

2. to conduct a feasibility study on Extension of Walawe Left Bank (approximately 15,000 ha.);
3. to undertake on-the-job training of the Government's officials in the course of the study.

### III. STUDY AREA

The study area is to cover Walawe Left Bank, 30,000 ha. (Location map attached in Annex 2).

### IV. SCOPE OF THE STUDY


In order to achieve the above objectives, the Study will cover the following items.

#### PHASE I STUDY

1. Collection and analysis of the relevant existing data and information, and field survey including:

##### (1) Natural condition

- a. Topography
- b. Meteorology and hydrology
- c. Geology and soil
- d. Others

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(2) Agriculture


- a. Land use and tenure
- b. Cropping pattern, yield and Livestock
- c. Agro-economy and institution
- d. Others

(3) Agricultural infrastructure

- a. Irrigation and drainage
- b. Farm road
- c. Other rural infrastructure

(4) Socio-economic situation

- a. Population, household and farmers
- b. Regional socio-economy and farm household economy
- c. Extension services
- d. Social and farmers organizations
- e. Agricultural credit
- f. Farmers' intension
- g. Marketing
- h. Others

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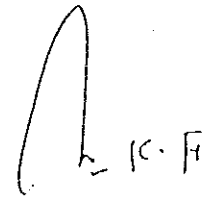
(5) Other information related to the project

- a. Administrative organizations related to the project
  - b. Environmental impact
  - c. Others
2. Formulation of an agricultural development plan of Walawe Left Bank (old area and extension)
  3. Formulation of an irrigation and drainage plan of Walawe Left Bank (old area and extension).

PHASE II STUDY

1. Feasibility Study in the extension area of Walawe Left Bank. The Study covers the following items:

- (1) Additional field survey, data collection and analysis including;
  - a. Hydrology and meteorology
  - b. Geology and soil classification
  - c. Land use and tenure
  - d. Cropping pattern, yield and Livestock
  - e. Irrigation and drainage
  - f. Inundation problem, flood damage
  - g. Water requirement for crop and domestic use
  - h. Regional socio-economy and farm household economy
  - i. Social and farmers organizations (inclusive of training)




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- j. Farm power
  - k. Construction materials
  - l. Environment
  - m. Post Harvest Technology, Marketing and Agro-Industry
  - n. Others
- (2) Formulation of an agricultural development programme.
  - (3) Formulation of irrigation and drainage development programme
  - (4) Preliminary design of the major structures of the Project
  - (5) Formulation of Plan for Irrigation system management (inclusive of operation and maintenance plan for irrigation and drainage).
  - (6) Verification of feasibility
    - a. Preparation of the implementation schedule
    - b. Estimation of the project costs and benefits
  - (7) Recommendation

#### V. THE STUDY SCHEDULE

The Study will be carried out in accordance with the tentative schedule attached in Annex 1.

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## VI. REPORTS

JICA will prepare and submit the following reports in English to the Government of Sri Lanka.

1. Inception Report

Thirty (30) copies at the commencement of the Phase I Study.

2. Progress Report (I)

Thirty (30) copies at the end of the field work of the Phase I Study.

3. Interim Report

Thirty (30) copies at the commencement of the Phase II Study.


4. Progress Report (II)

Thirty (30) copies at the end of the field work of the Phase II Study.

5. Draft Final Report

Thirty (30) copies within one (1) month after the end of the Phase II Study.

The Government of Sri Lanka shall provide its comments on the Draft Final Report within one (1) month after its reception.



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6. Final Report

Fifty (50) copies within two (2) months after the receipt of the comments on the Draft Final Report.

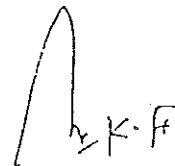
VII. UNDERTAKING OF THE GOVERNMENT OF SRI LANKA

1. To facilitate smooth conduct of the Study, the Government of Sri Lanka shall take necessary measures;

- (1) to secure the safety of the Study Team,
- (2) to permit the members of the Japanese Study Team, to enter, leave and sojourn in Sri Lanka for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees,
- (3) to exempt the members of the Japanese Study Team from taxes, duties, fees and other charges on equipment, machinery and other materials brought into Sri Lanka for the conduct of the Study,
- (4) to exempt the members of the Japanese Study Team from income tax and other charges of any kind imposed on or in connection with any emoluments or allowance paid to the members of the Japanese Study Team for their services in connection with the implementation of the Study,

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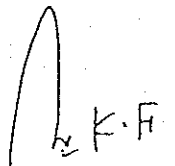
- (5) to provide necessary facilities to the Japanese Study Team for remittances as well as utilization of the funds introduced into Sri Lanka from Japan in connection with the implementation of the Study,
  - (6) to secure permission for entry into private properties or restricted areas for the conduct of the Study, according to prevailing regulations of the Government of Sri Lanka,
  - (7) to secure permission to use all data and documents related to the Study including photographs in Japan,
  - (8) to provide medical services as needed. Its expenses will be chargeable on the members of the Japanese Study Team.
2. The Government of Sri Lanka will bear claims, if any arises, against the members of the Japanese Study Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese Study Team.

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3. The Ministry of Lands, Irrigation and Mahaweli Development of Sri Lanka (hereinafter referred to as "the Ministry") shall act as counterpart agency to the Japanese Study Team and also as coordinating body to other relevant organizations for the smooth implementation of the Study.
  
4. The Ministry shall, at its own expense, provide the Japanese Study Team with the following, in cooperation with other agencies concerned, if necessary:
  - (1) Available data and information related to the Study
  - (2) Counterpart personnel
  - (3) Suitable office with necessary equipment and furniture
  - (4) Necessary number of vehicles with drivers
  - (5) Credentials or identification cards to the members of the Japanese Study Team
  - (6) Supplementary engineering survey  
topographic survey

#### VIII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:


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1. To dispatch, at its own expense, the Study Team to Sri Lanka,
2. To pursue technology transfer to the Sri Lanka counterpart personnel in the course of the Study.

IX. OTHERS


JICA and Ministry of Lands, Irrigation and Mahaweli Development of Sri Lanka will consult with each other in respect of any matter that may arise from or in connection with the Study.

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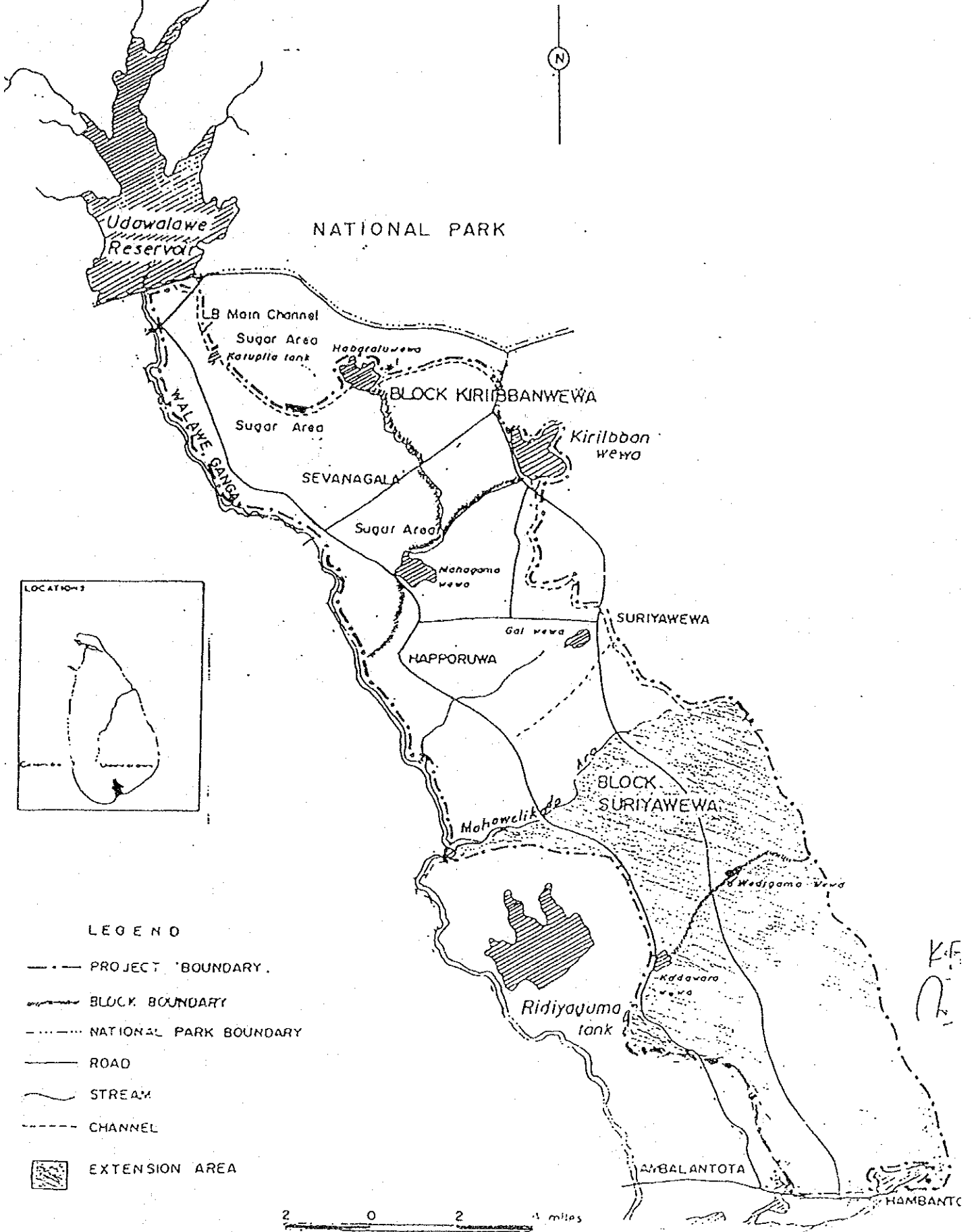
## TENTATIVE SCHEDULE

Item \ Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
WORK IN SRI LANKA		=====								=====						≡ ○			
WORK IN JAPAN	□						=====						=====						
REPORTS	△		△						△			△			△				△
	INC/R		P/R (I)						INT/R			P/R (II)			DF/R				F/R

(Remarks) INC/R : Inception Report      P/R : Progress Report  
 INT/R : Interim Report      DF/R : Draft Final Report  
 F/R : Final Report  
 ○ Comments on DF/R by SRI LANKA side

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# WALAWE IRRIGATION UPGRADING AND EXTENSION PROJECT (LEFT BANK)



JICA