



NATIONAL BUILDING RESEARCH ORGANISATION

99/1, JAWATTA ROAD, COLOMBO - 5, SRI LANKA. TELEPHONE: 588946

OUR REF: 30/90437



YOUR REF :

5th June, 1991

Director-General of Health Services
Ministry of Health & Women's Affairs
Inland Revenue Building
Sir Chittampalam A. Gardiner Mawatha
Colombo 2.

Dear Sir,

SOIL INVESTIGATION AT THE DIVISION OF BIOMEDICAL ENGINEERING SERVICES

Field work in connection with the above project is now completed. Laboratory testing and analysis of test data are currently in progress. In the meantime, we are pleased to submit preliminary recommendations on foundation design for your initial planning.

A total of 5 boreholes were advanced at the site at locations shown in Fig.1. Of these, 3 boreholes (BH1, BH2 and BH3) were advanced in the area allocated for three storeyed building while the remaining two boreholes were done in the area allocated for the two storeyed building. These boreholes were terminated after encountering a hard stratum of weathered rock found at depths varying from 16.65m to 23.0m depths.

Borehole investigation reveals that the subsoils at this site are predominantly sandy down to termination depths. However, layers of compressible peaty soils and clays are generally found at depths varying from 6.5m to 11.45m. SPT N-values of the sand layers are considerably high and in the range of 15 to values exceeding 50. SPT N-values of the peaty soils and clay layers are considerably low and in the range of 0-9. Structural details of the proposed buildings were not available at the time of preparation of this preliminary recommendations. Therefore, for the purpose of analysis, it is assumed that the columns are spaced at 5m intervals and accordingly the maximum column loads for three storeyed and two storeyed structures are in the order of 1200 kN and 700 kN respectively.



MINISTRY OF POLICY PLANNING AND IMPLEMENTATION

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OUR REF :



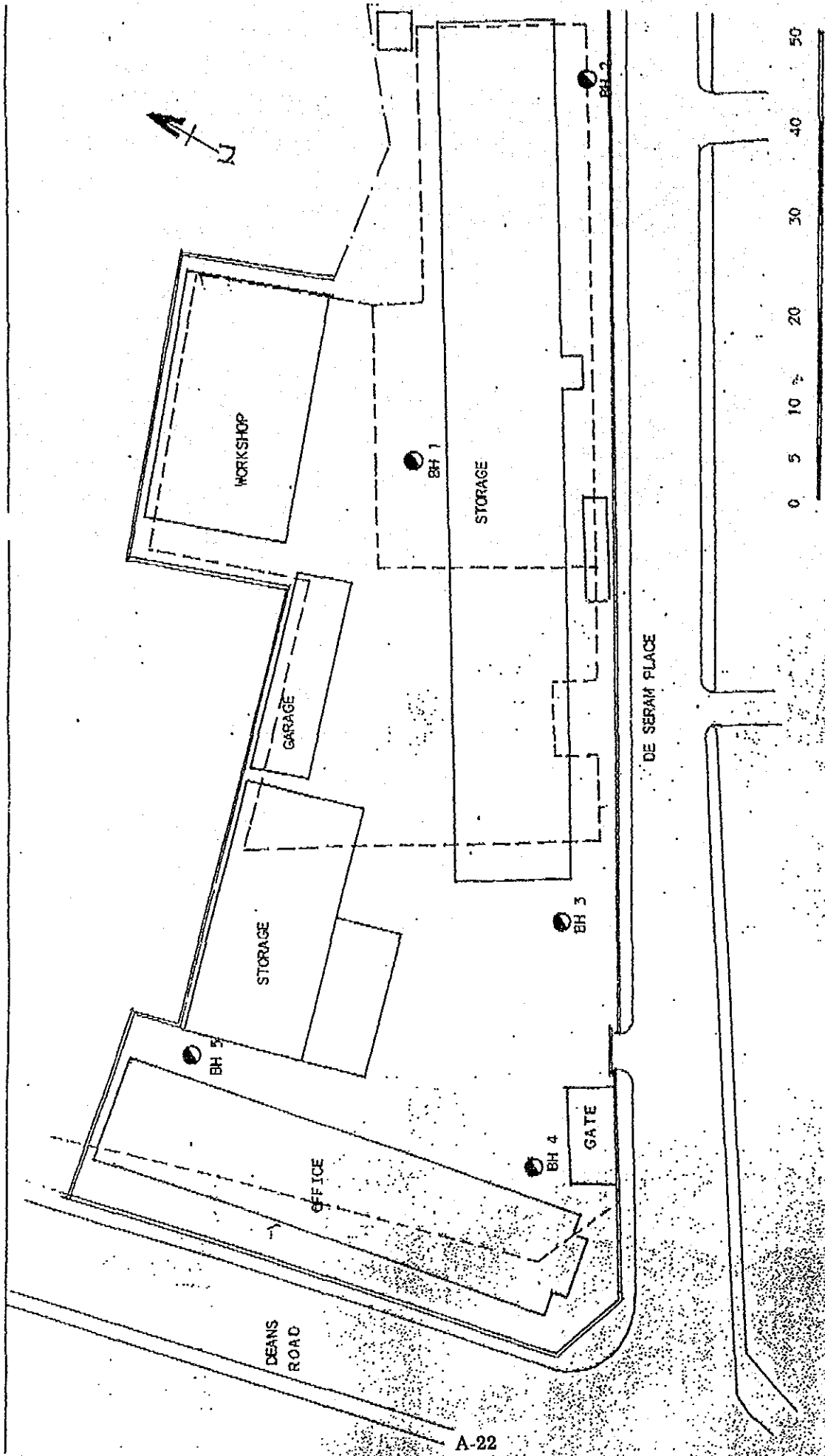
YOUR REF :

Considering the type of structures proposed and the subsoil conditions at the site, it is recommended to support the building on Pad foundations located at 1.5m below the existing ground level. For three storeyed structure, allowable bearing capacity for a footing (width not more than 2.5m) placed at this depth can be taken as 200kN/m^2 for a tolerable settlement of 25mm. Similarly, for the two storeyed structure, allowable bearing capacity for a footing of width not more than 2m can be taken as 175kN/m^2 for a tolerable settlement of 25mm.

Thanking you.

Yours faithfully,

Nimal W. Herath
Head, Geotechnical Engineering Division
for Director-General, NBRO.



BOREHOLE LOCATIONS FOR SOIL INVESTIGATION AT THE BIOMEDICAL ENGINEERING SERVICES
THE SERAM PLACE

LOG OF BOREHOLE

ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio Medical Engineering Services				Bore Hole BH 1				
Location : De Saram Place				ground elevation				
boring method : Wash boring		commenced on : 25.04.1991		depth of bore hole 21.38 m				
drilling mud : Bentonite		completed on : 30.04.1991		Water struck at GL - m				
				GWL on completion of bore hole GL - 2.20 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			N-value	
				1	2	3	for 30cm	graphical presentation
0.00	SM Loose, brown medium to fine grained silty sand with aggregates.							20-40
0.40								
1.00	SM Medium dense, to dense brown to black, medium to fine grained silty sand.	DS 1.00 1.45	1.00	2	10	9	19	
2.00		DS 2.00 2.35	2.00	14	32	19	>50	
				refusal to penetration				
3.00		DS 3.00 3.45	3.00	7	13	19	32	
4.00		DS 4.00 4.45	4.00	8	13	22	35	
4.50	SM Medium dense, greyish fine grained silty sand.							
5.00		DS 5.00 5.45	5.00	4	8	11	19	
5.50								
6.00	III Dense, grey, medium to fine	DS 6.00 6.45	6.00	6	16	30	46	
6.50								
7.00	SM Loose, grey medium to fine grained silty sand with plastic fines.	DS 7.00 7.45	7.00	8	5	3	8	
7.75								
8.00	III Loose, grey, medium to fine	DS 8.00 8.45	8.00					
9.00		DS 9.00	9.00	5	2	6	8	

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LOG OF BOREHOLE

ANNEXE 1

NAME OF PROJECT : Soil Investigation at the Division of Bio Medical Engineering Services					Bore Hole BH 1 Contd.					
Location : De Seram Place					ground elevation					
boring method : Wash boring			commenced on : 25.04.1991		Water struck at GL - m					
drilling mud : Bentonite			completed on : 30.04.1991		GWL on completion of bore hole GL - 2.20 m					
Depth below GL m	Classification & Description of Soil		Type and Depth of Sampling m		STANDARD PENETRATION TEST DATA					
					depth tested GL m	number of blows				
						per 15cm			N-value	
1	2	3	for 30cm	graphical presentation						
10.00	SC		DS	10.00	10.00	2	2	3	5	
10.50			-	10.45						
11.00	CH	Soft, grey high plasticity clay.	UDS	11.00	11.00					
				-	11.45					
11.50										
12.00			DS	12.00	12.00	1	0	1	1	
				-	12.68					
13.00			DS	13.00	13.00	1	0	1	1	
				-	13.52					
14.00			UDS	14.00						
				-	14.45					
14.50										
15.00	OH Pt	Medium stiff, blackish, organic clay with pockets of partially decomposed vegetation. (recovery nil)	DS	15.00	15.00	2	4	5	9	
				-	15.45					
			UDS	15.50						
				-	15.90					
16.00			DS	16.00	16.00	1	2	5	7	
				-	16.45					
16.76										
17.00	SM	Medium dense coarse to medium grained silty sand. (recovery nil)	DS	17.00	17.00	3	8	6	14	
				-	17.45					
18.00			DS	18.00	18.00	2	4	10	14	
				-	18.45					
18.95										
19.00	SM	Medium dense, to very dense, blackish with bands of white, medium to fine grained silty sand. (Highly weathered biotite gneiss rock)	DS	19.00	19.00	3	9	16	25	
				-	19.45					

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LOG OF BOREHOLE

ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio Medical Engineering Services						Bore Hole BH 1 Contd.	
Location : De Seram Place						ground elevation	
boring method : Wash boring				commenced on : 25.04.1991		depth of bore hole 21.38 m	
drilling mud : Bentonite				completed on : 30.04.1991		Water struck at GL - m	
						GWL on completion of bore hole GL - 2.20m	
Depth below GL m	Classification & Description of Soil	Type and Depth of Sampling m	STANDARD PENETRATION TEST DATA				
			depth tested GL m	number of blows			N-value for graphical presentation
				per 15cm			
			1	2	3		
20.00	SM	DS 20.00	20.00	5	11	16	27
			20.45				
21.00		DS 21.00	21.00	5	23	33	>50
						10	
21.38	Borehole terminated at 21.38m depth.		21.38	refusal to penetration			

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NAME OF PROJECT : Soil Investigation at the Division of Bio Medical Engineering Services					Bore Hole BH 2			
Location : De Seram Place					ground elevation			
boring method : Wash boring			commenced on : 30.04.1991.		depth of bore hole 22.40 m			
drilling mud : Bentonite			completed on : 06.05.1991		Water struck at GL - m			
					GWL on completion of bore hole GL 2.35 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			N-value	
				1	2	3	for 30cm	graphical presentation
0.00	SM Loose, blackish grey medium to fine grained silty sand.							0 20 40
0.75								
1.00	SM Medium dense, brownish to brownish grey, medium to fine grained silty sand.	DS 1.00 1.45	1.00	6	12	9	21	
2.00		DS 2.00 2.45	2.00	5	10	12	22	
3.00		DS 3.00 3.45	3.00	4	9	10	19	
4.00		DS 4.00 4.45	4.00	7	9	12	21	
4.50								
5.00	SM Medium dense, blackish grey, fine grained silty sand.	DS 5.00 5.45	5.00	2	7	15	22	
5.50								
6.00	SW Very dense, blackish grey, medium to fine grained sand.	DS 6.00 6.37	6.00	4	31	22	50	
6.75				Refusal to penetration				
7.00	OH Very soft blackish grey, organic clay.	DS 7.00 7.45	7.00	1	0	0	0	
7.50								
8.00	SC Loose grey, medium to fine grained clayey sand.	DS 8.00 8.45	8.00					
9.00		DS 9.00 9.45	9.00	1	2	3	5	
9.90								

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LOG OF BOREHOLE

ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio Medical Engineering					Bore Hole BH 2 Contd.				
Location : De Saram Place					ground elevation				
boring method : Wash boring			commenced on : 30.04.1991		depth of bore hole 22.40 m				
drilling mud : Bantonite			completed on : 06.05.1991		Water struck at GL - m GWL on completion of bore hole GL 2.35 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			N-value		
				1	2	3	for 30cm	graphical presentation	
10.00	SC	Dense grey, coarse to medium grained clayey sand.	DS 10.00 10.45	10.00	8	14	19	33	20 40
11.00	SP	Very dense, grey, medium to fine grained sand.	DS 11.00 11.45	11.00	20	26	34	50	
12.00	OH	Very soft, blackish grey, organic clay.	DS 12.00 12.45	12.00	1	1	1	2	
13.00	UDS		13.00 13.45						
13.50	OH Pt	Medium stiff, blackish grey, organic clay with pockets of peat.	DS 14.00 14.45	14.00	1	2	5	7	
14.50	SM	Medium dense, to very dense, grey fine grained silty sand with plastic fines.	DS 15.00 15.45	15.00	2	5	7	12	
16.00	DS		16.00 16.35	16.00	19	34	17	> 50	
16.95					Refusal to penetration				
17.00	SN	Very dense, grey, medium to fine grained silty sand.	DS 17.00 17.30	17.00	38	52	-	> 50	
17.55					Refusal to penetration				
18.00	SC	Loose, dark grey, clayey sand. (Recovery nil)	DS 18.00 18.45	18.00	1	3	5	8	
18.90	ML	Medium dense, grey, with bands of white clayey silt. (Highly weathered garnet biotite gneiss rock).	DS 19.00 19.45	19.00	2	7	14	21	

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ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio Medical Engineering					Bore Hole		BH 2 Contd	
Location : De Seram Place					ground elevation			
boring method : Wash boring			commenced on : 30.04.1991		depth of bore hole		22.40 m	
drilling mud : Bentonite			completed on : 06.05.1991		Water struck at GL		m	
					GWL on completion of bore hole		GL - 2.35 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			N-value	
				1	2	3	for 30cm	graphical presentation
20.00	SM Medium dense, to very dense, grey with thin bands of white clayey silt. (Highly weathered garnet biotite gneiss rock).	DS 20.00	20.00	4	9	15	24	20 : 40
21.00		DS 21.00	21.00	4	10	19	29	
22.00		DS 22.00	22.00	20	25	27	>50	
22.40	Borehole terminated at 22.40 meter depth.			Refusal to penetration				

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NAME OF PROJECT : Soil Investigation at the Division of Bio-Medical Engineering Services					Bore Hole : BH 03				
Location : The Seram Place					ground elevation				
boring method : Wash boring			commenced on : 07.05.1991		depth of bore hole : 19.45 m				
drilling mud : Bentonite			completed on : 09.05.1991		Water struck at GL - m				
					GWL on completion of bore hole : GL 2.15 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			N-value		
				1	2	3	for 30cm	graphical presentation	
0.00	SM	Dark brown, fine grained silty sand, with building debris. (Fill).						0	20
0.55									
1.00	SW	Loose grey medium to fine grained sand.	DS 1.00	1.00	1	1	4	5	
1.50				1.55					
1.50	SW	Loose yellow, medium to fine grained sand.	DS 2.00	2.00	2	3	4	7	
2.00				2.45					
2.50	SW	Medium dense to dense, brown medium to fine grained sand.	DS 3.00	3.00	4	8	14	22	
3.00				3.45					
4.00			DS 4.00	4.00	9	14	20	34	
4.50				4.45					
5.00	SW	Medium dense, grey fine grained silty sand.	DS 5.00	5.00	5	9	14	23	
5.50				5.45					
6.00	SW	Dense to very dense grey, medium to fine grained sand.	DS 6.00	6.00	7	20	25	45	
6.50				6.45					
7.00			DS 7.00	7.00	13	28	24	>50	
7.50				7.40			10		
8.00	SC	Loose to very loose grey medium to fine grained clayey sand.	DS 8.00	8.00	1	2	6	8	
8.50				8.45					
9.00			DS 9.00	9.00	2	1	1	2	
				9.45					

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ANNEXE I

NAME OF PROJECT : Soil Investigation at the Bio-Medical Engineering Services				Bore Hole BH 03 Contd.			
Location : The Seram Place				ground elevation			
boring method : Wash boring		commenced on : 07.05.1991		depth of bore hole 19.45 m			
drilling mud : Bentonite		completed on : 09.05.1991		Water struck at GL -- m			
				GWL on completion of bore hole GL - 2.15 m			
Depth below GL m	Classification & Description of Soil	Type and Depth of Sampling m	STANDARD PENETRATION TEST DATA				
			depth tested GL m	number of blows			N-value graphical presentation
				per 15cm			
			1	2	3	for 30cm	
10.00	SC	DS 10.00	-	-	-	-	20
10.50		10.45					
11.00	SM	DS 11.00	11.00	2	9	12	21
		11.45					
11.90		DS 12.00	12.00	5	4	3	7
12.00	OH Pt	12.45					
12.70		DS 13.00	13.00	1	1	2	3
13.00		13.45					
14.00		DS 14.00	14.40				
15.00	SM	DS 15.00	15.00	30	53	-	-
15.50		15.25			10		
16.00		DS 16.00	16.00	36	30	9	39
		16.45					
17.00	SM	DS 17.00	17.00	3	7	9	16
		17.45					
18.00		DS 18.00	18.00	7	14	22	36
		18.45					
18.55		DS 19.00	19.00	11	27	36	63
19.00	SM	19.45					
19.45		Borehole terminated at 19.45m depth.					

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NAME OF PROJECT : Soil Investigation at the Division of Bio-Medical Engineering Services					Bore Hole BH 4				
Location : The Seram Place					ground elevation				
boring method : Wash boring			commenced on : 09.05.1991		depth of bore hole 14.30 m				
drilling mud : Bentonite			completed on : 13.05.1991		Water struck at GL - m				
					GWL on completion of bore hole GL - 2.20 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			N-value		
				1	2	3	for 30cm	graphical presentation	
0.00	loose brown; fine grained silty sand with building debris (Fill).							0	
0.40	SM Loose, greyish brown medium to fine grained silty sand.							20	
1.00		DS 1.00	1.00	3	2	2	4		
1.50			1.45						
2.00	SK Medium dense, yellow medium to fine grained silty sand.	DS 2.00	2.00	6	6	10	16		
2.50			2.45						
3.00	SK Medium dense, brown medium to fine grained sand.	DS 3.00	3.00	5	11	15	26		
3.50			3.45						
4.00	SM Medium dense to dense, dark brown fine grained silty sand.	DS 4.00	4.00	8	10	18	28		
4.50			4.45						
5.00		DS 5.00	5.00	7	13	17	30		
5.50			5.45						
6.00	SK Dense, grey, medium to fine grained sand.	DS 6.00	6.00	6	14	21	35		
6.50			6.45						
7.00		DS 7.00	7.00	7	15	20	35		
7.50			7.45						
7.85									
8.00	Pt Soft, black, fully decomposed peat.	DS 8.00	8.00	1	1	3	4		
8.50			8.45						
8.95									
9.00	SC Loose, grey, medium to fine grained clayey sand.	DS 9.00	9.00	1	2	4	6		
9.50			9.45						

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ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio-Medical Engineering Services					Bore Hole		BH 4 Contd.		
Location : The Seran Place					ground elevation				
boring method : Wash boring			commenced on : 09.05.1991		Water struck at GL		-		
drilling mud : Bentonite			completed on : 13.05.1991		GWL on completion of bore hole		GL - 2.20 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			N-value	
				1	2	3	for 30cm	graphical presentation	
10.00	SC		DS 10.00	10.00	2	2	4	6	
10.50			10.45						
11.00	CH	Medium stiff, grey high plasticity clay.	DS 11.00	11.00	2	4	4	8	
11.90			UDS 11.45						
12.00			11.55						
12.00	SP	Medium dense to very dense, grey, coarse to medium grained sand with occasional sub angular gravelly size quartz.	DS 12.00	12.00	7	11	18	29	
12.00			12.45						
15.00			DS 13.00	13.00	17	40	18	>50	
15.00			13.35				5		
14.00			DS 14.00	14.00	29	51	-	>50	
14.30		Borehole terminated at 14.30m depth.	14.30						
15.00									
16.00									

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ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio-Medical Engineering Services.						Bore Hole BH 5		
Location : The Serem Place						ground elevation		
boring method : Wash boring				commenced on : 14.05.1991		depth of bore hole 19.35 m		
drilling mud : Bentonite				completed on : 16.05.1991		Water struck at GL - m		
						GWL on completion of bore hole GL 2.05 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			N-value	
				1	2	3	for 30cm	Graphical presentation
0.00	SM Loose blackish fine grained silty sand with aggregates (fill).							0-20:40
0.40								
1.00	SP Very loose to dense, greyish medium to fine grained sand.	DS 1.00	1.00	1	1	2	3	
		-						
		1.45						
2.00		DS 2.00	2.00	3	11	26	37	
2.50	SW Dense, brown, medium to fine grained sand.	-						
		2.45						
3.00		DS 3.00	3.00	10	17	25	42	
		-						
4.00	SM Medium, dense, brownish grey fine grained silty sand.	DS 4.00	4.00	8	13	19	32	
		-						
		4.45						
4.50		DS 5.00	5.00	4	6	15	21	
5.00	SM Medium dense, to dense, greyish brown medium to fine grained silty sand.	-						
		5.45						
5.50		DS 6.00	6.00	5	13	16	29	
		-						
6.00	CH Soft, light grey, high plasticity clay with traces of sand.	DS 6.00	6.00	5	13	16	29	
		-						
		6.45						
7.00		DS 7.00	7.00	14	19	25	44	
7.60		-						
		7.45						
8.00		DS 8.00	8.00	1	1	3	4	
		-						
8.45		-						
		8.45						
9.00		DS 9.00	9.00	Recovery nil				
	-							
	9.45							

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ANNEXE I

NAME OF PROJECT : Soil Investigation at the Division of Bio-Medical Engineering Services					Bore Hole		BH 5 Contd.			
					ground elevation					
Location : The Seram Place					depth of bore hole		19.35 m			
boring method : Wash boring			commenced on : 14.05.1991		Water struck at GL		m			
drilling mud : Bentonite			completed on : 16.05.1991		GWL on completion of bore hole		GL 2.05 m			
Depth below GL m	Classification & Description of Soil		Type and Depth of Sampling m		STANDARD PENETRATION TEST DATA					
					depth tested GL m	number of blows				N-value graphical presentation
						per 15cm			for 30cm	
					1	2	3			
10.00			DS	10.00	10.00	1	0	2	2	20 AD
				10.45						
				10.55						
				10.95						
11.00	CI	Soft, light grey, high plasticity clay with traces of sand.	DS	11.00	11.00	1	1	2	3	
				-						
				11.45						
11.95				-						
12.00	Pt	Black, peat.	DS	12.00	12.00	2	3	14	17	
				-						
				12.45						
12.60				-						
13.00	CH	Medium stiff, grey, high plasticity clay.	DS	13.00	13.00	1	2	4	6	
				-						
				13.45						
14.00			DS	14.00	14.00	1	1	3	4	
				-						
				14.45						
14.50				-						
15.00			DS	15.00	15.00	1	2	3	5	
				-						
				15.45						
16.00	CI	Medium stiff, light grey with thin bands of yellowish and dark grey silty clay with traces of sand.	DS	16.00	16.00	1	2	4	6	
				-						
				16.45						
17.00			DS	17.00	17.00	1	5	10	15	
				-						
				17.45						
17.25	ML	Medium dense, light grey with thin bands of yellowish and blackish clayey silt. (Highly weathered feldspathic, biotite gneiss rock).								
18.00			DS	18.00	18.00	3	5	11	16	
				-						
				18.45						
18.95				-						
19.00	SM	Very dense, dark grey with thin bands of whitish, medium to fine grained silty sand with mica. (Highly weathered feldspathic, biotite gneiss rock).	DS	19.00	19.00	17	45	20	>50	
				-						
19.35		Borehole terminated at 19.35m depth.		19.35		Refusal to penetration				

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GEOTECHNICAL ENGINEERING DIVISION
NATIONAL BUILDING RESEARCH ORGANISATION

DATE :

7. 医療機材和・英対照表

(1) 基礎機材群

ボール消毒器	Bowl Steriliser
黄疸治療器	Photo Therapy Unit
血圧計(水銀式)	Sphygmomanometer(Mercurial)
恒温水槽	Water Bath
歯科治療装置	Dental Unit
歯科治療装置、椅子	Dental Chair
煮沸消毒器	Instrument Steriliser
蒸留器	Water Distiller
新生児用体重用	Weighting Scale Infant
診察灯	Examination Lamp (Table Model)
身長体重計	Weighting Scale with H/Measure
蘇生バック	Ambu Bag
大型煮沸消毒器	Sterilising Drum
吸引器	Suction Unit Double Jar

(2) 専門機材群

オーディオメータ	Audiometer
ドップラ胎児心拍検出装置	Foetal Heart Detector
トレッドミル	Tread Mill
筋電計	Electromyograph (EMG) Recorder
除細動装置	Defibrillator Monitor
心電監視装置	Electrocardiograph (ECG) Monitor
心電計	Electrocardiograph (ECG) Recorder
心電中央監視装置	Electrocardiograph (ECG) Central Monitor
脳波計	Electroencephalograph (EEG) Recorder
胎児心音計	Foetal Heart Monitor
短波治療器	Shortwave Therapy Unit
超音波治療器	Ultrasonic Therapy Unit
超音波診断装置	Ultrasound Scanner
超短波治療器	Microwave Therapy Unit
低周波治療器/連続パルス	Muscle Stimulator (Pulse, Continuous)
低周波治療器(神経)	Nerve Stimulator
電解質分析装置	Na/K Electrolyte Analyser
血液ガス分析装置	Blood Gas Analyser
酸素濃度計	Oximeter

肺機能試験器	Lung Function Tester
保育器	Infant Incubator
輸液ポンプ(注射器用)	Infusion Pump (Syringe Type)
パラフィン溶融器	Wax Bath
ふ卵器	Laboratory Incubator
マイクロトーム	Microtome
炎光光度計	Flame Photometer
遠心分離機	Electric Centrifuge
黄疸測定器	Bilirubinometer
乾熱滅菌器	Hot Air Steriliser
血球計数機	Blood Cell Counter
牽引療法装置	Traction Machine
顕微鏡(双眼)	Binocular Microscope
自動分析機	Auto Analyser
縦型滅菌器	Vertical Autoclave
水素イオン濃度計	PH Meter
赤外線灯	Infra Red Lamp
組織抱埋ユニット	Tissue Embedding Unit
組織抱埋装置	Tissue Processor
電気泳動装置	Electrophoresis Unit
電子天秤	Electronic Balance
電光比色計	Colorimeter
分光光度計	Spectrophotometer
エアーターピンハンドピース	Air Rotar Hand Piece Scale
スリットランプ	Slit Lamp
移動型無影灯	Theatre Lamp Mobile
加湿吸入器	Nebuliser
吸引分娩器	Vacuum Extractor
血圧計付麻酔器	Anaesthetic Major with Sphygmomanometer
酸素テント	Oxygen Tent
電気メス	Electrosurgery Unit
手術台	Operation Theatre Table
手術用顕微鏡	Operating Microscope
小型麻酔器	Anaesthetic Unit
新生児用吸引器	Infant Suction Unit
新生児用人工呼吸器	Infant Respirator
人工呼吸器	Ventilator
人工呼吸器付麻酔器	Anesthetic Ventilator

整形外科器具付き手術台	O/T Table/Orthopaedic Attachment
石膏用電動鋸	Plaster Cast Cutter
高圧滅菌器	High Pressure Steriliser
卓上滅菌器	Autoclave Table
超低温冷凍庫	Ultra Low Freezer
直腸鏡	Sigmoidoscope
特殊冷蔵庫	Refrigerator
無影灯	Theatre Lamp (Ceiling Type)
膀胱鏡	Cystoscope
腹腔鏡	Laparoscope
関節鏡	Arthroscope
フィルム乾燥器	Film Drying Cabinet
フィルム現像器(手動式)	Film Processing Unit (Manual)
移動式C-アーム放射線透視装置	Mobile X-ray C-Arm
移動式放射線撮影装置	Mobile X-ray Unit
診断用放射線撮影装置	Basic X-ray
蛍光増管透視装置	Fluoroscopic I. I. Unit
歯科放射線撮影装置	X-ray Unit Dental
自動現像機	Film Auto Processor
透視付放射線装置	X-ray Unit with Fluoroscopy
屍体冷蔵庫	Mortuary Coller

(3) 高性能機材群

カラードップラー超音波診断装置	Colour Doppler
ホルター心電解析装置	Holter Monitor
運動負荷試験装置	Stress Testing Unit
人工心肺装置	Heart Lung Machine
人工透析装置	Dialyser Unit
ガンマカメラ	Gamma Camera
コバルト放射線治療機	Cobalttherapy Unit
コンピュータ断層診断装置	C/T Scanner
血管造影撮影装置	Angiography Unit
胃ファイバースコープ	Gastroscope Fiberoptic
気管支ファイバースコープ	Bronchoscope
食道鏡	Oesophagoscope

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