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

FOR
THE GOVERNMENT OF MALAYSIA
AND
THE STATE OF JOHOR

PROGRESS REPORT

No. 1

OCTOBER 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

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JOHOR BAHRU,
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All correspondence to be addressed to THE PROJECT MANAGER

1st November, 1969.

CONFIDENTIAL

Chief Secretary to the Government,
Prime Minister's Department,
(Economics),
Kuala Lumpur.

Sir,

THE TANJONG PENGGERANG AND JOHOR TENGAH REGIONAL
MASTER PLAN PROJECT - FIRST PROGRESS REPORT

In accordance with Article III, Clause 8 of the Agreement, the Consultants are required to submit, inter alia, (a) an Inception Report within three months of the date of the Notice to Proceed and, (b) Progress Reports at two month intervals.

Therefore, in anticipation of the formal signing of the Agreement and on the assumption that the date of the Formal Notice to proceed will be retroactive to 1st September 1969, we, the Consultants, have established ourselves in Johor Baharu at the above address and have, in concert with your office continued and are continuing to build up the staff to the level required under the Agreement.

Further, and as a token of our esteem and good faith I, as the Authorised Representative of the Consultants and Project Manager now have the honour to submit the First Progress Report together with the Inception Report in order to establish and agree procedures as early as possible and further facilitate progress.

● HUNTING TECHNICAL SERVICES — LAND USE AND AGRICULTURAL CONSULTANTS ●

BINNIE AND PARTNERS
CONSULTING ENGINEERS

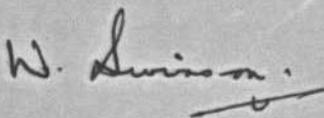
OVERSEAS DEVELOPMENT GROUP
UNIVERSITY OF EAST ANGLIA
SOCIO ECONOMIC STUDIES

SHANKLAND COX OVERSEAS
PLANNING CONSULTANTS

(2)

I trust that you will find the format of the Progress Report, which follows closely the Scope of Work (Article II Schedule "A") and the provisional Plan of Operations acceptable. Whilst the Progress Reports will only issue every two months, you will see that the Plan of Operations also serves as a monthly indicator of progress which I trust will be of value to both National and State Operation Rooms.

I have the honour to be, Sir,
Your obedient servant,



(W. Swinson)
Project Manager
SOUTH EAST JOHOR PROJECT

WS/PW

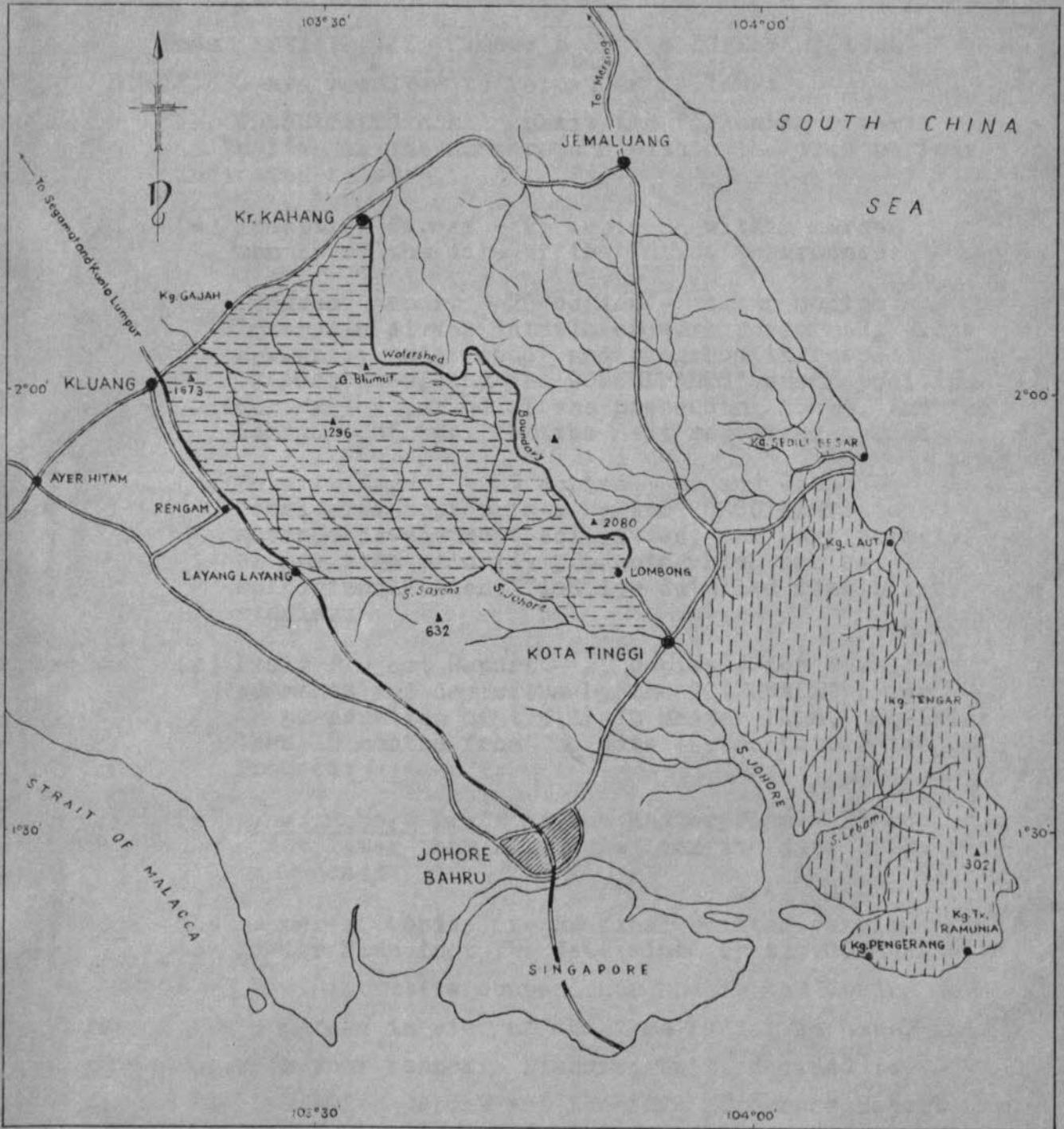
c.c. Hunting Technical Services Ltd.,
6 Elstree Way,
Boreham Wood,
Herts,
ENGLAND.

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. 1

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SOUTH EAST JOHORE PROJECT



SCALE 1:760,320
12 MILES TO ONE INCH

JOHORE TENGAH PROPOSED DEVELOPMENT REGION, 370,000 ACRES
 TANJONG PENGERANG PROPOSED DEVELOPMENT REGION, 330,000 ACRES

INTRODUCTION COVERING SUBMISSION AND REPORT FORMAT

Under Article III, Clause 8 of the AGREEMENT, the CONSULTANTS are required to report as follows:

"The CONSULTANTS shall submit the following reports in English in the numbers and within the time periods indicated below:-

- (a) Inception Report - 25 copies - within three months of the date of the Notice to Proceed;
- (b) Progress Report - 25 copies - at two months intervals giving details of work performed, areas currently under study and progress in respect of each area, and the CONSULTANTS' staff position during the period of the preceeding month, and the Schedule of work for the next reporting period.
- (c) Interim Report - 25 copies - as and when considered appropriate by the CONSULTANTS to advance development activities, and particularly on any high priority projects which can be sufficiently identified for detailed feasibility studies;
- (d) Draft Project Report - 25 copies - for detailed comments and decisions by the GOVERNMENT prior to preparation of the draft Master Plan, not later than 18 months from the date of the Notice to Proceed;
- (e) Final Report Draft of the Master Plan - 25 copies - not later than 24 months from the date of Notice to Proceed.

The number of copies of the final printed version of the Master Plan is to be determined by the GOVERNMENT."

As an administrative convenience and in the desire to facilitate progress in view of the time factor we have, in agreement with your Economic Planning Unit, decided to submit the Inception Report and the first Progress Report together so that both can be considered at the Steering Committee scheduled for 12th November, 1969.

As regards format it is suggested that the progress reports should, in general, follow the sequence set down in the "Scope of Work." Vide Article II, Schedule "A" to the AGREEMENT.

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
20	A.S. Mackintosh	Supervising Economist	28.9.69
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
	P.G. Adlard	Special Individual Consultant (Forests) from Commonwealth Forestry Institute, without charge	24.10.69
	M. Mansell Moulin	Special Individual Consultant (Hydrology) from Binnie & Partners, London	31.10.69

TRANSFERS: C.L. Carrier to Kluang

29.10.69

DEPARTURES: Nil

VISITORS: (Principals)

Mr. G. Smethurst, Binnie & Partners (M) - 13th and

Mr. F. Hardy, Binnie & Partners (London) 14th October, 1969

2. ADMINISTRATION & FINANCE

a) Housing: All staff are satisfactorily housed.

b) Offices: Quarters allocated by the State for offices were occupied in mid-September. A request was made for their conversion, re-wiring and airconditioning. The conversion has been completed; re-wiring and air-conditioning has not yet commenced. The provision of a hard standing for Project transport is under action.

c) Transport:

Project strength: 1 Ford Cortina
3 Ford Escorts
1 SWB Landrover
3 LWB Landrovers
1 BMC Minimoke

Considerable difficulty has been experienced in obtaining field vehicles. With the assistance of E.P.U., 4 Landrovers and 1 Minimoke were obtained from Kuala Lumpur but an additional 5 field vehicles (preferably Landrovers LWB) are urgently required. Application has been made to the Disposal Agency of the Far East Land Forces, Singapore, for priority release of up to 5 Landrovers. The latest information is that a number of vehicles will be available for inspection and purchase by the end of October.

Should the vehicles available be inadequate for field work, it will be necessary to consider most urgently alternative sources of supply for vehicles.

- d) Equipment: Every assistance has been received from Federal and State Departments in the supply of field and office equipment. In particular the Department of Orang Asli has made available on loan one base and one field radio receiver/transmitter and a base aerial and intake.
- e) Local administrative staff has been recruited through the Assistant State Secretary (Personnel) Johor.
- f) Funds: The first deposit of M\$248,920 was received effectively on 1.9.69.

The second deposit of M\$129,890 has not yet been received: due to finalization of the estimates to support the Agreement.

No Sterling deposits have been made to-date.

- g) Accounts: The first summarized Statement of Dollar Costs, as at 30th September 1969 supported by a detailed statement was submitted to E.P.U. on the due date.
- h) Agreement: The final draft of the Agreement has been cleared with the Government of Malaysia and has been submitted to the United Kingdom Government through the British High Commission for its comment prior to signature by the Government of Malaysia and Hunting Technical Services Limited.

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

The period to date has been spent on mobilization and familiarization inclusive of discussions in Kuala Lumpur, attendance at the Seminar on Land Capability and field trips with Head of the Soil Science Division during which profiles were studied in the Kluang, Kulai and Johor Baharu areas.

The soils team also made further familiarization studies in the Pontian, Kota Tinggi and Johor Baharu areas which facilitated standardization of soil survey procedures. Once transport and labour became available the team were able to embark on sample area surveys located to the east of Kota Tinggi. The area covered was 12,000 acres involving 373 auger bores, 26 profile pits and 123 soil samples were collected for laboratory analysis.

The soil profiles and problems connected with the classification were discussed with the Head of the Soil Science Division of the Ministry of Agriculture during his visit to the project at the end of October. As at 31st October ten miles of base line had been surveyed and thirty miles of soil survey rentis cut. Logistic problems have delayed progress to a certain extent. In particular field vehicles of British origin were not available until October 5th, and we have as yet been unable to establish a satisfactory radio link between base and the field parties. In addition some delay is being experienced on the base line survey. The resultant delay will be made up by changing the method of survey and by increasing the number of

surveyors although considerable difficulty is being experienced with recruitment.

Further field transport has now been promised by the Far East Land Forces and a new radio transmitter/receiver is on order through Government.

We were also lead to believe that the soil maps for the Johor Tengah region would be made available to us by the end of September at the latest. To date they have not yet been delivered and the deadline for production of the land capability map, essential for development planning has had to be phased back, hopefully, to mid December. Any further delay will affect the whole programme which is being operated to a very tight time schedule and limited budget.

2. AGRICULTURE AND LIVESTOCK

This study head also includes agricultural economics, the inland fisheries potential and irrigation.

The period covered has been concerned with finding sources of data, ascertaining availability and generally familiarising with the area. Work has started on the assessment of crops and livestock activities which will be suitable for the project area and close liaison has been maintained with other members of the team.

Several visits and tours have been undertaken. Among these are:-

Department of Geography - University of Singapore

State Agricultural Department

Lands Office

Poultry Breeding Research Station

Veterinary Department Ministry of Agriculture

Department of Agriculture, Kuala Lumpur

Rubber Research Institute

Farm Training School - Serdang

Federal Agricultural Research Station, Serdang

Institute of Food Technology - Serdang
Food & Vegetable Research Station - Tampoi
Tropical Fish Research Institute, Malacca
Group Settlement Scheme, Kahang

The major physical limiting factors on crop potential would appear to be constraints imposed by climate. While a general agricultural activity list will be produced on schedule in mid November, this will have to be constantly revised as more climatological data becomes available. Work on this is being held up in the absence of daily rainfall records from Meteorological Service Stations and D.I.D. recording stations. When this material does become available, together with an assessment of sunshine hours, analysis of this data can be started and the results used to modify the list of agricultural possibilities.

The need for an interpreter for field work is now apparent and steps are being taken to employ a suitable person.

3. FORESTRY

Initial discussions on inventory strategy and technique took place at the Commonwealth Forestry Institute, Oxford early in the year. The forest type overlays to the 1:63,360 topographical maps were subsequently prepared at Elstree and a provisional sampling plan was prepared again in consultation with the Commonwealth Forestry Institute for the Johor Tengah area. This sampling plan was revised during the latter part of October to include all forest areas including steep ground. Work on rentis cutting south east of Kluang has now commenced.

The photo interpretation and forest type overlays prepared at Elstree distinguished three broad types of forest

land:

1. Forest apparently stocked with mature timber.
2. Treated and regenerated forest.
3. Logged and destroyed forest.

Sampling is to be confined to 1. Within this category distinction was made between:

- a) Forests mainly below 500-800 feet on gentle undulating ground, probably suitable for agricultural development.
- b) Forests on steep ground above a), mainly inaccessible and presumed to be unsuitable for large scale exploitation.

At the request of the Director of Forestry, the sampling plan was extended to cover not only a) but also b). Within this broad classification the standard forest types used by the Malayan Forest Department, chiefly "Lowland Dipterocarp Forest" and "Hill Dipterocarp Forest," with their major subdivisions, will be recognized during the survey.

The provisional sampling plan prepared at Commonwealth Forestry Institute in September was modified to take account of:

- a) areas logged since the 1966 aerial photography,
- b) need to sample the hill areas.

The area may be considered as stratified into:

- (i) Lowland and
- (ii) Hill areas.

Estimates of exploitable volume will be given for (i) and (ii) separately and for (i) and (ii) together. Estimates for (ii) will be less precise than (i) due to the small number of sampling units that it is considered practical to lay out in such inaccessible country in the time available for the inventory. Sampling errors in (ii), however, are not expected greatly to exceed the 20% error limit for the volume of the major species groupings. Sampling errors of

estimates in (i) and (i) plus (ii) combined, for the same populations are expected to be considerably smaller. Sampling blocks average approximately 5 square miles in area. Two strips, each one chain in width, extending across each block and cutting across main topographical differences, were located at random within each block. The overall sampling percentage is ca. 1%.

The sampling plan overlay is being transferred to 1:63,360 topographical sheets 124 and 125, and also to 1:25,000 sheets for field layout and control and accurate assessment of block and strip areas.

Girth of all trees, classified into 17 utilisation categories, of 4 foot girth and above is to be measured throughout. Subject to amendment before sampling starts in mid November, a systematic sub-sample of girth down to 2 foot will be taken every tenth chain along each strip, the location of the first sample within chains 1 to 10 to be selected from a random number table. "Form class" or grade assessment will also be made on this sub-sample.

A scheme for collection of clear-bole height/girth data as a separate operation from the girth and grade sampling is now being prepared. Kepong staff are to carry out a defect study simultaneously with the inventory. Their results should provide corrections to the Commercial General Volume Tables that will ensure accurate estimates of volume for the Johor Tengah area.

A field recording book has been designed and printing should be completed by the second week of November. The field cards are to be photocopied (after checking for completeness and legibility by local staff) at Johor Baharu and sent to Commonwealth Forestry Institute for the direct conversion of the field data to paper tape. An Algol program (261A) has been written to sort the field data into a form

suitable as input data for program 3A which carries out the statistical analysis and prints means, standard errors and R.M.E.'s (reliable minimum estimate) for all populations assessed. Program 261A will also provide form class tables and species proportions within groups for summarising at Johor Baharu if necessary.

4. MINING

The economic geologist is not scheduled to arrive until after the monsoon. Meanwhile data collection has commenced and discussions will shortly be held with the Geological Survey and Department of Mines.

5. WATER RESOURCES

A preliminary assessment of the present water supply position in the State of Johor has been made and the position as we see it is set out in Inception Report. The collection of data relating to the discharges of the Sungei Johor is also in hand.

A map and desk study using the 1 in 63,360 and 1 in 25,000 maps of the Johor Tengah for possible dam sites for providing storage for river regulation for water supply, and/or flood control has been made. Three possible sites have been located. One on the Sungei Kabang, one on the Sungei Linggiu (a tributary of the Johor) and another on the Sungei Johor. The sites have yet to be visited.

Very little progress has been made with the hydrological study due to an unavoidable hold up in the arrival of the hydrologist and a delay with the release of basic data. The former has been overcome to a certain extent by bringing forward the visit of the hydrological specialist who arrived at the end of October. We have also been advised that D.I.D. are now in a position to provide the basic data requested for the study.

SECTION B

Data collection has commenced although the special consultants are not scheduled to arrive until January and July next year.

The heading "Institutional Infra-structures" appears under both Section "B" and "C" as an element of feed back is essential from the engineers to the project economists.

SECTION C

1. & 2. SOCIO-ECONOMIC ASPECTS & INSTITUTIONAL INFRA-STRUCTURE

After periods of familiarisation and review of previous studies the socio-economic group has begun preliminary work in the following areas:

- (i) methodology of socio-economic aspects;
- (ii) economics of timber exploitation and utilisation; (papers will be prepared on (i) and (ii) by mid November, for discussion with State and Federal officers).
- (iii) collection of data on agricultural production, trade and consumption of agricultural products; preliminary analysis of consumption trends as a basis for projections of demands and prices;
- (iv) preliminary study of the present population of the regions, administrative structure, alternative forms of rural development and settlement and their social implications;
- (v) preliminary study of national and State development objectives and policies, unemployment, existing institutions.

The closely connected work on institutional infrastructure and social aspects((iv) and (v) above) cannot proceed as quickly as required until (i) an experienced officer from the Development Administration Unit and (ii) a Malaysian sociologist are seconded to work with the group.

Provision is made in the Agreement Schedule D, Clause 6, for the DAU officer and an officer has now been nominated and reported for duty.

For the Malaysian sociologist, it was agreed that the Consultants should employ a sociologist from the University of Malaya, and their estimates include a provision for this

purpose under Item 3 (iii) - Professional, Technical and Field Malaysian staff. Following earlier correspondence with the University of Malaya, in early October Professor Mackintosh discussed the availability of a Malaysian sociologist (with the required local knowledge and field experience) with the Acting Vice Chancellor and the Deputy Dean of the Faculty of Economics and Business Administration. A formal proposal was made to the University to release a Social Anthropologist - Inche Abdul Maulud Yusoff - from the Department of Geography, Faculty of Arts, on a full time basis for as long as possible and as soon as possible. In addition it is hoped that a more senior social anthropologist - the Deputy Dean of the Faculty of Economics - will take some part in this project.

Given Inche Maulud's current teaching and examination commitments, it appears unlikely that he will be available for more than a very few hours a week before the end of February 1970. Thereafter, the possibility of his working full time on the project depends on the University's favourable decision to give him leave for the first two terms of the next academic year. It is hoped that the University of Malaya will shortly give a favourable decision to release Inche Maulud at least on a part time basis until February and on a full time basis for 9 months thereafter.

SUPPLEMENTARY NOTE

The Economic Planning Unit arranged for a reconnaissance flight of the study areas on the 24th September and the whole team then at post spent a most informative $2\frac{1}{2}$ hours over the region; the in flight commentary being given by Mr. W. Panton of the Economic Planning Unit. It is hoped that the Royal Malaysian Air Force will be able to repeat the flight in November in order that a closer study can be made of the forest and possible dam sites.

