[Appendix]

1. Member List of Survey Team

(1) Basic Design Study (Oct. 28~Dec. 1, 1989)

Mr. Takushi OBATA	Team Leader	Director General Yokohama Plant Protection Station Ministry of Agriculture, Forestry and Fisheries
Mr. Mitsunobu KURATA	Quarantine Cooperation	Officer International Cooperation Division Ministry of Agriculture, Forestry and Fisheries
Mr. Kenichi SHISHIDO	Project Coordinator	First Basic Design Study Division Grant Aid Plannig & Survey Department, JICA
Mr. Takanori TANAKA	Project Manager, Architect	Yamashita Sekkei Inc.
Mr. Jin KUBOTA	Architect	Yamashita Sekkei Inc.
Mr. Masayoshi MASUZAWA	Engineer	Yamashita Sekkei Inc.
Mr. Yukinori SHIMAMOTO	Equipment Planning	Yamashita Sekkei Inc. (Overseas Merchandise Inspection Co., Ltd.)
Mr. Toru INOUE	Plant Quarantine Service	Yamashita Sekkei Inc. (Japan Fumigation Technology Association)

(2) Supplement Basic Design Study (May 19~May 31, 1990)

Mr. Takanori TANAKA	Project Manager, Architect	Yamashita Sekkei Inc.
Mr. Masayoshi MASUZAWA	Engineer	Yamashita Sekkei Inc.

(3) Explanation of Draft Final Report (July 21~Aug. 1, 1990)

Mr. Toshio MORITA	Team Leader	Director Research Division, Yokohama Plant Protection Station, Ministry of Agriculture, Forestry and Fisheries
Mr. Takanori TANAKA	Project Manager Architect	Yamashita Sekkei Inc.
Mr. Yukinori SHIMAMOTO	Equipment Planning	Yamashita Sekkei Inc. (Overseas Merchandise Inspection Co., Ltd.)

2. Survey Schedule

(1) Basic Design Study (Oct. 28~Dec.1, 1989)

No.	Date	Schedule
1	Oct. 28 (Sat)	Survey of Plant Quarantine Station at Narita Airport Lv. Tokyo (Messrs. Obata, Kurata, Shishido, Tanaka, Kubota, Masuzawa, Shimamoto, Inoue) Ar. Bangkok
2	29 (Sun)	Lv. Bangkok Ar. Colombo
3	30 (Mon)	Meeting at Japanese Embassy and JICA office Cortesy call on Dept. of External Resources and MOAFC
4	31 (Tue)	Survey of proposed site and plant quarantine station at Katunayake Airport Lv. Colombo Ar. Kandy Meeting at DOA
5	Nov. 1 (Wed)	Meeting at CARI Survey of PGRC and CARI
6	2 (Thu)	Meeting at CARI Lv. Kandy Ar. Colombo (Messrs. Kubota, Masuzawa) Meeting at Survey Dept.
7	3 (Fri)	Meeting at CARI Meeting at MOAFC, Irrigation Dept., Survey Dept. and Airport & Aviation Services Ltd. Lv. Kandy Ar. Colombo (Messrs. Tanaka, Shimamoto, Inoue)
8	4 (Sat)	Survey of construction condition Arrangement of survey data
9	5 (Sun)	Arrangement of survey data Lv. Kandy Ar. Colombo (Messrs. Obata, Shishido, Kurata)
10	6 (Mon)	Survey of plant quarantine station at Colombo Seaport Meeting at JICA office Meeting at Irrigation Dept. and Airport & Aviation Services Ltd. Signing of Minutes of Discussions at MOAFC
11	7 (Tue)	Meeting at Dept. of Civil Aviation and CEB Team meeting (discussion on proposed site)
12	8 (Wed)	Lv. Colombo Ar. Bangkok (Messrs. Obata, Shishido, Kurata) Meeting at MOAFC Report to Japanese Embassy and JICA office Survey of construction condition

No.	Date	Schedule
13	Nov. 9 (Thu)	Lv. Colombo Ar. Kandy (Messrs. Tanaka, Shimamoto, Inoue) Meeting at CARI Report on proposed site to Dept. of External Resources Survey of construction condition
14	10 (Fri)	Meeting at CARI Survey of UPFA Survey of construction condition
15	11 (Sat)	Meeting at CARI Arrangement of survey data
16	12 (Sun)	Arrangement of survey data
17	13 (Mon)	Meeting at CARI Meeting at JICA office and Japanese Embassy Survey on foreign exchange rate at Central Bank of Sri Lanka Meeting at Dept. of Meteology
18	14 (Tue)	Meeting at CARI Lv. Kandy Ar. Colombo (Messrs. Tanaka, Shimamoto, Inoue) Survey of construction condition
19	15 (Wed)	Report to Japanese Embassy and JICA office Meeting at MOAFC Survey of construction condition Team meeting
20	16 (Thu)	Meeting at Dept. of Civil Aviation Meeting at JICA office Meeting at CEB N.W. Divisional office and Dept. of Telecommunication Survey of construction condition
21	17 (Fri)	Survey of similar grant aid project Survey of construction condition Meeting at CEB N.W. Divisional office and survey of power supply condition at proposed site
22	18 (Sat)	Meeting at Lanka Electricity Company Ltd. Survey of proposed site Team Meeting
23	19 (Sun)	Preparation of report on proposed site Team Meeting
24	20 (Mon)	Meeting at Dept. of Civil Aviation Lv. Colombo Ar. Bangkok (Messrs. Kubota, Masuzawa, Shimamoto, Inoue) Lv. Bangkok (Mr. Kubota)

No.	Date	Schedule
25	Nov. 21 (Tue)	Survey of similar grant aid project Survey of construction condition Ar. Tokyo (Mr. Kubota) Lv. Bangkok Ar. Tokyo (Messrs. Masuzawa, Shimamoto, Inoue)
26	22 (Wed)	Survey of construction condition Preparation of report on proposed site
27	23 (Thu)	Meeting at Lanka Electricity Company Ltd. Survey of construction condition
28	24 (Fri)	Meeting at MOAFC Survey of construction condition
29	25 (Sat)	Survey of construction condition Preparation of report
30	26 (Sun)	Arrangement of survey data
31	27 (Mon)	Meeting at MOAFC (Submission of report on proposed site) Meeting at Japanese Embassy and JICA office
32	28 (Tue)	Meeting with Chairman of Airport & Aviation Services Ltd.
33	29 (Wed)	Meeting with Minister of MOAFC Meeting at Japanese Embassy Survey of construction condition
34	30 (Thu)	Lv. Colombo (Mr. Tanaka) Ar. Bangkok
35	Dec. 1 (Fri)	Lv. Bangkok (Mr. Tanaka) Ar. Tokyo

MOAFC : Ministry of Agricultural Development and Research
DOA : Department of Agriculture
CARI : Central Agricultural Research Institute
CEB : Ceylon Electricity Board

(2) Supplement Basic Design Study (May 19~May 31, 1990)

No.	Date	Schedule
1	May 19 (Sat)	Lv. Tokyo (Messrs. Tanaka, Masuzawa) Ar. Bangkok
2	20 (Sun)	Lv. Bangkok Ar. Colombo
3	21 (Mon)	Meeting at Japanese Embassy and JICA office Courtesy call on MOADR, Dept. of External Resources and Airport & Aviation Services Ltd.
4	22 (Tue)	Survey of proposed site and infrastructure Lv. Colombo Ar. Kandy (Mr. Tanaka) Meeting at CARI
5	23 (Wed)	Meeting at CARI Lv. Kandy Ar. Colombo (Mr. Tanaka) Meeting at Dept. of Telecommunication of Negombo Branch Meeting at Airport & Aviation Services Ltd. Meeting at CEB N.W. Divisional office and survey of power supply condition around proposed site
6	24 (Thu)	Meeting at CEB N.W. Divisional office Survey of construction condition
7	25 (Fri)	Meeting at Dept. of Telecommunication (Metro & Regen 2) Meeting at Water Resources Board and Central Environmental Authority Survey of construction condition
8	26 (Sat)	Arrangement of survey data Preparation of survey report
9	27 (Sun)	Preparation of survey report
10	28 (Mon)	Meeting at MOADR Meeting at Dept. of Telecommunication (Metro & Regien 2) Survey of foreign exchange rate at Central Bank of Sri Lanka Survey of construction condition
11	29 (Tue)	Survey of proposed site Meeting at Japanese Embassy and JICA office
12	30 (Wed)	Lv. Colombo (Messrs. Tanaka, Masuzawa) Ar. Bangkok
13	31 (Thu)	Lv. Bangkok (Messrs. Tanaka, Masuzawa) Ar. Tokyo

(3) Explanation of Draft Final Report (July 21~Aug. 1, 1990)

No.	Date	Schedule
1	Jul 21 (Sat)	Lv. Tokyo (Messrs. Morita, Tanaka, Shimamoto) Ar. Bangkok
2	22 (Sun)	Lv. Bangkok Ar. Colombo Survey of proposed construction site
3	23 (Mon)	Meeting at Japanese Embassy and JICA office Courtesy call on MOADR, Dept. of External Resources and Airport & Aviation Services Ltd.
4	24 (Tue)	Lv. Colombo Ar. Kandy Meeting at CARI
5	25 (Wed)	Meeting at CARI, Survey of PGRC
6	26 (Thu)	Meeting at DOA, Meeting at the Plant Quarantine Division
7	27 (Fri)	Lv. Kandy Ar. Colombo Meeting at Airport & Aviation Services Ltd.
8	28 (Sat)	Survey of construction conditions Team meeting
9	29 (Sun)	Arrangement of survey data Team meeting
10	30 (Mon)	Meeting at MOADR Meeting at JICA office Signing of Minutes of Discussions at MOADR
11	31 (Tue)	Report to Japanese Embassy and JICA office Lv. Colombo (Messrs. Morita, Tanaka, Shimamoto)
12	Aug. 1 (Wed)	Ar. Tokyo

3. Member List of Concerning Party in Sri Lanka

Ministry of Agricultural, Food & Co-operatives

Mr. Lalith Atbulathmudali	ex-Minister
Mr. M. D. D. Pieris	ex-Secretary

Ministry of Agricultural Development and Research

Mr. Dixon Nilaweera	Secretary
Mr. N. Vanadeva	Secretary to the State Minister
Mr. D. Wijayawardena	Director of Agriculture Development
Mr. C. H. DE A. Jayasinghe	Dy. Director
Mr. B. Derera	Dy. Director

Department of Agriculture

Dr. S. D. I. E. Gunawardene	ex-Director
Mr. M. Weerasinghe	Director
Mr. A. M. Abeyratne	Chief Accountant
Mr. H. B. Senerath	Asst. Director (Plant Protection)

Central Agricultural Research Institute

Dr. S. Amarasiri	Dy. Director
Dr. M. H. J. P. Fernando	Dy. Director
Mr. W. D. Albert	Dy. Director
Dr. P. Shivanahan	Chief Plant Quarantine Officer
Mr. R. S. U. de Silva	Research Officer

Department of External Resources

Mr. S. Weerapana	Asst. Director

Airport & Aviation Services Ltd.

Mr. D. D. G. P. Ladduwahetty	Chairman
Mr. D. Dissonayake	Executive Director
Mr. P. U. Jayasinghe	Executive Commercial & Propertin
Mr. H. T. DE Z. Amarasekera	Senior Air Traffic Controller

Mr. M. R. Peries	Manager Maintenance
Mr. K. V. P. Fernanzo	Chief Engineer

Department of Civil Aviation

Mr. M. L. U. DE S. Malalgoda	Director of Civil Aviation

Survey Department

Mr. S. T. Herat	Surveyor General
Mr. E. Perera	Addl. Surveyor General
Mr. S. Kalutanhi	Superintendent of Surveyor

Irrigation Department

Mr. K. W. Perera	Dy. Director
Mr. S. H. C. DE Silva	Consultant

Ceylon Electricity Board

Mr. N. Wijemanne	Addl. General Manager (Head Office)
Mr. P. P. D. Rodrigo	Engineer (North Western Div. Office)

Department of Telecommunication

Mr. R. Dissanayake	Engineer External Plant Projects
Mr. S. Jayasinghe	Telecommunication Engineer
Mr. R. D. Somasiri	Deputy Director (Metro & Regien 2)
Mr. T. D. G. Liyanage	Regional Telecommunication Engineer Negombo

Central Environmental Authority

Mr. K. G. D. Bandaratilaka	Director of Environmental Protection

Water Resources Board

Mr. A. D. Millevitanatcay	Asst. General Manager of Operations

Department of Meteorology

Dr. A. W. Mohottala	Director

Lanka Electricity Company (Private) Ltd.

Mr. N. DE Livera	Branch Manager (Kelaniya Branch)

Embassy of Japan

Mr. Toshihisa Takata	Counsellor
Mr. Shin Murakami	First Secreatary
Dr. Ei Kubota	Second Secretary

JICA Sri Lanka Office

Mr. Hideo Yasuki	Resident Representative
Mr. Hiroshi Niino	Asst. Resident Representative
Mr. Toshiro Yamashita	Asst. Resident Representative

4. Minutes of Discussion

(1) Basic Design Study

MINUTES OF DISCUSSIONS

ON

THE PROJECT FOR ESTABLISHMENT OF THE NATIONAL PLANT QUARANTINE SERVICES

IN

THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

In response to the request of the Government of the Democratic Socialist Republic of Sri Lanka, the Government of Japan decided to conduct a basic design study on the Project for Establishment of the National Plant Quarantine Services (hereinafter referred to as "the Project"), and the Japan International Cooperation Agency (hereinafter referred to as "JICA") sent to Sri Lanka a study team headed by Mr. Takushi OBATA, Director General of Yokohama Plant Protection Station, Ministry of Agriculture, Forestry and Fisheries from October 29 to November 30,1989.

The team had a series of discussions with the officials of the Government of Sri Lanka, concerned with the Project, and conducted a field survey.

As a result of the study, both parties have agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, be examined towards the realisation of the Project, subject to the approval by the authorities concerned.

Mr. Takushi OBATA
Leader
Basic Design Study Team
Japan International
Cooperation Agency (JICA)

M.D.D.Pieris, Secretary,
Ministry of Agriculture, Food and
Co-operatives, Sri Lanka.

November 6, 1989
Colombo, SRI LANKA.

ATTACHMENT

1. The Project Title

The Project for Establishment of the National Plant Quarantine Services

2. The Objectives of the Project

The Objectives of the Project are to construct the National Plant Quarantine Services and to provide necessary equipment for the Improvement of Plant Quarantine Service.

3. The Responsible Ministry and Implementation Agency for the Project

3.1 The responsible ministry is the Ministry of Agriculture, Food and Co-operatives.

3.2 The implementation agency is the Department of Agriculture.

4. The Project Site

The project site is located at Katunayake (near the International Airport), and is shown in Annex 1.

5. The Major Items Requested for the Project

The major items requested for the Project are listed in Annex 2

6. Grant Aid Programme

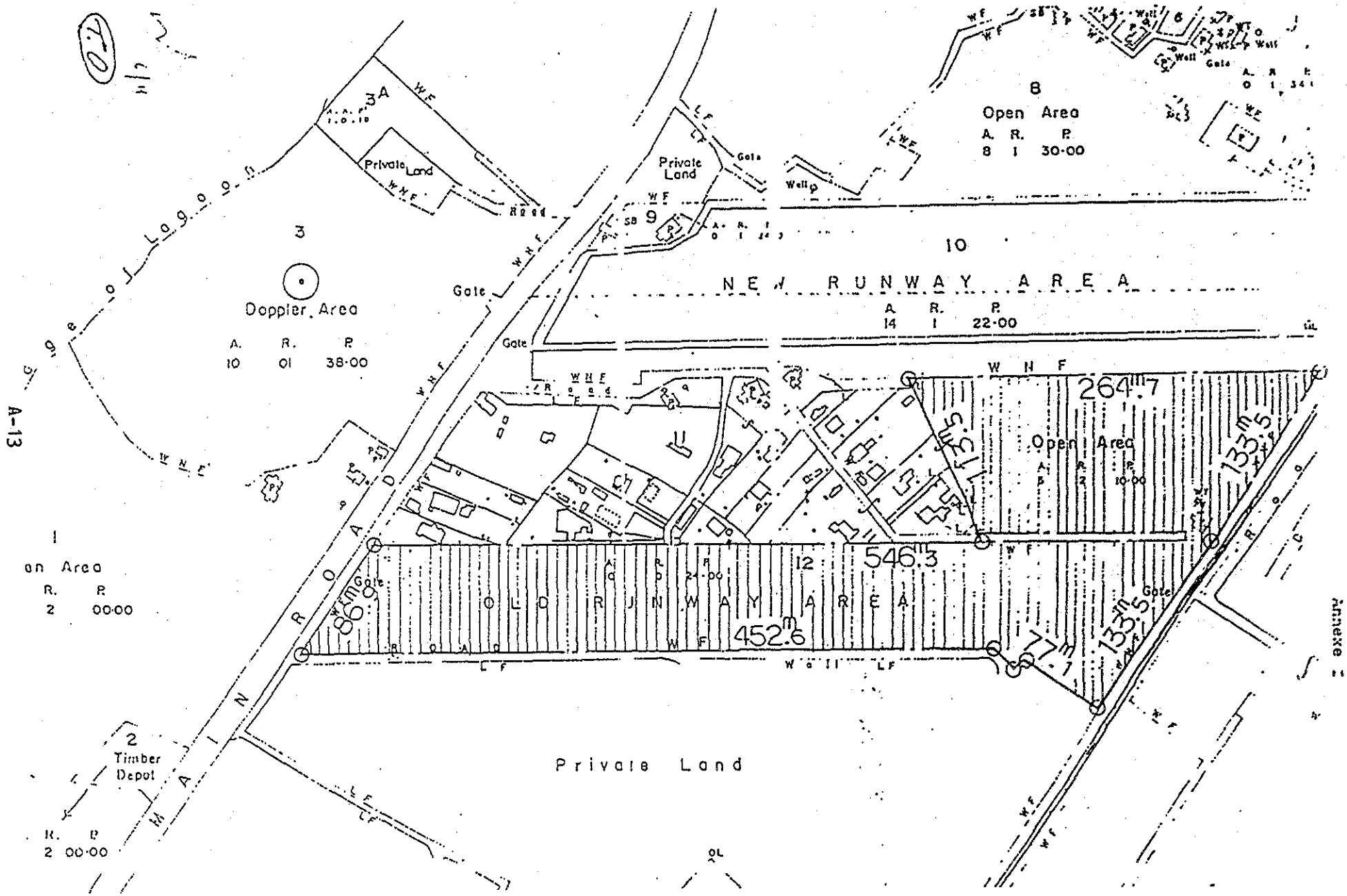
6.1 The Sri Lankan side has understood the system of Japan's Grant Aid Programme and the principle for use of Japanese consulting firm(s) and contractor(s) for the implementation of the Project.

6.2 The Study Team will convey to the Government of Japan the desire of the Government of Sri Lanka that the former takes necessary measures to co-operate in implementing the Project and provides necessary facilities and equipment under the Japan's Grant Aid Programme.

6.3 The Government of Sri Lanka will take necessary measures as listed in Annex 3 on condition that the Grant Aid by the Government of Japan would be extended to the Project.

7. Technical Co-operation

The Sri Lankan side stressed the need for the Technical Co-operation from the Government of Japan for the Improvement of Plant Quarantine Services.


3A
Private Land
W F
3
Doppler Area
A. R. P.
10 01 38·00
Lagoon
Gate
Private Land
9
8
Open Area
A. R. P.
8 1 30·00
Well
10
NEW RUNWAY AREA
A. R. P.
14 1 22·00
W N F
264m.7
Open Area
A. R. P.
2 10·00
133m.5
133m.5
546m.3
12
OLD RUNWAY AREA
452m.6
86m.9
27m.1
ROAD
MAIN
A-13
1
on Area
R. P.
2 00·00
2
Timber Depot
R. P.
2 00·00
Private Land
Annexe

ANNEX 2

THE MAJOR ITEMS REQUESTED FOR THE PROJECT

A. Building

1. Testing Rooms for following fields;
   1) Bacteriology and Mycology
   2) Virology
   3) Entomology
   4) Nematology
   5) Treatment
   6) Tissue Culture
2. Inspection Room
3. Administration Office
4. Director's Room
5. Meeting Rooms
6. Staff Rooms
7. Others

B. Supporting Facilities

1. Glass House
2. Screen House
3. Fumigation House
4. Isolated Fields
5. Incinerator
6. Garage
7. Others

C. Equipment

1. Testing Equipment
2. Equipment for seaport and airport
3. Farm Machinery
4. Vehicles
5. Others

ANNEX 3

UNDERTAKINGS BY THE GOVERNMENT OF SRI LANKA

1. To secure the site for the project.

2. To clear, level and reclaim the site as needed prior to the commencement of the construction.

3. To construct the access roads to the site and to supply temporary power, water and telephone service necessary for the construction prior to the commencement of the construction.

4. To undertake incidental external works such as planting, fencing and making gates in and around the site.

5. To connect distributing line of electricity tc the site.

6. To connect city water distribution main to the site.

7. To connect the city drainage main (for storm, sewer and others) to the site.

8. To connect the telephone trunk line to the main distribution frame/panel to be equipped inside the building.

9. To provide general furniture for daily activities

10. To obtain the building permit prior to the commencement of the construction

11. To bear commissions to the Japanese foreign exchange bank for the banking services based on the Banking Arrangement.

12. To ensure the necessary budget and personnel for the proper and effective operation and maintenance of the facilities and the equipment provided under the Grant Aid.

13. To ensure prompt unloading, tax exemption, custom clearance at the port of disembarkation in Sri Lanka and prompt internal transportation of the products provided under the Grant Aid.

14. To exempt Japanese nationals involved in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Sri Lanka with respect to the supply of the products and the services under the verified contracts.

15. To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contracts such facilities as may be necessary for their entry into Sri Lanka and stay therein for the execution of the Project."

16. To maintain and use properly and effectively the facilities constructed and the equipment provided under the Grant Aid.

17. To bear all the expenses, other than those to be borne by the Grant necessary for construction of the facilities as well as for the transportation and installation of the equipment.

(2) Letter on Construction Site (Basic Design Study)

7 November 1989

Mr M D D Pieris
Secretary
Ministry of Agriculture, Food & Co-operatives
Sri Lanka

Dear Mr Pieris

Although the minutes of discussions on the project for the establishment of the National Plant Quarantine Services was exchanged on 6 November 1989, it has been acknowledged by an authority concerned of the Ministry of Defense that any building cannot be constructed in the proposed site because of the "Air Navigation Act".

I, as the leader of Basic Design Study Team, hereby recommend that the above information be confirmed by you and, if necessary, another construction site be secured near the Katunayake Airport as soon as possible.

If we are not informed of the location of the new site as an alternative by 19 November, the remaining five members of the Team will suspend the field survey and return to Japan on 20 November.

Your quick action toward the solution of this issue would be highly appreciated.

Thank you very much.

Yours faithfully

TAKUSHI OBATA
Leader
Basic Design Study Team
Japan International Co-operation Agency

cc: 1. Mr. N. Vamadeva,
Secretary to the State Minister for Agriculture

2. Mr. S. Weerapana.
Asst.Director, Department of External Resources.

3. Dr.S.D.I.E. Gunawardene.
Director, Department of Agriculture

4. Dr. M. H. S. P. Fernando,
Deputy Director, CARI

5. Embassy of Japan

6. JICA Sri Lanka Office.

(3) Explanation of Draft Final Report

MINUTES OF DISCUSSIONS
ON
THE DRAFT FINAL REPORT OF THE BASIC DESIGN STUDY
ON
THE PROJECT FOR ESTABLISHMENT OF THE NATIONAL PLANT QUARANTINE SERVICES
IN
THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

In response to the request by the Government of Sri Lanka, the Government of Japan decided to conduct a basic design study on the Project for Establishment of the National Plant Quarantine Services (hereinafter referred to as "the Project"), and the Japan International Cooperation Agency (JICA) sent the Basic Design Study Team to Sri Lanka from October 29 to November 30, 1989.

As a result of the study, JICA prepared a Draft Final Report and dispatched a team headed by Mr. Toshio MORITA, Director of the Research Division, Yokohama Plant Protection Station, Ministry of Agriculture, Forestry and Fisheries, to explain and discuss it with the relevant officials of the Government of Sri Lanka from July 21 to August 1, 1990.

Both parties had a series of discussions on the Draft Final Report and have agreed to recommend to their respective Governments that the major points of understandings reached between them, attached herewith, should be examined towards the realizaton of the Project.

Colombo, July 30th, 1990

T. Morita

Mr. Toshio MORITA
Team Leader
Draft Final Report Team
Japan International Cooperation Agency

Dixon Nilaweera
Secretary
Ministry of Agricultural Development and Research
Sri Lanka

MAJOR POINTS OF UNDERSTANDING

1. The Sri Lankan side principally agreed to the basic design proposed in the Draft Final Report with minor and appropriate alterations, as per ANNEXURE to be incorporated in the Final Report.

2. The Final Report (10 copies in English) will be submitted to the Democratic Socialist Republic of Sri Lanka in August 1990.

3. The Sri Lankan side understood the system of Japan's Grant Aid Program and confirmed that the Government of Sri Lanka will take necessary measures, as agreed in the Minutes of Discussion dated November 6, 1989, upon execution of the grant aid for the Project by the Government of Japan.

4. Both parties recognized that, as mentioned in Chapter 5-(4) on Recommendations, personnel assignment and budgetary appropriation are both vitally important for the successful implementation of the Project.

5. The Sri Lankan side reiteratedly requested the Technical Cooperation with the following contents and the Study Team agreed to convey the request to the Government of Japan.

    1) The project-type technical cooperation be extended in all the technical fields which the Precise Inspection Division is consisted of.

    2) The training in Japan for the counterparts be also provided before the project-type technical cooperation commenced.

maj/2

ANNEXURE

ALTERATIONS

BUILDINGS

1. The access roads to the Administration Block and to the Plant Quarantine/Treatment Block shall be covered by concrete pavement.

2. The isolated field shall be enclosed with net fences for the protection of plants.

3. Stand-by tube well pump shall be considered.

4. The facility shall be designed so as to reduce the power consumption to the minimum.

EQUIPMENT

1) Following equipment shall be added.

   1. White boards for the Inspection Rooms and other rooms.

   2. Small safe box for the Administration Office and for the Seaport Plant Quarantine Station

   3. Typewriters (Sinhala, Tamil and English)

   4. Paper cutter for the Printing Room

   5. Fumiscopes (TOUKA-TYPE)

2. Personal Computer shall have a system with more than 2 terminal stations for input data.

alt/2

5. Boring Data

NATIONAL BUILDING RESEARCH ORGANISATION
GEOTECHNICAL ENGINEERING DIVISION

REPORT ON
SUBSOIL INVESTIGATION FOR PROPOSED BUILDINGS AT
COLOMBO AIRPORT KATUNAYAKE

FOR AIRPORT AND AVIATION SERVICES
(SRI LANKA) LIMITED

JULY 1990

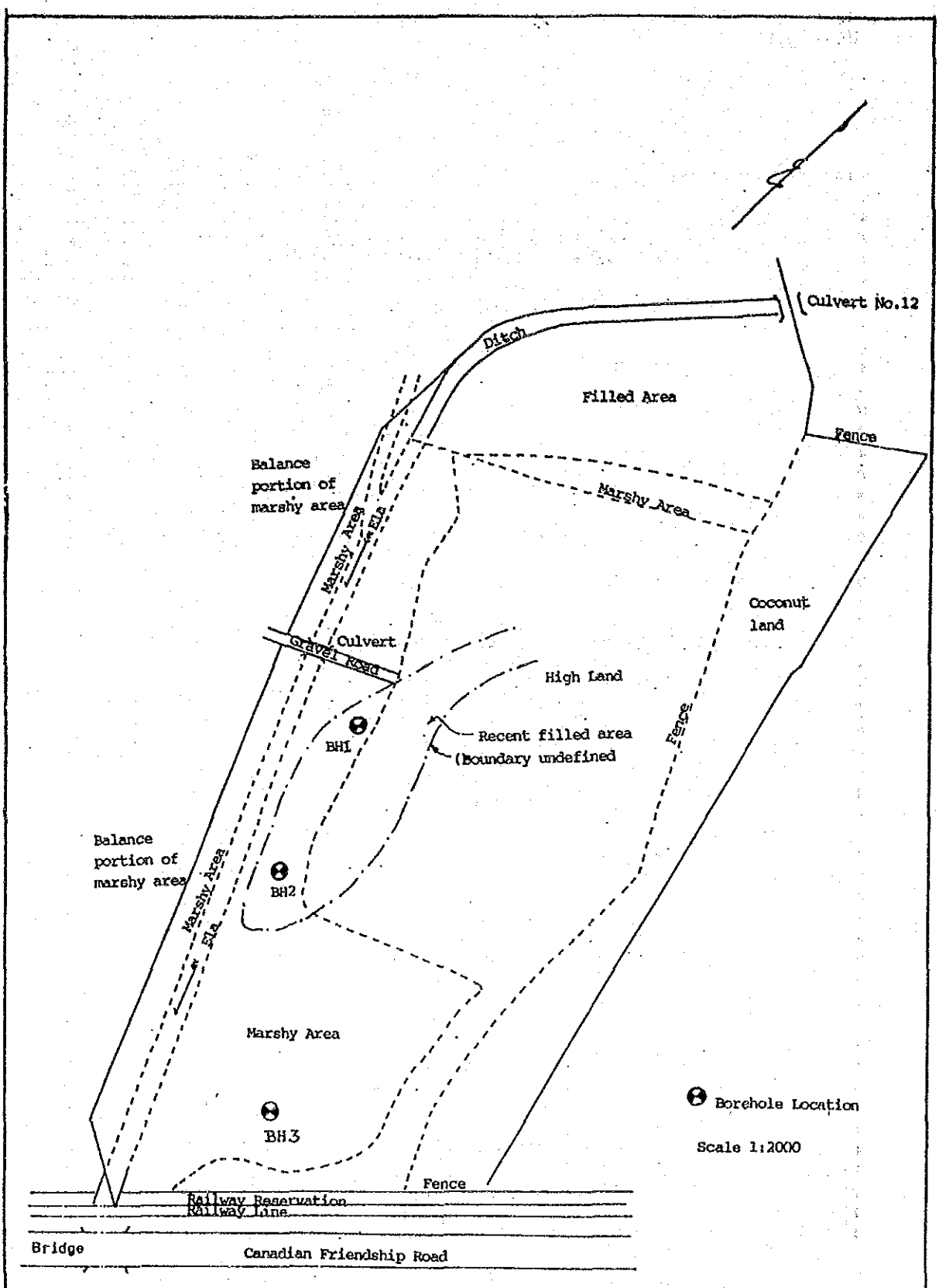


FIG. 1 SITE PLAN
PROPOSED BUILDINGS AT COLOMBO AIRPORT, KATUNAYAKE

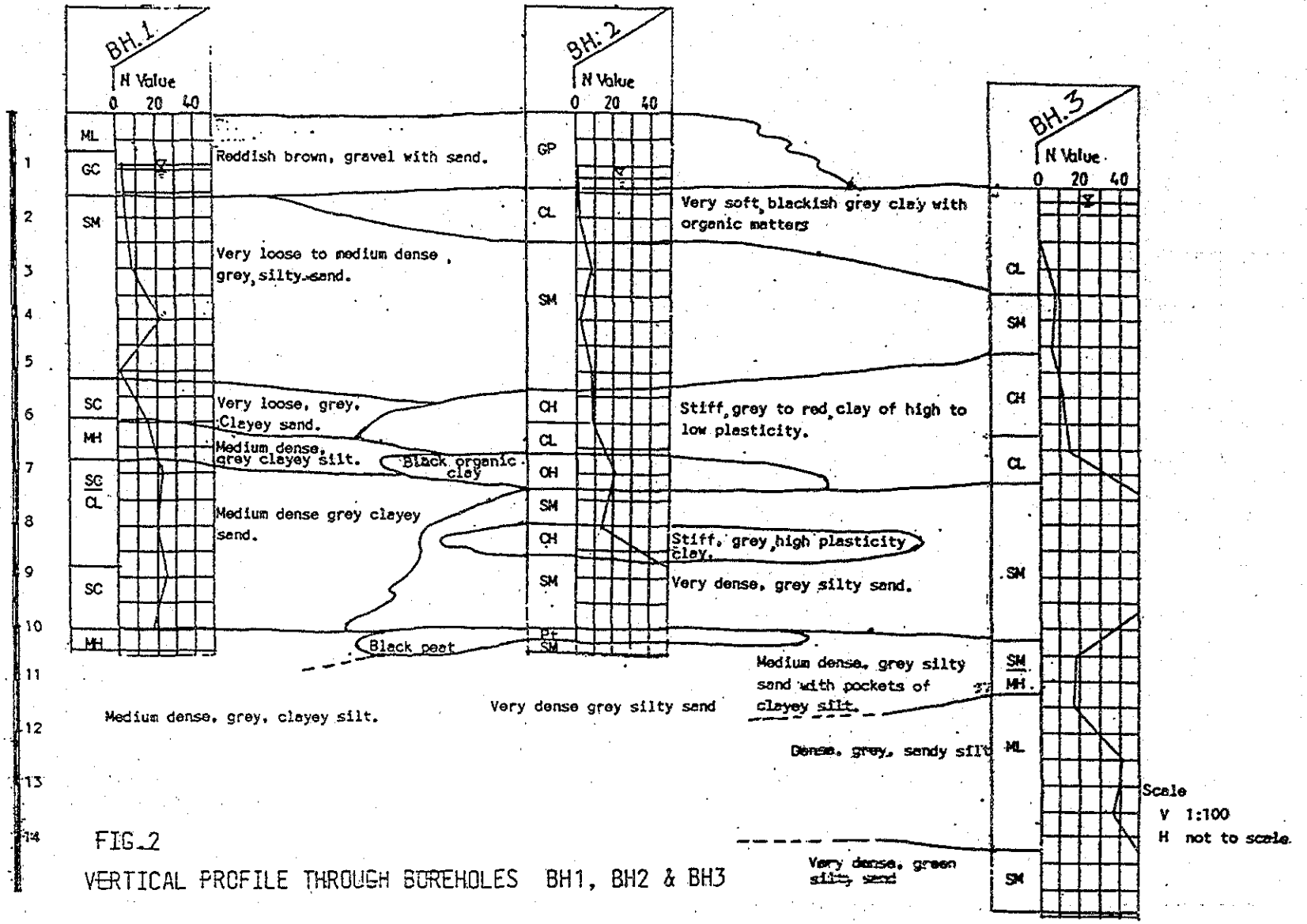


FIG.2

VERTICAL PROFILE THROUGH BOREHOLES BH1, BH2 & BH3

GEOTECHNICAL ENGINEERING DIVISION

NATIONAL BUILDING RESEARCH ORGANISATION

TABLE 1 SUMMARY OF LABORATORY TEST RESULTS

Name of Project : Soil Investigation for the Proposed Buildings at Colombo Airport, Katunayake

Bore hole No.	Depth of Sample Collection (Meters)	Soil Classification	Natural Moisture Content	W_l %	W_p %	PI	Grain Size Distribution						Unconfined compression Test	Consolidation Test.		Sp. Gravity	Bulk Density (gms/cc)	Dry Density (gms/cc)	Special Test.	Remarks.
							Gravel %	Sand			Silt & Clay %	Clay %	qu (kg/cm^2)	Cc	Cv					
								Coarse. %	Med. %	Fine. %										
BH 1	1.00 1.55	GC	28				53	9	9	4	25									
BH 1	3.00 3.45	SM	20				2	12	68	13	5									
BH 1	8.00 8.45	SC CL	12	27	12	15	1	17	32	21	29	22								
BH 2	6.30 6.60	CI	47	51	26	25	-	-	10	13	77	48								
BH 2	6.50 6.90	OH	51										2.71				1.60	1.06		
BH 3	1.00 1.45	CL	32				-	3	34	17	46	40								
BH 3	5.00 5.45	CL	29	42	24	18														

Signature of Officer Carrying Out Test. Deepthika Heath 26/01/21

Signature of the Officer incharge

LOG OF BOREHOLE

Annexe 1

NAME OF PROJECT : Soil Investigation for Proposed Buildings at Colombo Airport, Katunayake		Bore Hole	BH 3
		ground elevation	
Location : Katunayake		depth of bore hole	13.85 m
boring method : Wash boring	commenced on : 01.06.1990	Water struck at GL	- m
drilling mud : Bentonite	completed on : 04.06.1990	GWL on completion of bore hole	GL 0.25 m

Depth below GL m		Classification & Description of Soil	Type and Depth of Sampling m		depth tested GL m	STANDARD PENETRATION TEST DATA number of blows per 15cm 1	2	3	N-value for 30cm penetration
	CL	Blackish grey, sandy clay with un-decomposed roots and vegetation.	DS	0.00	Auger sample				
0.75									
1.00	CL	Very soft, blackish grey, clay with organic matters and sand.	DS	1.00 - 1.45	1.00	1	0	0	0
2.00	SM	Loose, whitish grey, coarse to, fine grained silty sand.	DS	2.00 - 2.45	2.00	5	4	5	9
2.70	SM	Loose, blackish grey, coarse to fine grained silty sand.							
3.00			DS	3.00 - 3.45	3.00	6	4	3	7
3.20	CH	Medium stiff, brownish red mottled grey, high plasticity clay.							
4.00	CH	Stiff, pink mottled grey, high plasticity clay with pockets of clayey silt.	DS	4.00 - 4.45	4.00	2	5	6	11
4.75									
5.00	CL	Very stiff, yellow mottled red, silty clay with partially weathered gravel.	DS	5.00 - 5.45	5.00	4	7	9	16
5.70									
6.00		Sample not recovered.		6.00 - 6.25	6.00	19	>53		
6.75									
7.00	SM	Very dense, grey, medium to fine grained silty sand.	DS	7.00 - 7.30	7.00	11	34	>20/5	
8.00			DS	8.00 - 8.25	8.00	11	>50		
8.75									
9.00	SM MH	Medium dense, whitish grey, medium to fine grained silty sand with plastic fines and pockets of clayey silt.	DS	9.00 - 9.45	9.00	6	7	12	19
9.70									

LOGGED BY : Deepthika Herath.

GEOTECHNICAL ENGINEERING DIVISION
NATIONAL BUILDING RESEARCH ORGANISATION

LOG OF BOREHOLE

Annexe 1

NAME OF PROJECT : Soil Investigation for Proposed Buildings at Colombo Airport, Katunayake		Bore Hole	BH3 Contd.
		ground elevation	
Location : Katunayake		depth of bore hole	13.85 m
boring method : Wash boring	commenced on : 01.06.1990	Water struck at GL	- m
drilling mud : Bentonite	completed on : 04.06.1990	GWL on completion of bore hole	GL -0.25 m

Depth below GL m		Classification & Description of Soil	Type and Depth of Sampling m		depth tested GL m	STANDARD PENETRATION TEST DATA number of blows per 15cm 1	2	3	N-value for 30cm	graphical presentation
10.00	ML	Medium dense, greenish grey, to dark grey with small spots of brownish red, clayey silt with traces of sand and mica. (weathered rock	DS	10.00 - 10.45	10.00	4	7	11	18	
11.00	ML	Dense, greenish grey to grey, sandy silt with mica. (Weathered rock)	DS	11.00 - 11.45	11.00	6	16	25	41	
12.00			DS	12.00 - 12.45	12.00	8	15	22	37	
12.70		Very dense, dark greyish green,								
13.00	SM	medium to fine grained silty sand. (weathered rock)	DS	13.00 - 13.32	13.00	19	36	>20		
13.85			DS	13.80 - 13.90	13.90	>70				
		Borehole terminated at 13.90 m depth.								
						Refusal to Penetration				

LOGGED BY : Deepthila Heath

GEOTECHNICAL ENGINEERING DIVISION
NATIONAL BUILDING RESEARCH ORGANISATION

JICA