LEVEL  
RANGE LEVEL  
FIELD LEVEL

**ABBREVIATIONS:-**  
 R.P.M. — Resident Project Manager  
 D.R.P.M. — Deputy Resident Project Manager  
 A.C.D.O. — Asst. Community Dev Officer  
 D.A. — Development Asst.

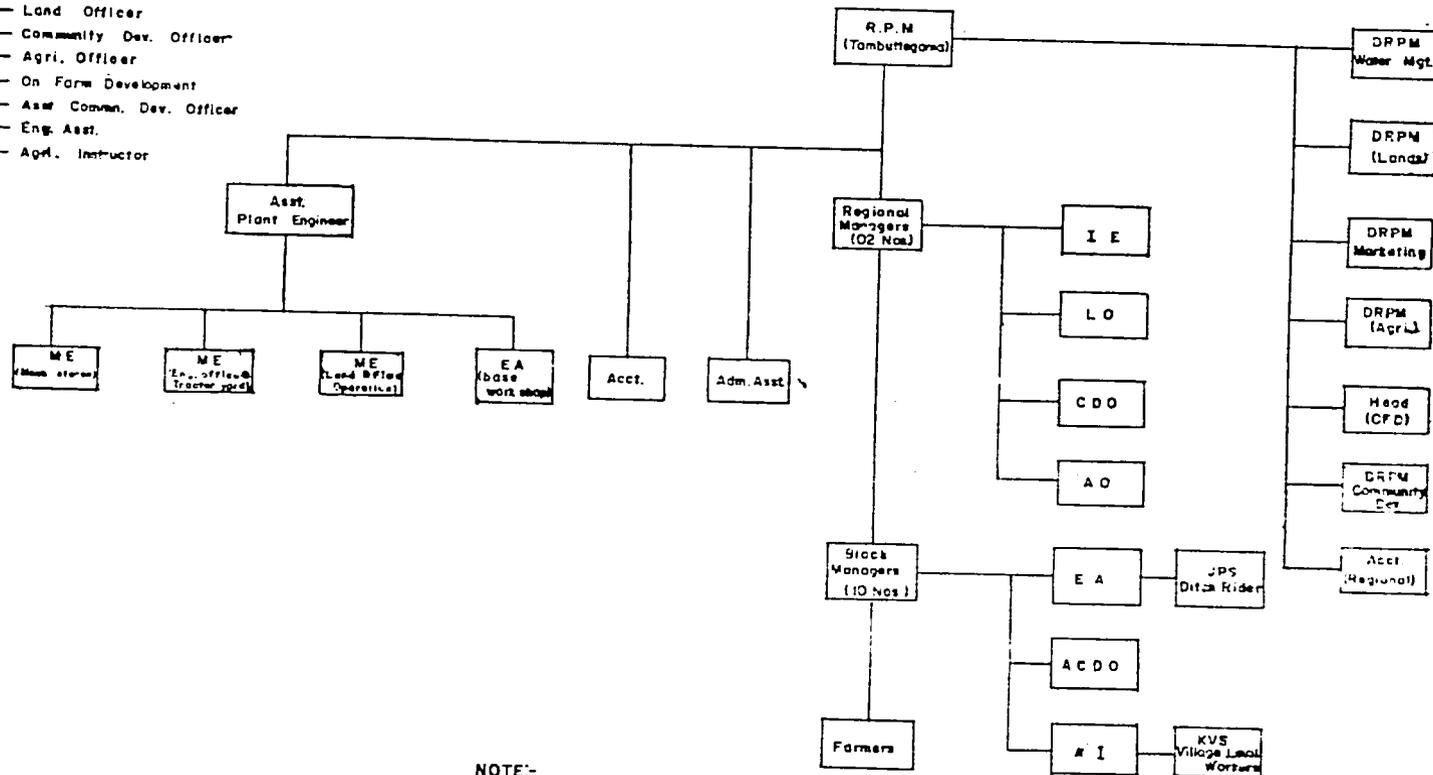
**NOTE:-**  
 Officer & farmer training unit for both R.P.M. (Kalawewa) & R.P.M. (Tambuttigama) is functioning under Chief Project Coordinator.

69

# RESIDENT PROJECT MANAGER (TAMBUKTEGAMA) - ORGANIZATION STRUCTURE

## ABBREVIATIONS:-

|          |                                   |
|----------|-----------------------------------|
| R.P.M.   | — Resident Project Manager        |
| D.R.P.M. | — Deputy Resident Project Manager |
| M.E.     | — Mechanical Eng.                 |
| I.E.     | — Irrigation Eng.                 |
| L.O.     | — Land Officer                    |
| C.D.O.   | — Community Dev. Officer          |
| A.O.     | — Agri. Officer                   |
| O.F.D.   | — On Farm Development             |
| A.C.D.O. | — Asst. Commn. Dev. Officer       |
| E.A.     | — Eng. Asst.                      |
| A.I.     | — Agri. Instructor                |



## NOTE:-

Officer & farme training unit for both R.P.M. (Kalewswa) & R.P.M. (Tambuttegama) is functioning under Chief Project Coordinator

PROCUREMENT & DEPLOYMENT SCHEDULE OF MACHINERY & EQUIPMENT

| Item of Equipment                                                 | Qty. | Bids opened date | Bids being processed closed | Orders placed (date) | Shipped on (date)                                      | Arrived in Harbour Qty/date | Cleared from Harbour Qty/date | At Local Agents Qty/date | Taken into Inventory | Sent to Projects Qty/date | Handed over to DM&E. Qty/date. | Present location | Remarks                                                                                                       |
|-------------------------------------------------------------------|------|------------------|-----------------------------|----------------------|--------------------------------------------------------|-----------------------------|-------------------------------|--------------------------|----------------------|---------------------------|--------------------------------|------------------|---------------------------------------------------------------------------------------------------------------|
| <b>a) EQUIPMENT TO BE PURCHASED BY CIDA.</b>                      |      |                  |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  |                                                                                                               |
| 1. Crane, Truck mounted 10 ton.<br>Spares for Truck mounted crane |      | 16.2.78          |                             | 01.3.78              | 06.12.78<br>26.11.79                                   | 15.1.79                     | 24.1.79                       | 24.1.79                  |                      |                           | -<br>Yes<br>06.4.79            | DM&E             | At Nochchiyagama.                                                                                             |
| 2. Fork Lift Truck -hydraulic 5 ton                               | 1    | 30.12.77         |                             | 07.3.78              | 28.6.78                                                | 4.8.78                      | 23.10.78                      | 23.10.78                 | Yes                  |                           | Yes<br>27.11.78                |                  | No. 11, Jawatte Road                                                                                          |
| 3. Fork Lift Truck Spares                                         |      |                  |                             |                      | 31.8.79                                                |                             | 18.12.79                      |                          |                      |                           |                                | M.I.             |                                                                                                               |
| 4. Water Bowser, 1200 IMP Glns.                                   | 8    | 1.2.78           |                             | 3.4.78               | 7.12.78                                                | 15.1.79                     | 1.2.79                        | 1.2.79                   |                      |                           |                                | M.I.             | All sent to Maha-<br>Illuppallama                                                                             |
| 5. Fuel Bowsers, 1000 IMP. Glns.                                  | 2    | 14.2.78          |                             | 3.4.78               | 5.1.79                                                 | 20.3.79                     | 22.3.79                       | 22.3.79                  |                      |                           |                                |                  | All sent to Maha-<br>Illuppallama                                                                             |
| 6. Truck, dump 5 cu. yd.                                          | 6    | 14.2.78          |                             | 3.4.78               | 7.12.78                                                | 15.1.79                     | 2.2.79                        |                          |                      |                           |                                |                  | All sent to Maha-<br>Illuppallama                                                                             |
| 7. Truck chassis only 5 ton                                       | 24   | 14.2.78          |                             | 3.4.78               | Six on<br>7.12.78<br>Eighteen on<br>15.1.79<br>15.1.79 | 20.3.79                     | 2.2.79                        | 2.2.79                   |                      | 1.6.79                    |                                |                  | Sent to M.I. 5 at<br>Jayamelee & Co. Body<br>Builder converting Van<br>DM&E.                                  |
| 8. Workshop Van                                                   | 1    | 14.2.78          | 9.2.79                      | 3.4.78               | 15.1.79                                                | 20.3.79                     |                               |                          |                      |                           |                                |                  | At M.I.                                                                                                       |
| 9. Spares for International Trucks                                |      |                  |                             |                      | 5.6.79                                                 |                             | 21.9.79                       |                          |                      |                           |                                |                  |                                                                                                               |
| 10. Truck Van/w cinema equipemnt                                  | 1    |                  |                             | Aug.'80              | 17.9.80                                                |                             |                               |                          |                      |                           |                                |                  |                                                                                                               |
| 11. Bus, 30 passenger, diesel                                     | 1    |                  |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  | Tender called. No. suitable offers received. M.D.B. decided not to proceed with the purchase                  |
| 12. Ambulance                                                     | 4    |                  |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  | Order confirmed with supplier, ready for shipment                                                             |
| 13. Truck, pick up, 3/4                                           | 18   |                  |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  | Tender closed on 28.11.79 )<br>Suitable offers not received, M.D.B. decided not to proceed with the purchase. |
| 14. Field wagon 4x4                                               | 9    |                  |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  | Tender closed on 28.11.79 )                                                                                   |
| 15. Field Car 4x4                                                 | 52   | 15.1.79          |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  | Tender not proceeded with as left hand drive/F cars were available.                                           |
| 16. Field Car welding 4x4                                         | 1    |                  |                             |                      |                                                        |                             |                               |                          |                      |                           |                                |                  | Tender not called                                                                                             |
| 17. Outboard motor 4 h.p.                                         | 4    |                  |                             |                      | 8.9.78                                                 | 9.10.78                     |                               |                          |                      |                           |                                |                  | Sent to M.I.                                                                                                  |

| Item of Equipment                           | Qty. | Bids opened date | Bids being processed closed | Orders placed (date) | Shipped on (date) | Arrived in Harbour Qty/date | Cleared from Harbour Qty/date       | At Local Agents Qty/date | Taken into Inventory | Sent to Projects Qty/date | Handed over to DMLE | Present Location | Remarks                                                                                                                             |
|---------------------------------------------|------|------------------|-----------------------------|----------------------|-------------------|-----------------------------|-------------------------------------|--------------------------|----------------------|---------------------------|---------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 18. Air Compressor 350 cfm. 4 wheel diesel. | 5    | 30.12.77         |                             |                      | 19.6.78           | 26.10.78                    | 12.12.78                            |                          |                      |                           |                     |                  |                                                                                                                                     |
| 19 Drill, pneumatic T-Handle                | 20   |                  |                             |                      |                   |                             |                                     |                          |                      |                           |                     |                  | Sent to M.I.                                                                                                                        |
| 20. Mixer concrete 10/7 cu. ft.             | 12   | 30.12.77         |                             | 06.3.78              | 02.8.78           | 09.10.78                    | 25.26 Oct.78                        |                          | Yes                  |                           |                     |                  | At M.I.                                                                                                                             |
| 21. Spares for 12 concrete mixers           |      |                  |                             |                      | 13.6.79           |                             | (cleared and sent to M.I.)          |                          |                      |                           |                     |                  | At M.I.                                                                                                                             |
| 22. Vibrator, concrete                      | 24   | 30.12.77         |                             | 06.3.78              | 27.8.78           | Oct.'78                     |                                     |                          | Yes                  |                           |                     |                  | 24 sent to M.I.                                                                                                                     |
| 23. Vibrator Concrete spares                |      |                  |                             |                      |                   | 06.7.79                     | 16.9.79                             |                          |                      |                           |                     |                  | At M.I.                                                                                                                             |
| 24. Radio Transceivers SSB                  | 15   | 30.12.77         |                             |                      |                   | 12.6.78                     | June'78                             |                          |                      |                           |                     |                  | 11 at sites<br>04 at stores.                                                                                                        |
| 25. Paddy Storage and Processing equipment  |      |                  |                             |                      |                   |                             |                                     |                          |                      |                           |                     |                  | Specification reviewed by CIDA after meeting P.M.B officials. Tender called, closing on 26.11.80.                                   |
| 26. Chain saws                              | 50   | 30.12.77         |                             | 06.3.78              | 09.5.78           | Air port 30.5.78            | July'78                             |                          |                      |                           |                     |                  | 7 at R.V.D.B.<br>43 at M.I.                                                                                                         |
| 27. Chain saws parts                        |      |                  |                             |                      | 06.6.79           |                             | Cleared on 14.9.79 and sent to M.I. |                          |                      |                           |                     |                  | at M.I.                                                                                                                             |
| 28. Low Bed Trailer 45 Ton                  | 1    |                  |                             |                      |                   |                             |                                     |                          |                      |                           |                     |                  | Last Review Mission appd. purchase from Paccor Ltd., Canada. Amended specification forwarded to CIDA. for approval before purchase. |
| 29. Fuel Bowser, 2,250 gla.                 | 13   | 09.2.79          |                             |                      | 24.12.79          |                             |                                     |                          |                      | 20.2.80                   |                     |                  | 10 with Petroleum Corp and 3 at Tambuttegamz.                                                                                       |
| 30. Truck & Low Bed trailer                 | 1    | 09.2.79          |                             |                      | 24.12.79          |                             |                                     |                          |                      | 20.2.80                   |                     |                  | At Tambuttegamz.                                                                                                                    |
| 31. Lubrication & Maintenance Unit          | 1    |                  |                             | 14.3.79              | 15.5.80.          | Ship                        | not arrived yet.                    |                          |                      |                           |                     |                  |                                                                                                                                     |

5

| Item of Equipment                       | Qty. | Bids opened date | Bids being processed closed | Orders placed (date) | Shipped on (date) | Arrived in Harbour Qty/date | Cleared from Harbour Qty/date | At Local Agents Qty/date | Taken into Inventory | Sent to Handled Projects over DM.E. Qty/date | Present Location | Remarks                                |
|-----------------------------------------|------|------------------|-----------------------------|----------------------|-------------------|-----------------------------|-------------------------------|--------------------------|----------------------|----------------------------------------------|------------------|----------------------------------------|
| <u>US AID</u>                           |      |                  |                             |                      |                   |                             |                               |                          |                      |                                              |                  |                                        |
| 1. Tractor, Crawler 300 h.p.            | 3    | 27.2.78          |                             | 19.6.78              | 30.8.78           | 7th. & 8th. Nov. '78        | 22.12.78                      |                          |                      |                                              | DM.E.            | ( 10 at M.J.<br>1 at Cent Corporation. |
| 2. Tractor, Crawler 200h.p.             | 8    |                  |                             |                      |                   |                             |                               |                          |                      |                                              |                  |                                        |
| 3. Grader Motorized 123 h.p.            | 10   | 27.2.78          |                             | 14.8.78              | 8.10.78           |                             | Feb. '78                      |                          |                      | 29.3.79                                      |                  | at M.J.                                |
| 4. Vibrator Rollers 3.21                | 14   | 27.2.78          |                             |                      | 13.10.78          |                             | 8.1.79                        |                          |                      |                                              |                  | at M.J.                                |
| 5. Workshop Equipment Gr. F             |      | 27.2.79          |                             | 27.2.79              | 27.10.79          |                             | 7.2.80                        |                          |                      |                                              |                  | at Tambuttegama                        |
| 6. Monitoring Equipment - water         |      | 27.2.79          |                             | -do-                 | 2.12.79           |                             | Feb. '80                      |                          |                      |                                              |                  | at Bowatenna.                          |
| 7. Theodolites                          | 6    | 27.2.79          |                             |                      | 9.1.80            |                             |                               |                          |                      |                                              |                  | ( Head Office                          |
| 8. Levels                               | 36   | 27.2.79          |                             |                      | 9.1.80            |                             |                               | 28.3.80                  |                      |                                              |                  | (                                      |
| 9. Lubricating Unit                     |      | 30.3.79          |                             | 30.3.79              | 24.12.79          |                             | Feb. '80                      |                          |                      |                                              |                  | Head Office                            |
| 10. Current Meters                      |      | 20.3.79          |                             | 20.3.79              | Air freighted     |                             |                               |                          |                      |                                              |                  | At Kalawa                              |
| 11. Workshop Equipment Gr. E            |      | 23.3.79          |                             | 23.3.79              | 27.12.79          |                             |                               | 5.3.80                   |                      |                                              |                  | Tambuttegama                           |
| 12. Engine Testing Equipment            |      | 29.3.79          |                             | 29.3.79              | Shipped           |                             |                               | 5.3.80                   |                      |                                              |                  | Head Office                            |
| 13. Workshop Equipment Gr. A            |      | 29.3.79          |                             | 29.3.79              |                   |                             |                               | Feb. '80                 |                      |                                              |                  | Tambuttegama                           |
| 14. Workshop Equipment Gr. B.           |      | 19.3.79          |                             | 19.3.79              | 19.10.79          |                             |                               | Feb. '80                 |                      |                                              |                  | Tambuttegama                           |
| 15. Office Equipment                    |      | 29.3.79          |                             | 29.3.79              | Shipped partly    |                             |                               |                          |                      |                                              |                  | Head Office                            |
| 16. Ford Tractors 60-70 h.p.            | 31   | 27.2.78          |                             | 6.6.78               | 8.10.78           | 14.12.78                    | Dec. '80.                     |                          |                      |                                              |                  | At Kalawa                              |
| 17. Tooling set for W/Shop Equipment    |      |                  |                             |                      | 8.8.80            |                             |                               |                          |                      |                                              |                  |                                        |
| <u>U.K. GRANT</u>                       |      |                  |                             |                      |                   |                             |                               |                          |                      |                                              |                  |                                        |
| 1. Tractor, 4-wheel Drive 60-70 h.p. 50 |      |                  |                             |                      |                   | 15.10.78.                   |                               |                          |                      |                                              |                  | 50 at Galawa                           |
| 1a. D.B. Tractor Parts                  |      |                  |                             |                      | 29.6.79           |                             |                               |                          |                      |                                              | At Eppawala      |                                        |
| 2. Tractor 4-wheel Drive 40-50 h.p. 311 |      |                  |                             |                      |                   |                             |                               |                          |                      |                                              |                  | 140 So. to farmer<br>Blanc at Kalawa   |
| 2a Tractor spares                       |      |                  |                             |                      | 30.11.79          |                             |                               |                          |                      |                                              |                  |                                        |
| 3. 11 Tine Tillers                      | 25   | 18.9.78          |                             |                      | 16.3.79           |                             |                               |                          |                      |                                              |                  | At Kalawa                              |
| 4. 3 Furrow Disc Ploughs                | 30   | 18.9.78          |                             |                      | 28.2.79           |                             |                               | 24.79                    |                      |                                              |                  | At Kalawa                              |

| Item of Equipment                              | Qty. | Bids opened date | Bids being processed date | Orders placed (date) | Shipped on (date)                                                                                                                                                   | Arrived in Harbour Qty/date  | Cleared from Harbour Qty/date | At local Agents Qty/date     | Taken into Inventory | Sent to Projects Qty/date | Handed over to DM&E. Qty/date. | Present location                                |
|------------------------------------------------|------|------------------|---------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|------------------------------|----------------------|---------------------------|--------------------------------|-------------------------------------------------|
| 5. Rear Mounted Blades                         | 10   | 18.9.78          |                           |                      | 16.1.79                                                                                                                                                             |                              |                               |                              |                      |                           |                                | at Galneva                                      |
| 6. Offset Disc Harrows                         | 10   | 18.9.78          |                           |                      | 12.3.79                                                                                                                                                             |                              |                               |                              |                      |                           |                                | at Eppawala                                     |
| 7. Rotovators                                  | 10   | 18.9.78          |                           |                      | 26.4.79                                                                                                                                                             |                              | 18.7.79                       |                              |                      |                           |                                | 9 at Galneva<br>1 with local Agent for repairs. |
| 8. Front Mounted Blades                        | 10   | 18.9.78          |                           |                      | 26.7.79                                                                                                                                                             |                              |                               | Cleared and sent to Eppawala |                      |                           |                                |                                                 |
| 9. Ditchers                                    | 10   | 18.9.78          |                           |                      | 12.4.79                                                                                                                                                             |                              |                               |                              |                      |                           |                                |                                                 |
| 10. Trailers, 5 T                              | 50   | 18.9.78          |                           |                      |                                                                                                                                                                     |                              | 2.4.80                        |                              |                      |                           |                                | at Eppawala                                     |
| 11. 9 Tine Tillers                             | 111  | 18.9.78          |                           |                      |                                                                                                                                                                     |                              |                               |                              |                      |                           |                                |                                                 |
|                                                |      |                  |                           |                      | (100 on 11.1.79)<br>(100 on 16.3.79) Second lot 100 shipped on 16.3.79, cleared and at 100 at Galneva.<br>(111 On 30.11.79) Third lot of 111 cleared and at Galneva |                              |                               |                              |                      |                           |                                |                                                 |
| 12. 2 Farrow Disc Ploughs                      | 36   | 18.9.78          |                           |                      | 28.2.79                                                                                                                                                             | Cleared                      |                               |                              |                      |                           |                                | 36 at Galneva.                                  |
| 12. a Disc plough spares                       |      |                  |                           |                      | 26.7.79                                                                                                                                                             | Cleared and sent to Eppawala |                               |                              |                      |                           |                                |                                                 |
| 13. Offset Disc Harrows                        | 161  | 18.9.78          |                           |                      |                                                                                                                                                                     |                              | 161 cleared                   |                              |                      |                           |                                | 161 at Galneva.                                 |
| 14. Trailers, 3 1/2 T                          | 11   | 18.9.78          |                           |                      | 15.9.79                                                                                                                                                             |                              | 28.10.79                      |                              |                      |                           |                                | M. I.                                           |
| 15. Components for 300 Nos. Trailers (3 1/2 T) | 300  | 18.9.78          |                           |                      |                                                                                                                                                                     |                              |                               |                              |                      |                           |                                | at Galneva                                      |
| 16. Scrub Cutters                              | 5    | 18.9.78          |                           |                      | 8th. March '79                                                                                                                                                      |                              | yes                           |                              |                      |                           |                                | at Galneva                                      |

(d) IDA/NETHERLANDS CREDIT - 701 CE

|                           |    |         |  |         |         |  |         |  |  |  |  |                                                                                                |
|---------------------------|----|---------|--|---------|---------|--|---------|--|--|--|--|------------------------------------------------------------------------------------------------|
| 1. Hullers                | 25 |         |  |         |         |  |         |  |  |  |  | With Local Agents after inspection survey. 20 ready for collection. Balance 5 waiting repairs. |
| 2. Generating Sets 50 KVA | 4  | 7.12.77 |  | 28.7.78 | 12.9.79 |  | cleared |  |  |  |  | 2 at M.I.<br>2 at Mahipattaya.                                                                 |
| 3. Pump 3"                | 5  | 7.12.77 |  | 1.11.78 |         |  | cleared |  |  |  |  | at M.I.                                                                                        |

| Item of Equipment            | Qty. | Bids opened date | Bids being process- ed closed | Orders placed (date) | Shipped on (date)  | Arrived in Harbour Qty/date | Cleared from Harbour Qty/date | At Local Agents Qty/date | Taken into Inventory | Sent to Projects Qty/date | Handed over to DM&E. Qty/date. | Present Location | Remarks                                    |
|------------------------------|------|------------------|-------------------------------|----------------------|--------------------|-----------------------------|-------------------------------|--------------------------|----------------------|---------------------------|--------------------------------|------------------|--------------------------------------------|
| 4. Two Wheel Tractors        | 150  | 7.12.77          |                               | 28.12.78             |                    |                             | cleared                       |                          |                      |                           |                                |                  | a) 2 at Ventalai Far<br>b) 148 at Galneva. |
| 5. Two Wheel tractor spares  |      |                  |                               |                      | 29.9.79            |                             |                               |                          |                      |                           |                                |                  | Sold to Local Agents                       |
| 6. Radio Transceivers        | 12   |                  |                               | 28.7.78              | 14.6.79            | in Head Office              |                               |                          |                      |                           |                                |                  |                                            |
| 7. Gates AV 10 71/40         | 2    |                  |                               | 24.4.79              | 27.8.79            |                             | 19.10.78                      |                          |                      |                           |                                |                  | M. I.                                      |
| 8. Orchard Valves            |      |                  |                               |                      |                    | shipped.                    | Cleared and sent to M.I.      |                          |                      |                           |                                |                  |                                            |
| 9. Quality Control Apparatus |      |                  |                               |                      |                    |                             | 10. 1. '80                    |                          |                      |                           |                                |                  | Mahiyangana.                               |
| 10. Motor Cycles             | 89   |                  |                               |                      | shipped<br>26.4.80 |                             | June '80                      |                          |                      |                           |                                |                  | Issued to staff.                           |

(e) U.K. Grant 2/1978(Plant for Ulhitiya Reser oir)

|                         |      |  |  |         |            |         |          |         |  |  |  |  |                |
|-------------------------|------|--|--|---------|------------|---------|----------|---------|--|--|--|--|----------------|
| 1. Motorized Scrapers   | 5    |  |  | 22.2.79 | 26.4.79    | 4.6.79  | Aug. '79 |         |  |  |  |  |                |
| 2. Bulldozers           | 4    |  |  | 22.2.79 |            |         | cleared  |         |  |  |  |  | Handed over to |
| 3. Motorgrader 125 H    | 1    |  |  | 14.2.79 | 6.4.79     | 3.6.79  | 15.6.79  | 19.6.79 |  |  |  |  | -do-           |
| 4. Fuel Tanker          | 1    |  |  | 14.2.79 | 30.12.79   |         | Jan. '80 |         |  |  |  |  | -do-           |
| 5. Wagon Drills         | 2    |  |  | 14.2.79 |            | May '79 | 27.6.79  |         |  |  |  |  |                |
| 6. Span Bridges         | 14 ) |  |  | 22.3.79 | shipped on | 29.6.79 | cleared  |         |  |  |  |  | With CDE.      |
| 7. Steel Decks & Towers | 8 )  |  |  |         |            |         |          |         |  |  |  |  |                |

(f) I. B. R. D. Loan 553 CE.

|                                  |     |         |  |         |                              |        |                       |  |  |  |  |  |          |
|----------------------------------|-----|---------|--|---------|------------------------------|--------|-----------------------|--|--|--|--|--|----------|
| 1. Drill Rods                    | 100 | 27.9.78 |  | 22.1.79 |                              |        | 22.5.79               |  |  |  |  |  | At M.I.  |
| 2. Concrete Pocker Vibrators     | 50  | 27.9.78 |  | 23.1.79 | 3.6.79                       |        | July '80              |  |  |  |  |  | Tambutte |
| 3. Air Compressors<br>- 600 CFM. | 4   | 27.9.78 |  | 22.1.79 | 2 on 4.6.79<br>2 on 10.12.79 | )<br>) | Feb. '80<br>March '80 |  |  |  |  |  | At M. :  |

| Item of Equipment                     | Qty. | Bill opened date | Bill being processed - (date) | Orders placed (date) | Shipped on (date)        | Arrived in Harbour Qty/date                       | Cleared from Harbour Qty/date | At Local Agents Qty/date | Taken into Inventory | Sent to London Projects over DM.E. Qty/date | Present location                                       | Notes |
|---------------------------------------|------|------------------|-------------------------------|----------------------|--------------------------|---------------------------------------------------|-------------------------------|--------------------------|----------------------|---------------------------------------------|--------------------------------------------------------|-------|
| 4. Front End Loaders                  | 6    | 27.9.78          |                               | 24.1.79              | 10.4.79                  |                                                   | June '79                      | 10.6.79                  |                      |                                             | At M.I.                                                |       |
| 5. Portable Air Compressors - 210 CFM | 8    |                  |                               |                      |                          | 3 Nos. shipped May '79<br>5 Nos. in July '79      | June & July '79               |                          |                      |                                             | At M.I.                                                |       |
| 6. Vibratory Rollers                  | 10   | 27.9.78          |                               | 27.2.79              | 7.5.79                   |                                                   | 7.7.79                        |                          |                      |                                             | At M.I.                                                |       |
| 7. Rock Drills                        | 20   | 27.9.78          |                               | 7.2.79               | June '79                 |                                                   | July '79                      |                          |                      |                                             | At M.I.                                                |       |
| 8. Road Rollers                       | 10   | 27.9.79          |                               | 24.1.79              | 29.10.79                 |                                                   | August '79                    |                          |                      |                                             | At M.I.                                                |       |
| 9. 10 KVA Generating Sets             | 10   | 27.9.78          |                               | 20.2.79              | 22.9.79                  |                                                   | 22.10.79                      |                          |                      |                                             | { 6 at Maduruoya, 2 M.I.<br>2 Mahiyangana.             |       |
| 10. 25 KVA Generating Sets            | 10   | 27.9.78          |                               | 21.2.79              | 14.9.79                  |                                                   | Oct. '79                      |                          |                      |                                             |                                                        |       |
| 11. Compressors Air Hand Grinders     | 10   | 27.9.78          |                               | 20.1.79              | about 16.7.79            |                                                   | Cleared in Nov. '79           |                          |                      |                                             | Sent to M.I.                                           |       |
| 12. Stone Crushers                    | 15   | 27.9.78          |                               | 6.3.79               | (10 shipped on 23.10.79) | (15 Engines '79)<br>(15 Crushers Nov. & Dec. '79) |                               |                          |                      |                                             | 1 at SD&CC<br>2 at Mahiyangana<br>12 at M.I.           |       |
| 13. Tipping Lorries                   | 12   | 27.9.78          |                               | 15.2.79              | 30.10.79                 |                                                   | Dec. '79                      |                          |                      |                                             | At M.I.                                                |       |
| 14. Theodolites                       | 7    | 27.9.78          |                               | 19.3.79              | Cleared                  |                                                   | 27.9.79                       |                          |                      |                                             | At Head Office                                         |       |
| 15. Track Drills                      | 4    |                  |                               |                      | 19.10.79                 |                                                   | 2 on 13.12.79                 |                          |                      |                                             | 4 at M.I.                                              |       |
| 16. Concrete Mixers 5 - 3/4 ton       | 30   |                  |                               |                      | 26.10.79                 |                                                   | Dec. '79                      |                          |                      |                                             | { 10 at Mahiyangana<br>15 at Maduruoya<br>5 at Galneva |       |
| 17. Diesel Cars                       | 15   |                  |                               | Order lapsed         |                          |                                                   |                               |                          |                      |                                             |                                                        |       |

# H<sub>4</sub> & H<sub>5</sub> AREAS - REVISED CONSTRUCTION PROGRAMME FOR BALANCE WORK

ANNEX 4

89

Maximum Available Document

| ITEM                                                        | TOTAL EST. | BALANCE EST. | UNIT | 1980                    |          |       |       |     |      |      |        |           |         |          |          | 1981    |          |       |       |     |      |      |        |           |         |          |          |
|-------------------------------------------------------------|------------|--------------|------|-------------------------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
|                                                             |            |              |      | JANUARY                 | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER |
| 1. R. B. MAIN CANAL                                         | 20         | —            | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 2. BRANCH CANALS                                            | 20         | 20           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 3. JUNGLE CLEARING                                          | 40,000     | 1200         | ACR  | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 4. IRRIGATION INFRASTRUCTURE                                |            |              |      | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 4.1. DISTRIBUTORY CANAL                                     | 14,500     | 2,80         | C.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 4.2. FIELD CANAL                                            | 10,000     | 2,000        | C.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 4.3. DRAINAGE CANAL                                         | 15,500     | 12,600       | C.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 5. ON FARM DEVELOPMENT (MACHINE COMPONENT ONLY)             | 2,250      | 15,120       | ACR  | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 6. MARKET ROADS (INSTALLING A FARRINGS)                     | 75         | 25           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 7. POPULATION CENTRES (L.A.S.D. WORK AND INTERNAL ROADS)    | 20         | 20           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 7.1. HAMLETS                                                |            |              |      | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 7.2. TOWNSHIPS & VILLAGE CENTRES                            | 24         | 24           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8. SOCIAL & AGRI. INFRASTRUCTURE                            |            |              |      | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.1. SCHOOLS, POST OFFICES & POLICE STATIONS                | 60         | 47           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.2. MEDICAL CENTRES                                        | 28         | 28           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.3. HAMLET WELLS                                           | 1,200      | 1,200        | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.4. SEED & FERTILIZER STORES & CO-OPERATIVE DEPOTS         | 64         | 16           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.5. GRAIN STORES & PNB COMPLEX                             | 100        | 28           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.6. PROJECT MANAGEMENT OFFICES & QUARTERS                  | 200        | 24           | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 8.7. AGRICULTURAL & COMMUNITY TRAINING & RESEARCH BUILDINGS | 12         | 2            | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 9. SETTLEMENT (90%)                                         | 4,375      | 2,625        | M.S. | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |
| 10. WATER DELIVERY (FOR IRRIGATED CROPPING)                 |            |              |      | C O N S T R U C T I O N |          |       |       |     |      |      |        |           |         |          |          |         |          |       |       |     |      |      |        |           |         |          |          |

M.D.B.  
P & E DIVISION  
1247-08-3

# H4 & H5 AREAS - PROGRESS CONTROL SCHEDULE

69

| NO. | IRRIGATION |        |       |        |       | INFRASTRUCTURE |      |       |       |       | LAND ACQUISITION |       |       |       |       | SOCIAL |       |        |        |        | INFRASTRUCTURE |        |        |        |        | SETTLEMENT |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----|------------|--------|-------|--------|-------|----------------|------|-------|-------|-------|------------------|-------|-------|-------|-------|--------|-------|--------|--------|--------|----------------|--------|--------|--------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|     | 1          | 2      | 3     | 4      | 5     | 6              | 7    | 8     | 9     | 10    | 11               | 12    | 13    | 14    | 15    | 16     | 17    | 18     | 19     | 20     | 21             | 22     | 23     | 24     | 25     | 26         | 27     | 28     | 29     | 30     | 31     | 32     | 33     | 34     | 35     |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 401 | 1500       | 22 100 | 2 100 | 32 100 | 78 97 | 21 3           | 21 9 | 21 18 | 21 27 | 21 36 | 21 45            | 21 54 | 21 63 | 21 72 | 21 81 | 21 90  | 21 99 | 21 108 | 21 117 | 21 126 | 21 135         | 21 144 | 21 153 | 21 162 | 21 171 | 21 180     | 21 189 | 21 198 | 21 207 | 21 216 | 21 225 | 21 234 | 21 243 | 21 252 | 21 261 | 21 270 | 21 279 | 21 288 | 21 297 | 21 306 | 21 315 | 21 324 | 21 333 | 21 342 | 21 351 | 21 360 | 21 369 | 21 378 | 21 387 | 21 396 | 21 405 | 21 414 | 21 423 | 21 432 | 21 441 | 21 450 | 21 459 | 21 468 | 21 477 | 21 486 | 21 495 | 21 504 | 21 513 | 21 522 | 21 531 | 21 540 | 21 549 | 21 558 | 21 567 | 21 576 | 21 585 | 21 594 | 21 603 | 21 612 | 21 621 | 21 630 | 21 639 | 21 648 | 21 657 | 21 666 | 21 675 | 21 684 | 21 693 | 21 702 | 21 711 | 21 720 | 21 729 | 21 738 | 21 747 | 21 756 | 21 765 | 21 774 | 21 783 | 21 792 | 21 801 | 21 810 | 21 819 | 21 828 | 21 837 | 21 846 | 21 855 | 21 864 | 21 873 | 21 882 | 21 891 | 21 900 | 21 909 | 21 918 | 21 927 | 21 936 | 21 945 | 21 954 | 21 963 | 21 972 | 21 981 | 21 990 | 21 999 | 21 1008 | 21 1017 | 21 1026 | 21 1035 | 21 1044 | 21 1053 | 21 1062 | 21 1071 | 21 1080 | 21 1089 | 21 1098 | 21 1107 | 21 1116 | 21 1125 | 21 1134 | 21 1143 | 21 1152 | 21 1161 | 21 1170 | 21 1179 | 21 1188 | 21 1197 | 21 1206 | 21 1215 | 21 1224 | 21 1233 | 21 1242 | 21 1251 | 21 1260 | 21 1269 | 21 1278 | 21 1287 | 21 1296 | 21 1305 | 21 1314 | 21 1323 | 21 1332 | 21 1341 | 21 1350 | 21 1359 | 21 1368 | 21 1377 | 21 1386 | 21 1395 | 21 1404 | 21 1413 | 21 1422 | 21 1431 | 21 1440 | 21 1449 | 21 1458 | 21 1467 | 21 1476 | 21 1485 | 21 1494 | 21 1503 | 21 1512 | 21 1521 | 21 1530 | 21 1539 | 21 1548 | 21 1557 | 21 1566 | 21 1575 | 21 1584 | 21 1593 | 21 1602 | 21 1611 | 21 1620 | 21 1629 | 21 1638 | 21 1647 | 21 1656 | 21 1665 | 21 1674 | 21 1683 | 21 1692 | 21 1701 | 21 1710 | 21 1719 | 21 1728 | 21 1737 | 21 1746 | 21 1755 | 21 1764 | 21 1773 | 21 1782 | 21 1791 | 21 1800 | 21 1809 | 21 1818 | 21 1827 | 21 1836 | 21 1845 | 21 1854 | 21 1863 | 21 1872 | 21 1881 | 21 1890 | 21 1899 | 21 1908 | 21 1917 | 21 1926 | 21 1935 | 21 1944 | 21 1953 | 21 1962 | 21 1971 | 21 1980 | 21 1989 | 21 1998 | 21 2007 | 21 2016 | 21 2025 | 21 2034 | 21 2043 | 21 2052 | 21 2061 | 21 2070 | 21 2079 | 21 2088 | 21 2097 | 21 2106 | 21 2115 | 21 2124 | 21 2133 | 21 2142 | 21 2151 | 21 2160 | 21 2169 | 21 2178 | 21 2187 | 21 2196 | 21 2205 | 21 2214 | 21 2223 | 21 2232 | 21 2241 | 21 2250 | 21 2259 | 21 2268 | 21 2277 | 21 2286 | 21 2295 | 21 2304 | 21 2313 | 21 2322 | 21 2331 | 21 2340 | 21 2349 | 21 2358 | 21 2367 | 21 2376 | 21 2385 | 21 2394 | 21 2403 | 21 2412 | 21 2421 | 21 2430 | 21 2439 | 21 2448 | 21 2457 | 21 2466 | 21 2475 | 21 2484 | 21 2493 | 21 2502 | 21 2511 | 21 2520 | 21 2529 | 21 2538 | 21 2547 | 21 2556 | 21 2565 | 21 2574 | 21 2583 | 21 2592 | 21 2601 | 21 2610 | 21 2619 | 21 2628 | 21 2637 | 21 2646 | 21 2655 | 21 2664 | 21 2673 | 21 2682 | 21 2691 | 21 2700 | 21 2709 | 21 2718 | 21 2727 | 21 2736 | 21 2745 | 21 2754 | 21 2763 | 21 2772 | 21 2781 | 21 2790 | 21 2799 | 21 2808 | 21 2817 | 21 2826 | 21 2835 | 21 2844 | 21 2853 | 21 2862 | 21 2871 | 21 2880 | 21 2889 | 21 2898 | 21 2907 | 21 2916 | 21 2925 | 21 2934 | 21 2943 | 21 2952 | 21 2961 | 21 2970 | 21 2979 | 21 2988 | 21 2997 | 21 3006 | 21 3015 | 21 3024 | 21 3033 | 21 3042 | 21 3051 | 21 3060 | 21 3069 | 21 3078 | 21 3087 | 21 3096 | 21 3105 | 21 3114 | 21 3123 | 21 3132 | 21 3141 | 21 3150 | 21 3159 | 21 3168 | 21 3177 | 21 3186 | 21 3195 | 21 3204 | 21 3213 | 21 3222 | 21 3231 | 21 3240 | 21 3249 | 21 3258 | 21 3267 | 21 3276 | 21 3285 | 21 3294 | 21 3303 | 21 3312 | 21 3321 | 21 3330 | 21 3339 | 21 3348 | 21 3357 | 21 3366 | 21 3375 | 21 3384 | 21 3393 | 21 3402 | 21 3411 | 21 3420 | 21 3429 | 21 3438 | 21 3447 | 21 3456 | 21 3465 | 21 3474 | 21 3483 | 21 3492 | 21 3501 | 21 3510 | 21 3519 | 21 3528 | 21 3537 | 21 3546 | 21 3555 | 21 3564 | 21 3573 | 21 3582 | 21 3591 | 21 3600 | 21 3609 | 21 3618 | 21 3627 | 21 3636 | 21 3645 | 21 3654 | 21 3663 | 21 3672 | 21 3681 | 21 3690 | 21 3699 | 21 3708 | 21 3717 | 21 3726 | 21 3735 | 21 3744 | 21 3753 | 21 3762 | 21 3771 | 21 3780 | 21 3789 | 21 3798 | 21 3807 | 21 3816 | 21 3825 | 21 3834 | 21 3843 | 21 3852 | 21 3861 | 21 3870 | 21 3879 | 21 3888 | 21 3897 | 21 3906 | 21 3915 | 21 3924 | 21 3933 | 21 3942 | 21 3951 | 21 3960 | 21 3969 | 21 3978 | 21 3987 | 21 3996 | 21 4005 | 21 4014 | 21 4023 | 21 4032 | 21 4041 | 21 4050 | 21 4059 | 21 4068 | 21 4077 | 21 4086 | 21 4095 | 21 4104 | 21 4113 | 21 4122 | 21 4131 | 21 4140 | 21 4149 | 21 4158 | 21 4167 | 21 4176 | 21 4185 | 21 4194 | 21 4203 | 21 4212 | 21 4221 | 21 4230 | 21 4239 | 21 4248 | 21 4257 | 21 4266 | 21 4275 | 21 4284 | 21 4293 | 21 4302 | 21 4311 | 21 4320 | 21 4329 | 21 4338 | 21 4347 | 21 4356 | 21 4365 | 21 4374 | 21 4383 | 21 4392 | 21 4401 | 21 4410 | 21 4419 | 21 4428 | 21 4437 | 21 4446 | 21 4455 | 21 4464 | 21 4473 | 21 4482 | 21 4491 | 21 4500 | 21 4509 | 21 4518 | 21 4527 | 21 4536 | 21 4545 | 21 4554 | 21 4563 | 21 4572 | 21 4581 | 21 4590 | 21 4599 | 21 4608 | 21 4617 | 21 4626 | 21 4635 | 21 4644 | 21 4653 | 21 4662 | 21 4671 | 21 4680 | 21 4689 | 21 4698 | 21 4707 | 21 4716 | 21 4725 | 21 4734 | 21 4743 | 21 4752 | 21 4761 | 21 4770 | 21 4779 | 21 4788 | 21 4797 | 21 4806 | 21 4815 | 21 4824 | 21 4833 | 21 4842 | 21 4851 | 21 4860 | 21 4869 | 21 4878 | 21 4887 | 21 4896 | 21 4905 | 21 4914 | 21 4923 | 21 4932 | 21 4941 | 21 4950 | 21 4959 | 21 4968 | 21 4977 | 21 4986 | 21 4995 | 21 5004 | 21 5013 | 21 5022 | 21 5031 | 21 5040 | 21 5049 | 21 5058 | 21 5067 | 21 5076 | 21 5085 | 21 5094 | 21 5103 | 21 5112 | 21 5121 | 21 5130 | 21 5139 | 21 5148 | 21 5157 | 21 5166 | 21 5175 | 21 5184 | 21 5193 | 21 5202 | 21 5211 | 21 5220 | 21 5229 | 21 5238 | 21 5247 | 21 5256 | 21 5265 | 21 5274 | 21 5283 | 21 5292 | 21 5301 | 21 5310 | 21 5319 | 21 5328 | 21 5337 | 21 5346 | 21 5355 | 21 5364 | 21 5373 | 21 5382 | 21 5391 | 21 5400 | 21 5409 | 21 5418 | 21 5427 | 21 5436 | 21 5445 | 21 5454 | 21 5463 | 21 5472 | 21 5481 | 21 5490 | 21 5499 | 21 5508 | 21 5517 | 21 5526 | 21 5535 | 21 5544 | 21 5553 | 21 5562 | 21 5571 | 21 5580 | 21 5589 | 21 5598 | 21 5607 | 21 5616 | 21 5625 | 21 5634 | 21 5643 | 21 5652 | 21 5661 | 21 5670 | 21 5679 | 21 5688 | 21 5697 | 21 5706 | 21 5715 | 21 5724 | 21 5733 | 21 5742 | 21 5751 | 21 5760 | 21 5769 | 21 5778 | 21 5787 | 21 5796 | 21 5805 | 21 5814 | 21 5823 | 21 5832 | 21 5841 | 21 5850 | 21 5859 | 21 5868 | 21 5877 | 21 5886 | 21 5895 | 21 5904 | 21 5913 | 21 5922 | 21 5931 | 21 5940 | 21 5949 | 21 5958 | 21 5967 | 21 5976 | 21 5985 | 21 5994 | 21 6003 | 21 6012 | 21 6021 | 21 6030 | 21 6039 | 21 6048 | 21 6057 | 21 6066 | 21 6075 | 21 6084 | 21 6093 | 21 6102 | 21 6111 | 21 6120 | 21 6129 | 21 6138 | 21 6147 | 21 6156 | 21 6165 | 21 6174 | 21 6183 | 21 6192 | 21 6201 | 21 6210 | 21 6219 | 21 6228 | 21 6237 | 21 6246 | 21 6255 | 21 6264 | 21 6273 | 21 6282 | 21 6291 | 21 6300 | 21 6309 | 21 6318 | 21 6327 | 21 6336 | 21 6345 | 21 6354 | 21 6363 | 21 6372 | 21 6381 | 21 6390 | 21 6399 | 21 6408 | 21 6417 | 21 6426 | 21 6435 | 21 6444 | 21 6453 | 21 6462 | 21 6471 | 21 6480 | 21 6489 | 21 6498 | 21 6507 | 21 6516 | 21 6525 | 21 6534 | 21 6543 | 21 6552 | 21 6561 | 21 6570 | 21 6579 | 21 6588 | 21 6597 | 21 6606 | 21 6615 | 21 6624 | 21 6633 | 21 6642 | 21 6651 | 21 6660 | 21 6669 | 21 6678 | 21 6687 | 21 6696 | 21 6705 | 21 6714 | 21 6723 | 21 6732 | 21 6741 | 21 6750 | 21 6759 | 21 6768 | 21 6777 | 21 6786 | 21 6795 | 21 6804 | 21 6813 | 21 6822 | 21 6831 | 21 6840 | 21 6849 | 21 6858 | 21 6867 | 21 6876 | 21 6885 | 21 6894 | 21 6903 | 21 6912 | 21 6921 | 21 6930 | 21 6939 | 21 6948 | 21 6957 | 21 6966 | 21 6975 | 21 6984 | 21 6993 | 21 7002 | 21 7011 | 21 7020 | 21 7029 | 21 7038 | 21 7047 | 21 7056 | 21 7065 | 21 7074 | 21 7083 | 21 7092 | 21 7101 | 21 7110 | 21 7119 | 21 7128 | 21 7137 | 21 7146 | 21 7155 | 21 7164 | 21 7173 | 21 7182 | 21 7191 | 21 7200 | 21 7209 | 21 7218 | 21 7227 | 21 7236 | 21 7245 | 21 7254 | 21 7263 | 21 7272 | 21 7281 | 21 7290 | 21 7299 | 21 7308 | 21 7317 | 21 7326 | 21 7335 | 21 7344 | 21 7353 | 21 7362 | 21 7371 | 21 7380 | 21 7389 | 21 7398 | 21 7407 | 21 7416 | 21 7425 | 21 7434 | 21 7443 | 21 7452 | 21 7461 | 21 7470 | 21 7479 | 21 7488 | 21 7497 | 21 7506 | 21 7515 | 21 7524 | 21 7533 | 21 7542 | 21 7551 | 21 7560 | 21 7569 | 21 7578 | 21 7587 | 21 7596 | 21 7605 | 21 7614 | 21 7623 | 21 7632 | 21 7641 | 21 7650 | 21 7659 | 21 7668 | 21 7677 | 21 7686 | 21 7695 | 21 7704 | 21 7713 | 21 7722 | 21 7731 | 21 7740 | 21 7749 | 21 7758 | 21 7767 | 21 7776 | 21 7785 | 21 7794 | 21 7803 | 21 7812 | 21 7821 | 21 7830 | 21 7839 | 21 7848 | 21 7857 | 21 7866 | 21 7875 | 21 7884 | 21 7893 | 21 7902 | 21 7911 | 21 7920 | 21 7929 | 21 7938 | 21 7947 | 21 7956 | 21 7965 | 21 7974 | 21 7983 | 21 7992 | 21 8001 | 21 8010 | 21 8019 | 21 8028 | 21 8037 | 21 8046 | 21 8055 | 21 8064 | 21 8073 | 21 8082 | 21 8091 | 21 8100 | 21 8109 | 21 8118 | 21 8127 | 21 8136 | 21 8145 | 21 8154 | 21 8163 | 21 8172 | 21 8181 | 21 8190 | 21 8199 | 21 8208 | 21 8217 | 21 8226 | 21 8235 | 21 8244 | 21 8253 |