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**SOUTH EAST JOHOR PROJECT TANJONG PENGERANG AND  
JOHOR TENGAH REGIONAL MASTER PLAN**

FOR  
THE GOVERNMENT OF MALAYSIA  
AND  
THE STATE OF JOHOR

**PROGRESS REPORT**

No. 2

DECEMBER 1969

● HUNTING TECHNICAL SERVICES — LAND USE AND AGRICULTURAL CONSULTANTS ●

●  
BINNIE AND PARTNERS  
CONSULTING ENGINEERS

●  
OVERSEAS DEVELOPMENT GROUP  
UNIVERSITY OF EAST ANGLIA  
SOCIO ECONOMIC STUDIES

●  
SHANKLAND COX OVERSEAS  
PLANNING CONSULTANTS

SOUTH EAST JOHOR PROJECT TANJONG PENGGERANG AND  
JOHOR TENGAH REGIONAL MASTER PLAN STUDY  
FOR THE  
GOVERNMENT OF MALAYSIA & THE STATE OF JOHOR

PROGRESS REPORT NO. 2

<u>CONTENTS</u>	<u>PAGE</u>
PROJECT MANAGEMENT	1
1. Staffing	1
2. Administration & Finance	2
3. Schedule of Work	3
PROGRESS	
SECTION A: NATURAL RESOURCE STUDIES	4
1. Soil Survey	4
2. Agriculture & Livestock	4
3. Forestry	6
4. Mining	6
5. Water Resources	6
6. Study Papers	8
SECTION B: INFRA-STRUCTURAL URBAN & INDUSTRIAL DEVELOPMENT STUDIES	8
SECTION C: SOCIO-ECONOMIC ASPECTS & INSTITUTIONAL INFRA-STRUCTURE	9
APPENDIX	
Progress Chart	At cover

PROJECT MANAGEMENT

1. STAFFING

<u>Post No:</u>	<u>Name:</u>	<u>Designation:</u>	<u>Chargeable Date:</u>
1	W.C. Swinson	Project Manager	19.8.69
2	H.A. Rancom	Administrative Manager	19.8.69
3	J.W. Trevett	Survey Liaison	7.10.69
4	I.L.A. Ysselmuiden	Project Soil Surveyor	19.8.69
5	R.D. Law	Soil Surveyor I	28.8.69
6	D.A. Holmes	Soil Surveyor II	28.8.69
8	R.A.J. Harrison	Agronomist/Fisheries Officer	4.9.69
9	F.A. Sole	Agricultural Economist	6.9.69
11	C.L. Carrier	Forest Liaison	29.9.69
16	A.T. Fairley	Project Engineer	15.9.69
17	T.J. Reardon	Hydrologist	4.12.69
18	T.T. Wong	Water Engineer	3-11.11.69 30.11.69
20	A.S. Mackintosh	Supervising Economist	28.9.69 to 30.11.69
21	C.B. Edwards	Project Economist	3.9.69
22	J.C. English	Development Economist	9.9.69
24	M.N. Holmström	Social Development Specialist	25.9.69
29	R.J. Spooner	Area Manager	9-18.11.69 22-26.11.69
34	M. Mansell-Moullin	Hydrological Specialist	31.10.69 to 14.11.69
-	P.G. Adlard	Forestry Specialist from Commonwealth Forestry Institute without charge	24.10.69 to 9.11.69

TRANSFERS: Nil.

DEPARTURES: Professor A.S. Mackintosh Supervising  
Economist -- 30.11.69

VISITORS:

Inche Abu Hassan bin Omar	}	Economic	12-14.11.69
Inche A. Selvanathan		Planning	12-14.11.69
Mr. W.P. Panton		Unit	12.11.69
Mr. W. Turner, British High Commission Kuala Lumpur			12.11.69

2. ADMINISTRATION & FINANCE

a) Housing: All staff are satisfactorily housed.

b) Offices: The contract for the re-wiring and air-conditioning of the offices was let on December 13th. Work is expected to be completed in early January.

c) Transport:

Project strength:

- 1 Ford Cortina
- 3 Ford Escorts
- 1 SWB Landrover: Diesel
- 3 LWB Landrovers: Diesel
- 5 SWB Landrovers: Petrol
- ex- Far East Land Forces Disposal Unit
- 1 BMC Minimoke
- 1 ¼ton Trailer: ex-military
- 5 Wooden Boats
- 3 40HP Outboard motors

- d) Equipment: Situation satisfactory.
- e) Communications: Regular radio contact was maintained between base and soils field parties. Movement of all field staff is reported to the Chief Police Officer Johor Baharu and the respective District Police Officers. The co-operation and assistance of all Police staff is recorded.
- f) Staff: Situation satisfactory.
- g) Funds: The second and third deposits of local funds have been received. Arrangements for the deposit and utilisation of sterling funds have been finalised.
- h) Accounts: The second and third summarised and detailed Statements of Dollar Costs were submitted to Economic Planning Unit on the due dates.
- i) Agreement: The Agreement was signed by Hunting Technical Services Limited on December 5th, 1969.

### 3. SCHEDULE OF WORK

The programme of work for the next report period is as set out in the chart at cover.

PROGRESS

SECTION A: NATURAL RESOURCE STUDIES

1. SOIL SURVEY

Further soil familiarization work was carried out in the study area and a number of soil pits were examined during a soil correlation trip with members of the Soil Science Division. A number of modal profile pits have been selected for retention for future reference.

The baseline survey trace is now progressing satisfactorily with two teams in the field. To date 23 miles have been cut and levelled in. The cross rentis for the soil survey are being cut by five teams each consisting of a compassman and five cutters. 97 miles were cut during the period under review, the running total now being 127 miles. About one week of cutting time has been lost due heavy rains.

A start has been made on the soil survey and 79 miles of rentis have been covered involving 345 bores and 13 soil pits logged and recorded and the taking of 52 soil samples for chemical and mechanical analyses. The rains have naturally slowed down progress somewhat but the delay is not serious.

The draft soils and terrain classification maps covering a large part of the Johor Tengah area have been received. As soon as the field data sheets become available, and field checks carried out the land capability maps can be prepared.

2. AGRICULTURE AND LIVESTOCK

Data collection continued throughout November and December. Work continued on the assessment of crop and livestock activities suited to the project area. The large

number of possible agricultural activities to be examined delayed production of the first Potential Agricultural Activity List until early December.

Visits were made to the State Agricultural Officer and to the crop demonstration station at Kong Kong. Here a variety of crops are being tested and it is hoped to obtain performance figures where possible. A general tour of the Kota Tinggi area was made with the Agricultural Officer and the Lukut Rice Irrigation Scheme was studied with the intention of following up its performance.

A quick tour of Batu Pahat and the west coast area was also made in November to see the patterns of farming and farming practices there. Visits were also made to the FLDA oil palm scheme at Kluang and the kampong Kahang GSA scheme for rubber.

Members of the resident staff visited Kuala Lumpur between 9th and 15th of November to attend the ISP Crop Diversification Conference. This was most interesting as well as valuable owing to the contacts that were made and the insight into government and private sector thinking on crop diversification. The opportunity was also taken to visit CCM, Kumpulan Guthries Sendirian Berhad, Dr. Puspharajah and Dr. Wycherley at the Rubber Research Institute and the Federal Agricultural Marketing Authority.

Activities during December included visits to: the Assistant Agricultural Officer at Kluang, the Pakloh estate to see mature oil palms inter-cropped with cocoa, a coffee factory in Kluang and the Fisheries Officer in Johor Baharu. A survey of types and prices of vegetables, spices, fruits, meat and fish was completed in the local market.

During the period under review much time has been devoted to the study of the livestock potential including

pasture management and performance. A visit to the Central Animal Husbandry Research Station at Kluang was very stimulating as were discussions with officers of the RRIII, the FLDA and during the Crop Diversification Conference.

Considerable progress has been made in abstracting daily rainfall records from Department of Irrigation and Drainage files and subsequent analysis in order to facilitate the estimation of climatic restraints on agricultural activities in the study area.

The land alienation maps covering the project area have now been updated, checked with the State Commissioner for Lands and Mines and discussed with the Economic Planning Unit and the Federal Land Development Authority.

### 3. FORESTRY

The rentis cutting and the enumeration parties have made good progress in the lowland areas of Johor Tengah in spite of the rains. To date some ten and one half blocks have been completed and the records despatched for conversion to paper tape for statistical analysis. The total number of blocks to be sampled are 27 in the lowland areas and 16 in the hill areas.

### 4. LINING

Data collection has commenced.

### 5. WATER RESOURCES

The hydrological study got under way early in November and a hydrological network has been designed and installations completed as follows:

River Gauging Stations - Automatic Recording:

Johor Tengah Area:

- Sungei Linggui - jungle catchment
- Sungei Sayong - cultivated catchment

Tanjong Penggerang Area:

- Sungei Mupor - jungle catchment
- Sungei Permandi - cultivated catchment

These stations will enable a comparison of run off from jungle and cultivated catchment to be made in the two areas covered by the study. In addition spot check flow measurements will be taken on at least five other rivers within the Project area and these flows will be correlated with the river gauging stations. Two of the spot check stations are on the Sungei Sayong and Sungei Pengeli and one on the Sungei Linggui. These will enable an estimate of the flow each contributes to the Sungei Johor.

It is also proposed to instal eleven new rain gauges within and near the Project areas to supplement the existing DID rain gauge network.

To date stick gauges and recorders have been installed on the Sungei Sayong, Mupor and Permandi and flow measurements taken. Five of the rain gauges have been installed. In addition monthly and yearly rainfall figures for all rainfall stations in the State of Johor have been collected together with water level measurements on certain rivers from DID sources.

A study of the water supply demands of the Johor Baharu, Kota Tinggi and Pontian Districts has also been made together with a preliminary study of the Water Agreements with the Public Utilities Board Singapore during the current report period. Arising from the latter a physical check on "downstream users" i.e. below the Public Utilities Board

intake above Kota Tinggi was carried out. We have ascertained that there are no downstream users and therefore saline intrusions due to increased abstractions by the Public Utilities Board does not appear to be, at the moment, a problem affecting the Johor State. The only exception could be some prawn ponds between Kota Tinggi and the intake.

Preliminary studies of reservoir capacity and dam costs on the Sungei Linggiu are now in hand. Should the overall Project studies indicate, at a later date, that a reservoir on this river is necessary then more detailed mapping of the proposed reservoir area will be required than that given on the one inch topo map.

#### 6. STUDY PAPERS

The Natural Resources group produced the following information and preliminary papers for discussion with the Consortium.

1. Animal Husbandry
2. Cocoa
3. Possible Agricultural Activities in South East Johor
4. The Potential for Livestock Production in South East Johor.

#### SECTION B: INFRASTRUCTURAL URBAN AND INDUSTRIAL DEVELOPMENT STUDIES

Some data has already been fed back to the special consultants who are now scheduled to arrive on the 4th January 1970 for their initial visit.

SECTION C: SOCIO-ECONOMIC ASPECTS AND INSTITUTIONAL  
INFRA-STRUCTURE

In November and December 1969, the Socio-Economic group produced the following preliminary papers for discussion within the Consortium.

1. Methodology of Socio-Economic aspects.
2. The Allocation of Land in South East Johor.
3. Market and "Potential" studies of the following commodities and activities:-  
Rubber, Oil Palm, Cocoa, Livestock products, Rice, Tapioca, Coffee, Tea, Coconuts, Maize and Groundnuts.
4. Population Statistics and Water Consumption - Johor State.
5. The Population of South East Johor - a preliminary report.
6. Land Settlement Schemes - points for discussion.
7. Forestry and Timber Utilisation in Johor State and the Implications for Forestry.

The Social Anthropologist and Development Economist are continuing their investigations into rural development administration; agricultural extension and other social services; and the characteristics, problems, and aspirations of settlers on FLDA, GSA and other types of settlement schemes.

To date, no Malaysian counterpart Social Anthropologist has been seconded to the project. Discussions are, however, still taking place. This is being treated as a matter of urgency since the assistance of a Counterpart would not only be extremely valuable to the Consultants during the study period, but, more importantly, their participation is indispensable to the continuation of further research

following the preparation of the Master Plan at the end of the study period. (See pages 14 and 15, Progress Report No. 1, October 1969 and page 4 of the Minutes of the First Meeting of the Steering Committee)

It is also hoped that a counterpart economist from the Federal Agricultural Marketing Authority (FAMA) will be starting work with the Development Economist in mid January to assist with the study of agricultural service institutions.

Discussions are also taking place with the Development Administration Unit on the work programme for counterpart assistant/assistants who it is hoped will be working with the Consultants from mid January. (See page 14 of the Progress Report.No. 1, October 1969 and page 4 of the Minutes of the First Meeting of the Steering Committee)

